ARUP

BAM Nuttall Limited

Victoria North Infrastructure Works

Ground Investigation Interpretative Report

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P03 | 23rd November 2022

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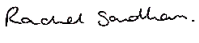
Signature			

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Executive Summary – HIF Infrastructure Works

General

Ove Arup and Partners Ltd (Arup) has prepared this report for BAM for the HIF Infrastructure Works (HIF IW) at the Victoria North site. The report builds on a previous desk study assessment and a preliminary ground investigation interpretative report to present an interpretation of several phases of ground investigation.

The planning application site

The main area of the site is the Red Bank Plateau which was constructed by filling during the late 1800s to create railway sidings. From the plateau, wooded slopes (St Catherine's Wood) extend down to the banks of the River Irk. Along the northern boundary, slopes extend down towards the adjacent P&P site. The plateau is separated from the Red Bank Terrace area to the south by a slope (circa 9m high). Red Bank Terrace area is generally flat and currently occupied by a variety of commercial operations.

Ground conditions

Variable made ground between 9.3m and 16.5m thick is present beneath the majority of the planning application site. Underlying the made ground, alluvium is present at depths up to 7mbgl, close to the River Irk with glacial till in areas away from the river. Underlying bedrock includes Chester Pebble Beds, Manchester Marls and Collyhurst Sandstone. The depth to bedrock ranges from 16m beneath Red Bank Plateau to 1.8m bgl in St Catherine's Wood.

Groundwater was encountered beneath the site at varying depths. It is likely that groundwater in the made ground is perched on relict structures or on underlying cohesive deposits. Groundwater in alluvial deposits and bedrock is likely to be in continuity with the river.

Geotechnical considerations

There is a potential for buried obstructions including former basements, foundations, walls and utilities within the made ground [37]. There is also potential for localised voids within the made ground, (Section 3.6.8). Made ground may contain soft spots. Localised near surface soft spots may also be associated with alluvium or other natural superficial deposits.

The made ground, glacial till and alluvium are unlikely to provide sufficient strength for shallow building foundations. Use of bored piles is recommended, socketed into the underlying bedrock. The use of suspended floor slabs should be assumed.

The existing plateau slope is oversteep with gradients from approximately 1 in 1.6 to 1 in 2. Regrading to a suitable stable gradient is required to achieve Eurocode 7 compliant standards [38].

Monitoring data available from borehole inclinometers in the P&P slope area indicates possible, but inconclusive, evidence for movement of the slope[10]. This existing data requires validation and further monitoring is needed before firm conclusions can be reached.

New retaining walls will be required in some locations, potentially founded on variable made ground or weak/compressible superficial soils. This will need to be taken into account when assessing stability and settlement of the walls.

A number of existing retaining walls exist within, or form the boundaries of, the planning application site. Once development proposals have been confirmed, the stability of existing walls affected by the development should be assessed.

Cut and fill earthworks will be required to remove existing obstructions and create development platforms. Most of the material excavated will be made ground. A proportion of this material is likely to be suitable for use as general fill within the site works; some processing will be required. It may be necessary to send unsuitable or surplus material off-site for disposal, and depending on cut/fill balance, imported engineering

fill may be required to meet any shortfall in site-won material (Drg VNIF-BNL-ZZ-YYY-DR-CE-0001). Imported fill may be required for specific applications.

Once subsequent development proposals are agreed, assessments of the likely settlement/heave magnitude and timescales will be required for any areas where ground will be changed. Movement monitoring may be required depending on the outcome of assessment and the implications on design.

Excavations in made ground and glacial till are likely to encounter perched groundwater which will require appropriate management. Note that groundwater in alluvium may be in continuity with surface water and/or groundwater in the underlying solid strata.

An assessment of the potential for aggressive ground conditions to result in the degradation of buried concrete has been undertaken. The available data indicates that for the design of buried concrete in made ground, a design class for concrete of DC-3 should be specified based on AC-3s conditions, with an assumed design sulphate value of DS-4. For the design of buried concrete in other strata, DC-1 and AC-1s conditions should be assumed.

Geoenvironmental considerations

Soils

Potential risks to human health and the environment have been assessed on a source-pathway-receptor basis. Potential risks to construction workers, site users and neighbours have been identified associated with contaminants in the made ground, contaminants in parts of a former gasworks and the presence of asbestos fibres. Volatile contaminants are generally absent.

Potential contaminant linkages in the construction phase can be addressed by adopting appropriate mitigation measures, working methods, and where necessary, provision of appropriate PPE.

There is not considered to be a risk to future site users where re-used made ground is located beneath hardstanding.

In areas of soft landscaping on Red Bank Plateau, a risk to future site users could arise from exposure to made ground soils (either in-situ or re-used as fill). Appropriate mitigation measures will need to be applied to protect against this risk. The majority of the potential contaminant linkages will be addressed by the adoption of appropriate measures as part of the HIF Infrastructure works or during the development of the site.

The human health risk associated with identified soil contaminants (including asbestos) in the Red Bank Terrace and St. Catherine's Wood areas of the site, is considered to be low. The provision of clean cover soils (topsoil and subsoil) set out in the Landscape Specification [3] is considered to address the identified risks.

Controlled waters

Screening has identified a range of potential contaminants in groundwater samples, and potential pollutant linkages between specific contaminated areas and groundwater. A detailed quantitative controlled waters risk assessment have been undertaken which is reported separately.

Hazardous ground gas

On the basis of the available data, CS2 conditions should be assumed for the development of the site. In an infilled former reservoir, localised CS3 conditions have been identified, however, this is outside the proposed development plots. If development layouts change, localised CS3 conditions may need to be adopted and appropriate gas protection measures provided.

Future developers should conduct their own assessment of ground gas risk and, if appropriate, undertake additional gas monitoring.

Excavation arisings

For disposal, preliminary WAC analysis and hazardous waste assessments indicate that a significant proportion of the material may be classified as non-hazardous waste and meets the requirements for disposal at inert waste landfills.

Remediation measures

The following recommendations are made:

- Removal of the remains of former rail infrastructure. Once excavations are complete, these areas will need to be validated and will require reinstatement.
- At grade areas and areas of proposed fill within the Red Bank Plateau and Red Bank Terrace areas are to be turned over to an average depth of 500mm to identify and remove relic structures and other potential obstructions to development. Remove obstructions to a depth of 2.0m below existing ground level. Survey and record any residual obstructions extending to depth greater than 2.0m.
- Geotechnical and geoenvironmental testing and assessment will be required during earthworks, in accordance with the requirements of a verification plan, to confirm that site won materials are suitable for re-use.
- As detailed in the Landscaping Specification and excluding areas in which existing trees and vegetation are to be preserved, place suitable thickness of clean cover soils (topsoil and sub-soil) to break pathways between made ground soils and users of the site in areas of landscaping.
- Temporarily cover areas of exposed made ground remaining on completion of the HIF Infrastructure Works, with 100mm of suitable clean material.

Recommended further works

It is recommended that a number of remaining data gaps are addressed as follows:

- Settlement monitoring instrumentation should be installed beneath the proposed access road embankment and monitored to validate settlement calculations for the soils underlying the proposed earthworks.
- Continue monitoring existing inclinometer installations and undertake further assessment of the data to verify whether ground movement is occurring.
- Further gas monitoring is recommended in some areas of the site, to further assess ground gas risks.
- Sampling of fly-tipped material and river sediment, to determine waste disposal options.
- Further investigation and appropriate treatment of a shallow shaft encountered in BH308.

1. Introduction

1.1 Context

Manchester City Council (MCC) has appointed BAM Nuttall Ltd (BAM) to design and construct the Victoria North Infrastructure Works which will be funded by the Homes England Housing Infrastructure Fund (HIF). Ove Arup and Partners Ltd (Arup) has prepared this report on behalf of BAM. The proposed development is part of the wider Victoria North Strategic Regeneration Framework (SRF) redevelopment to the north of Manchester city centre. The Infrastructure Works are being carried out to support a subsequent residential led development being planned by a Joint Venture of Manchester City Council (MCC) and the Far East Consortium (FEC).

The HIF Infrastructure Works comprise enabling works to create several plots for development, accessed via both existing highways and new highway connections, together with new utility and services connections, remediation and earthworks, demolition of existing structure and the provision of green infrastructure including the creation of green links and the first phase of the new City River Park. Although not part of the HIF Infrastructure Works delivery, the proposed future development of the site will be a combination of residential, public open space and some retail and commercial development.

1.2 Objectives

Drawing on the findings of a 2019 Arup Desk Study [1] and a preliminary ground investigation interpretative report [2], this ground investigation interpretative report (GIR) presents an interpretation of several intrusive investigations that have been undertaken within and adjacent to the planning application site, with particular focus on investigations specified by Arup and undertaken in 2019, 2021 and 2022.

This GIR provides an understanding of the implications of ground conditions for development, including issues associated with ground stability, constraints associated with previous development, together with an assessment of risks associated with soil and groundwater contamination and ground gas. This understanding is required to inform the design of future remediation and development of the site.

This GIR is also intended to support a planning application for the HIF Infrastructure Works (IW).

1.3 Scope of report

The scope and structure of this report is outlined below:

- A synopsis of the desk-based information concerning the site and the environmental setting (Section 2).
- Review of the previous ground investigations including the 2022 GI (Section 3).
- A description of the ground conditions encountered, and the ground model that has been developed by Arup (Section 4).
- An evaluation of geotechnical parameters, material properties and groundwater conditions (Section 5).
- An evaluation of the soil and groundwater contamination (Section 6).
- An evaluation of the ground gas data and risk assessment (Section 7).
- Identification and discussion of geotechnical constraints to development (Section 8).
- Discussion of contamination-related and geoenvironmental constraints to development and presentation of an outline strategy for remediation to address the constraints (Section 9).
- Conclusions of the geotechnical and geoenvironmental assessments and recommendations for additional works (Section 10).

1.4 Use of report and limitations

This report was prepared by Arup on behalf of BAM. It takes into account our client's particular instructions and requirements. This report is not intended for and should not be relied on by any third party, and no responsibility is undertaken to any third party in relation to it.

All reasonable skill, care and diligence have been exercised within the timescales available and in accordance with the technical requirements of the brief. Notwithstanding the efforts made by the professional team in preparing the report, it is possible that other ground contamination or ground conditions as yet undetected, may exist and consequently reliance on this report must be limited accordingly.

Version P01 of this report was developed using preliminary and/or partially complete ground investigation data. Version P02, addressed comments received from third parties and incorporated additional factual data obtained during the 2022 ground investigation and received ahead of the final factual report. This version, P03, addresses a number of further comments received from third parties and has been issued following validation of the factual report for the 2022 ground investigation [10].

2. Proposed development and site setting

2.1 Site extent and site areas

The planning application boundary of the site is shown outlined in red on Figure 1, together with the current HIF Infrastructure Works masterplan. As shown on Figure 1, the site is bounded to the east and south-east by the River Irk. In the west, it is bounded by Red Bank (a public road) and the rear of existing commercial property off Honey Street and Collingham Street. In the north-east, it is bounded by an historical pedestrian railway bridge.

Figure 1: The Victoria North site.

As shown on Figure 2, the site has been divided into the three areas listed below:

- Red Bank Plateau.
- Red Bank Terrace.
- St Catherine's Wood.

Figure 2: The site areas.

2.2 Proposed HIF Infrastructure Works development

The HIF IW proposals will be submitted as a full planning application to MCC and will comprise:

- Earthworks and remediation to create suitable development platforms;
- The construction of new internal access roads;
- New utility and services connections;
- Provision of green infrastructure including green links and the first phase of a new city river park.

Ultimately, the site is to be developed for a predominantly residential use with landscaped areas of public open space. The proposed follow-on development in each of the three site areas is as follows (Figure 2):

- **Red Bank Plateau**. The current masterplan indicates that this will be the focus of proposed residential development within the site. Some local public open space (POS) development will be included within the generally residential development of this area.
- **Red Bank Terrace**. This area is to be predominantly formal public open space with planted areas, connecting footpaths and cycleways and areas of public realm.
- **St Catherine's Wood**. The current masterplan indicates that this area will be generally non-residential, with a school proposed in the north of the area (Plot RB05b) and areas of public open space elsewhere. Outside Plot RB05b, existing vegetation is to be preserved as fully as possible with limited areas of enhancement to facilitate the proposed POS use, including planted areas, connecting footpaths and cycleways and areas of public realm.

The follow-on developments on the plots prepared by the HIF IW, including residential and school developments, will be subject to separate planning applications.

Table 1 identifies the correspondence between the proposed development plots (Figure 1) and the development zones (Figure 2).

Table 1: Plots in each development area

Area	Planned Development	Development Plots
Red Bank Plateau	To be developed principally for residential purposes.	RB01, RB02, RB03, RB04, RB05a, RB05c and RB12b.
Red Bank Terrace	To be developed as formal public open space.	
St Catherine's Wood	To be developed for non-residential purposes – a school and public open space.	Plot RB05b (school) and public open space.

2.3 Topography

The topography of the site and adjacent areas has been interpreted from both publicly available LiDAR data [4] and topographic survey drawings produced in September 2021 by Paragon Surveys Limited. Topographically, the area is centred on the valley of the River Irk, with the topographical low represented by the river channel. The River Irk flows from north-east to south-west through the area, with water levels between c. 29.5mOD to 26.6mOD.

The most elevated area of the site is the former Creamline Dairies site (Plot RB12b - Figure 1), with ground levels at c. 45.5m AOD. The Creamline Dairies site is separated from the Red Bank Plateau by a c. 5m high retaining wall (Retaining Wall 1 - Figure 3), with ground levels across the approximately 500m long Red Bank Plateau, ranging from 40.3m AOD in the south west to c. 43.4m in the north east.

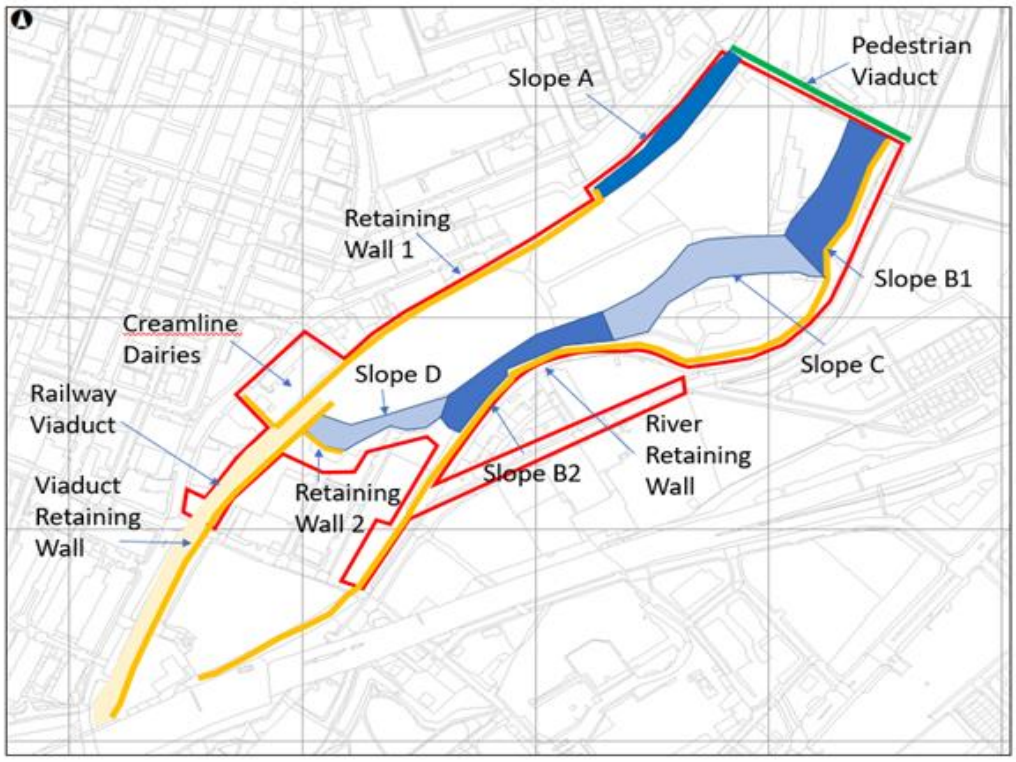

Figure 3: Key site features including retaining walls and slopes

The majority of the boundary between Red Bank Plateau and St Catherine's Wood (Figure 2) is marked by the crest of a series of steep slopes (Slopes B1, B2 and C, Figure 3), which are generally between 9m and 13m high and locally approach gradients of 1v to 1.6h (Slope B2). The exception to this is in the north of St Catherine's Wood adjacent to Slope B1, where Plot RB05b is proposed. Ground levels across plot RB05b vary between c. 43m AOD in the south to c. 41.5m AOD in the north (over a distance of approximately 100m).

The steep slopes in St Catherine's Wood generally descend to the banks of the River Irk, at levels of c. 31m AOD in the north-east and c. 29m AOD in the south-west. In the areas adjacent to Plots RB04 and RB05c however, Slope C (Figure 3) descends initially to a wide, flat area at a level of c. 33m, descending to c. 30m AOD at the retaining walls that line the river channel.

The boundary between Red Bank Plateau and Red Bank Terrace (Figure 2) is also marked by the crest of a slope (Slope D, Figure 3), which descends from c. 40.5m to 31m AOD. The gradient of this slope is generally in the order of 1 in 2.5. In areas along the toe of this slope, sections of masonry wall can be seen (Retaining Wall 2, Figure 3). Ground levels across Red Bank Terrace are in the order of 32m AOD in the north-east, falling to c. 29m AOD in the extreme south-west. The western boundary of the site that runs adjacent to existing public highway however, is marked by a disused section of railway viaduct, some 7m high, which formerly connected Victoria Station to Red Bank Plateau (Viaduct Retaining Wall, Figure 3). The top of the viaduct is at c. 39m AOD.

2.4 Description of site areas

2.4.1 Red Bank Plateau

The Red Bank Plateau area is situated in the north and north-west of the site (Figure 2). Historically, the following features were located within this area (Figure 4):

- The northern of two former reservoirs.
- Part of a southern former reservoir.
- The north-western section of a former meander bend of the River Irk.
- The north-western most section of a former mill race.

These features are now buried beneath the fill used to construct Red Bank Plateau, which was placed in the late 1800s.

Until c. 1989 the area was occupied by extensive railway sidings and associated infrastructure, including a carriage shed, turntables and small gasworks (Figure 4). Following the suspension of rail operations at the site and the removal of most elements of rail infrastructure, large areas of Red Bank Plateau have become extensively vegetated, particularly in the south-west.

Approximately 175m of the north-western boundary is marked by a cut slope up to approximately 7m high, which on the basis of the current ground model is likely to have been excavated in glacial till (Slope A, Figure 3). The gradient of this slope is approximately 1v to 3h with the off-site areas standing above Red Bank Plateau. From the south-eastern end of Slope A, a c. 4m high brick retaining wall supports the elevated off-site areas, including Plot RB12b, which until recent demolition works, was occupied by Creamline Dairies.

Currently, the only vehicle access onto the Red Bank Plateau is from Collyhurst Road via a bridge over the River Irk (the P&P bridge). Development proposals include the provision of new site access off the existing public highway at Red Bank. This proposed access will descend in shallow cutting through the former Creamline Dairies site, passing through Retaining Wall 1 (Figure 3) at approximately mid-height before descending on a low embankment to the Red Bank Plateau.

The north-eastern Site boundary is marked by a masonry pedestrian viaduct constructed in the late 1800s (Figure 3). This viaduct stands some 9m above ground levels across Red Bank Plateau and from its south-east end, descends first via a series of steps and then via a sloping footpath to the River Irk.

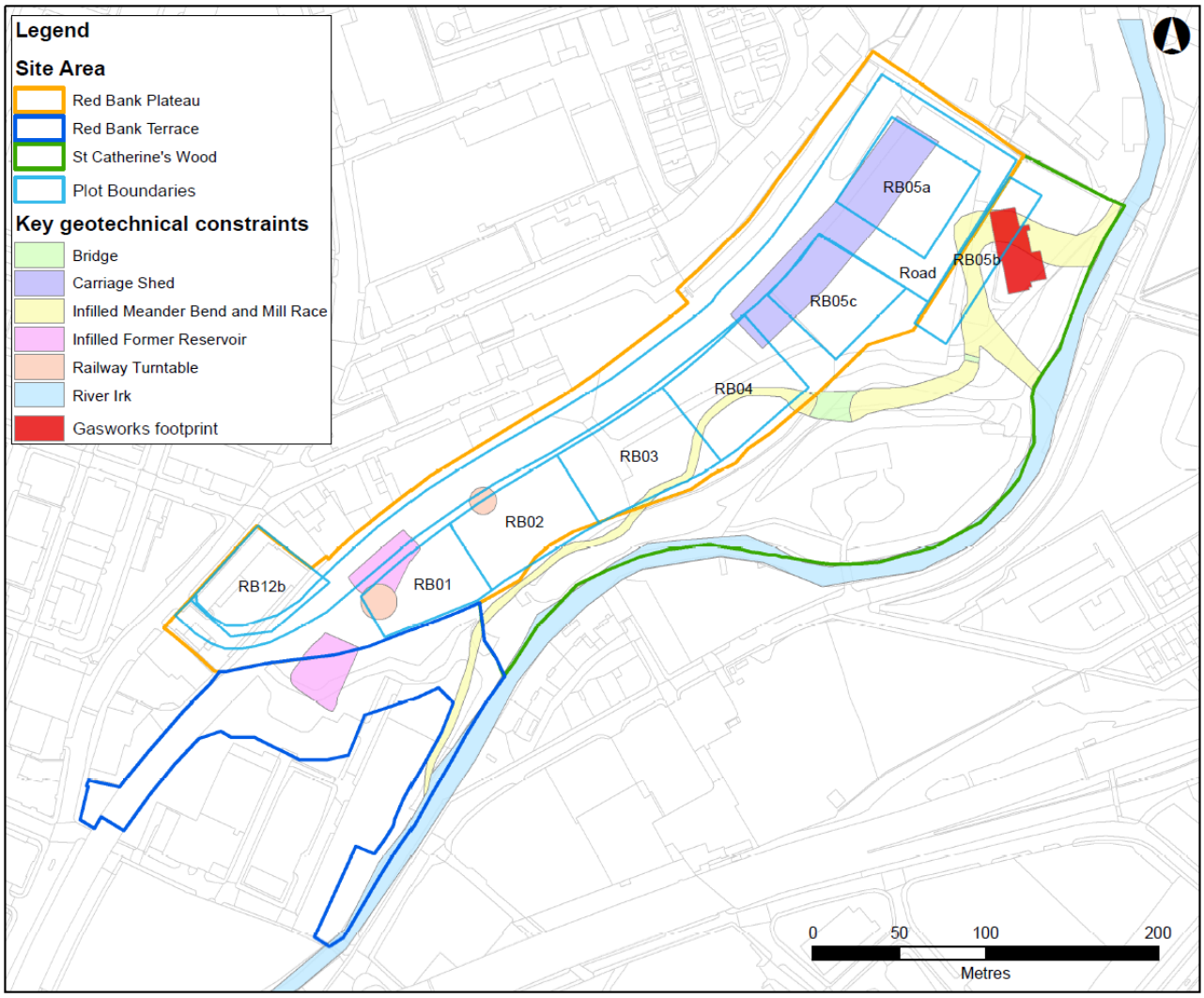

Figure 4: Key historical features

2.4.2 Red Bank Terrace

Red Bank Terrace is relatively flat-lying (c. 30m AOD - Figure 2). Historically, the most southerly of two former reservoirs was located partly within this area, as well as the downstream stretch of the former mill race (Figure 4). The area has historically been occupied by various buildings and industries, including residential areas, chemical works, dye works, and a fireproof plate works. It is currently occupied by multiple independently owned car parking businesses, a taxi service, a joinery warehouse, dry cleaners, and food warehouse. Roger Street passes under the disused railway viaduct (Figure 3) which marks the north-western boundary of the Red Bank Terrace area.

The boundary between Red Bank Plateau and Red Bank Terrace consists of heavily vegetated slopes (Slope D, Figure 3) formed from fill materials placed as part of the former rail infrastructure development on the plateau. The lower sections of these slopes appear to have been supported by a masonry retaining wall or the remains of partly demolished buildings (Retaining Wall 2, Figure 3) however the alignment and condition of this masonry are largely obscured by vegetation and more recently placed fill materials.

2.4.3 St Catherine's Wood

Historically this area was occupied by a meander bend of the River Irk and sections of the former mill race (Figure 4). In addition, a corn mill (later starch and size mill), dye works, church, terraced housing and a school were all present in this area of the site until the early 1970s. Any remains of these historic features will lie at the base of the made ground that was used to construct Red Bank Plateau. During rail operations at the site, a small gasworks was built on the top of the plateau.

Today, the site is largely woodland with evidence of occasional fly tipping and limited areas of public footpath.

Steep slopes, generally with extensive tree cover, descend through the St Catherine's Wood area. There are however, two generally flat parts within this area:

- A lower-lying area extending from the foot of Slope C (Figure 3) to the channel of the River Irk.
- At higher level, a flat plateau which is proposed for school development (Plot RB05b).

2.5 Historical land use

The site history is discussed in the Ground Conditions Desk Study Report [1] issued in August 2019. The site history is not discussed in detail in this report, but summaries of the historical use and development have been provided in Section 2.4.

2.6 Published geology and hydrogeology

2.6.1 Superficial deposits

The 1:50,000 scale geological map indicates that glacial till underlies the area south-east of the River Irk and along the north-western site boundary (Figure 5). Although not indicated on published geological maps, ground investigation has established the presence of alluvial deposits in association with the River Irk.

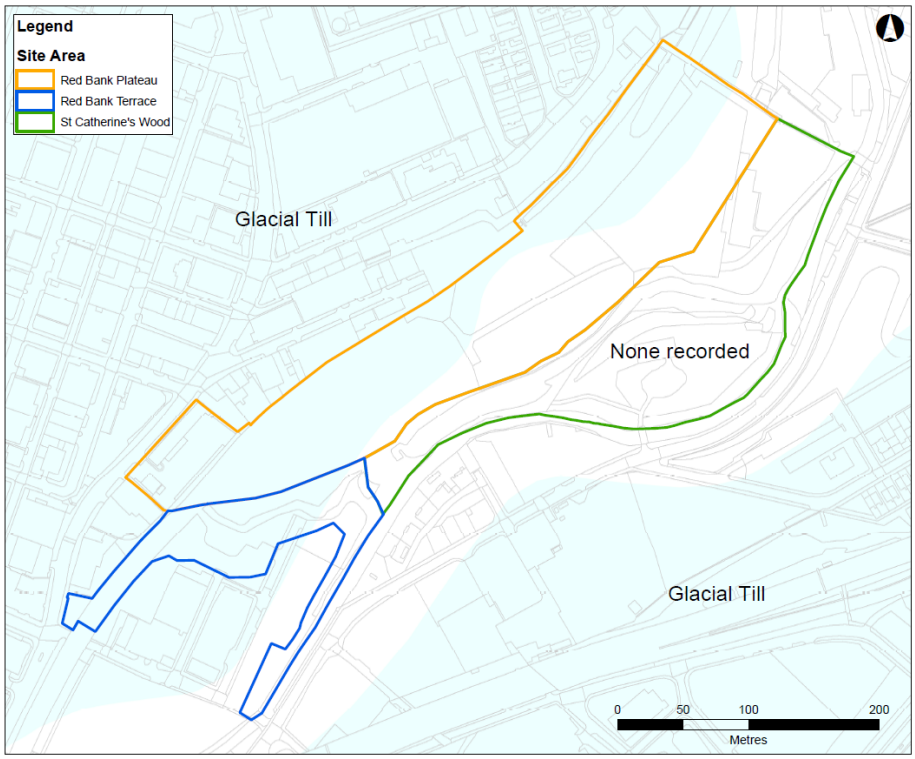

Figure 5: Superficial geology from 1:50,000 scale BGS map

2.6.2 Solid geology

Published sources of information indicate that the solid geology varies from east to west across the site, with the Chester Pebble Beds Formation in the west, Manchester Marls Formation in the centre of the site and the Collyhurst Sandstone Formation in the north-east (Figure 6). All three units are reported to be gently dipping (5 degrees) SSW.

A fault, trending NNW-SSE, cuts across the centre of the site, within the Manchester Marl Formation. The BGS map indicates that this is a normal fault, downthrown to the west, with limited displacement.

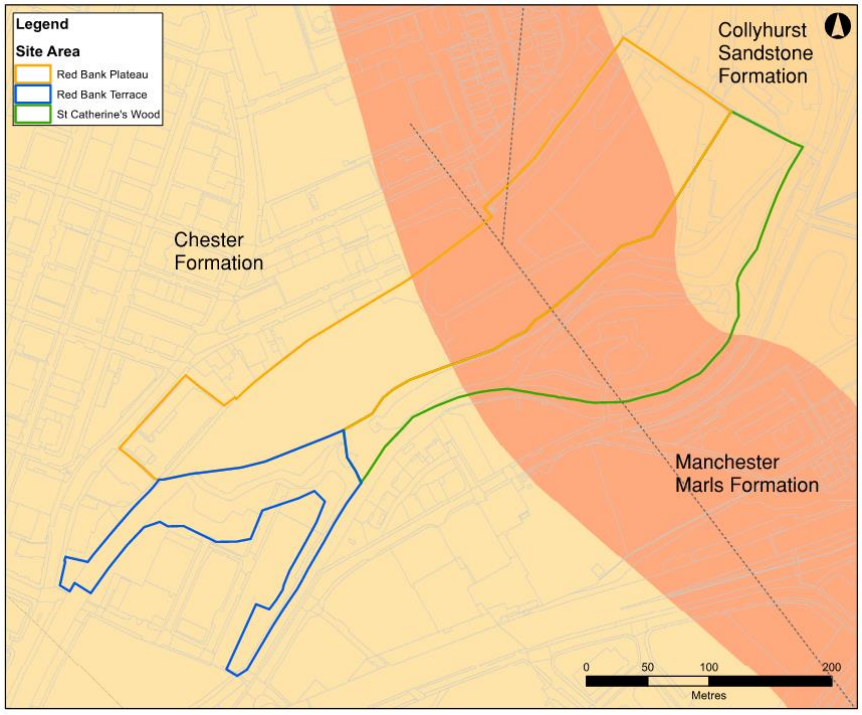

Figure 6: Bedrock geology and linear features taken from 1:50,000 scale BGS map

2.6.3 Hydrogeology & hydrology

The aquifer designations underlying the site and adjacent areas are discussed in the desk study report [1]. Alluvium is mostly classified as a secondary (A) aquifer and glacial till deposits as a secondary (undifferentiated) aquifer. Secondary aquifers are defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

The Manchester Marl is classified as a secondary (B) aquifer (lower permeability layers), whereas the Chester Pebble Beds Formation and Collyhurst Sandstone Formation are classified as principal aquifers. Principal aquifers are defined as strata of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale.

The BGS Hydrogeology map [5] describes the Manchester Marl as confining groundwater in the Collyhurst Sandstone. The Manchester Marl may act as a barrier to groundwater flow and the Collyhurst Sandstone and Chester Pebble Beds are likely to be separate aquifer units.

No Source Protection Zones are located within 500m of the site. No licensed groundwater or surface water abstractions are located within the site boundary, but there are three active abstraction licences located within 500m of the site boundary:

Abstraction reference	Distance from boundary	Purpose
Packaging Products Ltd, Collyhurst	270m north-east	General cooling
Derby Brewery, Cheetham	400m north-west	General cooling
Derby Brewery, Cheetham	400m north-west	Process water

The River Irk is classed as a heavily modified water body (HMWB) in recognition of physical modifications by human activity. The river is canalised through the majority of the site. The Irk currently has an overall status of ‘moderate’ with an ecological potential of ‘moderate’ and a chemical status of ‘fail’. The reasons for not achieving ‘good’ status within the Irk catchment include ammonia due to continuous sewage discharges and diffuse sources including land contamination and landfill leachate, and phosphate due to sewage discharges and urban development [6].

3. Ground investigations

3.1 Overview

A number of intrusive ground investigations (GI) have been undertaken within the site and adjacent areas. A summary of these investigations is presented in the desk study report [1]. Although the historical ground investigations are not discussed further in this report, relevant data from these investigations has been used as appropriate, when assessing ground conditions at the site.

Three recent phases of ground investigation were specified by Arup on behalf of FEC:

- Phase One undertaken in 2019 by Allied Exploration and Geotechnics Limited (AEG)
- Phase Two undertaken in 2021 by Allied Exploration and Geotechnics Limited (AEG)
- Phase Three undertaken in 2022 GI by BAM Ritchies.

The exploratory holes locations are illustrated in Drawing 01. Phase 1 holes are 100 series, phase 2 holes are 200 series, phase 3 holes are 300 series (e.g. BH101, BH201, BH301). The positions of the gas and groundwater monitoring installations are presented in Drawing 02.

3.2 2019 ground investigation

Phase one, undertaken during January 2019, to provide high-level information on ground conditions both within and adjacent to the site. This would inform an initial cost plan for the proposed development. The findings of the investigations were presented in a factual report produced by AEG [7].

The investigation included:

- Ten cable percussion boreholes;
- Twenty-one machine excavated trial pits;
- Seven windowless sample holes;
- In-situ standard penetration and hand shear vane testing;
- Geotechnical and specialist chemical sampling;
- Installation of gas and groundwater monitoring instrumentation; and
- Groundwater monitoring, sampling and associated water quality parameter testing.

No rotary drilling was conducted as part of this work therefore penetration into rockhead was limited and no ground gas monitoring was carried out. Groundwater monitoring was undertaken in seven installations between 7th and 24th January 2019 on up to four occasions.

An interpretation of the 2019 data was provided in the Desk Study Report [1].

3.3 2021 ground investigation

The phase 2 GI was undertaken in 2021 to provide greater understanding of a number of abnormal ground conditions that had been identified and to support a future planning application for development. The rationale for the 2021 GI is in included in Appendix A.

The ground investigation was carried out by AEG between 22nd March and 20th April 2021. The works were supervised by AEG with part-time site attendance by Arup. The findings of the investigations are presented in a factual report produced by AEG [8].

The fieldwork consisted of:

- Seventeen boreholes advanced using cable percussion methods;
- Six cable percussion boreholes were advanced into bedrock using rotary coring methods;
- Eighteen window sample boreholes;
- Twenty-three mechanically excavated trial pits;
- Six horizontal concrete cores into the Red Bank Plateau retaining wall;
- In-situ standard penetration, hand shear vane, photo-ionisation detector, TRL cone penetrometer, hand penetrometer, water quality parameter and mexeprobe testing;
- Geotechnical and specialist chemical sampling;
- Installation of gas and groundwater monitoring instrumentation;
- Post site groundwater and surface water monitoring, sampling and associated water quality parameter testing.

A groundwater and soil-gas monitoring programme was also undertaken from twenty locations between 11th May and 10th August 2021, with groundwater samples recovered for laboratory analysis on two separate occasions.

3.4 2022 ground investigation

The phase 3 GI was undertaken to address the recommendations presented in the preliminary ground investigation interpretive report [2]. These recommendations included:

- Trial trenches around the gasworks to delineate contamination identified during the 2021 GI, with monitoring of groundwater quality downgradient of the gasworks.
- Boreholes along existing slopes to refine the ground model for slope stability assessments. Inclinometers installed to monitoring ground movements.
- Boreholes to confirm ground conditions along the river for both stability and controlled waters risk assessment
- Boreholes at proposed bridge locations to inform the design.
- A number of boreholes located to provide further data on the depth to engineering rockhead to validate current interpretation and to fill data gaps.
- Additional GI to fill more general gaps in spatial coverage across the site (i.e. where exploratory holes from previous GIs are widely separated).
- Borehole infiltration tests in selected installations in areas where made ground is thin and absent to investigate the feasibility of incorporating soakaways into the site drainage system.
- Additional geotechnical sampling and testing in areas of proposed excavation to confirm suitability of arisings for re-use.
- Additional geoenvironmental soil sampling and analysis across the site to validate conclusions reached in the previous GIR and in detailed quantitative controlled waters risk assessment that was recommended.
- Selected boreholes were to be provided with groundwater monitoring installations (to complement existing serviceable installations), with monitoring to confirm hydraulic gradient across site.
- Selected boreholes were to be provided with ground gas monitoring installations (to complement existing serviceable installations), with monitoring to confirm ground gas conditions particularly during periods of low atmospheric pressure.

- Sampling of groundwater from installations for analysis plus additional leachability testing of soil samples.
- Sampling of shallow made ground along main potable water corridors with relevant analysis, to allow requirements for potable supply pipe to be determined.
- Surface water sampling and analysis from the river to assist with further controlled waters risk assessment.
- Sampling and analysis from stockpiles of fly-tipped material within the site and from sediment and other accumulations in the river, to determine waste disposal options.

All selected analysis suites were to reflect the previous relevant recorded uses of the site, making reference to relevant DoE Industry Profiles [9]. The rationale used to design the 2022 GI is included in Appendix A.

The phase 3 GI was carried out by BAM Ritchies between 14th February and 1st April 2022. The works were supervised by BAM Ritchies with part-time site attendance by Arup. The findings of the investigations are presented in a factual report produced by BAM Ritchies [10].

The fieldwork consisted of:

- Seventeen cable percussion boreholes;
- Two cable percussion boreholes extended from rockhead using rotary coring methods;
- Nine window sample holes;
- Seven trial pits;
- Four trial trenches;
- Four observation pits along the viaduct retaining wall;
- Standard penetration tests, hand shear vane, hand penetrometer, TRL cone penetrometer, mexeprobe testing, photo-ionisation detector, and in-situ water quality determinations for a number of parameters;
- Infiltration tests in selected boreholes,
- Geotechnical and chemical sampling and testing,
- Gas, groundwater and inclinometer instrumentation;
- groundwater and surface water monitoring, sampling and quality testing; and
- A groundwater and soil-gas monitoring programme from 42 locations, including installations from previous phases of ground investigation.

The 2022 monitoring programme commenced on 26th May and at the time of writing, five of the six proposed monitoring visits have been completed. During this monitoring programme, groundwater samples were recovered for laboratory analysis on two separate occasions.

3.5 Summary of the 2019, 2021 and 2022 Ground Investigations

3.5.1 Exploratory holes

A summary of the fieldwork undertaken in 2019, 2021 and 2022 within each of the site areas is presented in Table 2.

Table 2: Ground investigation summary

Ground investigation	Site area	Exploratory hole type*	No.	Min depth (mbgl)	Max depth (mbgl)
2019	Red Bank Plateau	CP	5	7.8	15.0
		TP	11	1.8	4.5
	Red Bank Terrace	CP	3	4.3	11.3
		TP	4	3	3.7
	St Catherine's Wood	TP	2	3.8	4.5
		WS	3	3.9	5.5
2021	Red Bank Plateau	CP	5	6.8	16.1
		CP+RC	4	9.3	19.6
		TP	17	0.6	4.5
		WS	11	0.8	8.2
	Red Bank Terrace	CP	4	1.2	5.0
		CP+RC	1	11.5	11.5
		TP	1	4.6	4.6
	St Catherine's Wood	CP	1	16.5	16.5
		CP+RC	1	24.0	24.0
		TP	5	0.9	4.5
		WS	5	0.4	5.2
2022	Red Bank Plateau	CP	8	8.5	17.3
		TP	6	3.0	3.0
		WS	3	6.0	8.0
		OP	4	0.2	0.4
	Red Bank Terrace	CP	5	4.5	12.5
		TP	1	2.8	2.8
	St Catherine's Wood	CP	5	6.0	15.1
		RC	2	11.5	16.0
		TP	4	0.6	2.5
		WS	5	3.0	6.7

* CP = cable percussion borehole, TP = trial pit, WS = window sampler, RC = rotary coring, OP = observation pit.

3.5.2 Supplementary boreholes

Supplementary boreholes were instructed during the field works in response to conditions encountered:

- BH326, BH327 and BH328 were drilled around BH304 to further delineate cohesive made ground deposits.
- BH301B, BH301C and BH301D were drilled around BH301A to further delineate hydrocarbons discovered in the original borehole.
- BH311B and BH312A were drilled in the former Creamline Dairies site to replace original monitoring installations that were damaged during demolition works.

3.5.3 Monitoring installations

A total of 45 monitoring installations were installed as part of the 2019, 2021 and 2022 ground investigations. A summary of the monitoring installations is presented in Table 3 and their locations are shown in Drawing 02.

Table 3: Borehole installations provided during the 2019, 2021 and 2022 ground investigations

Borehole ID		Site area	Ground Level (mOD)	Response Zone depth (mbgl)		Response Zone Stratum
				Top	Base	
2019	BH101	Red Bank Plateau	43.4	1.0	5.0	Made ground
	BH102	Red Bank Plateau	42.9	1.9	6.7	Made ground/glacial till
	BH103	Red Bank Plateau	42.6	1.0	3.5	Made ground
	BH104	Red Bank Plateau	41.6	1.8	9.2	Made ground
	BH105	Red Bank Plateau	40.7	3.0	9.5	Glacial till
	BH106	Red Bank Terrace	40.7	2.0	10.0	Made ground/glacial till
	BH112	Red Bank Terrace	32.3	0.5	4.0	Made ground/weathered Chester Pebble Beds
2021	BH201	Red Bank Plateau	43.4	3.0	5.0	Bedrock (mudstone)
	BH202	Red Bank Plateau	42.7	4.0	9.0	Glacial till
	BH203	St Catherine's Wood	41.9	18.0	24.0	Collyhurst Sandstone
	BH204	St Catherine's Wood	43.3	1.5	10.0	Made ground/possible made ground
	BH205	Red Bank Plateau	42.6	4.8	10.8	Manchester Marl
	BH206	Red Bank Plateau	42.7	2.0	6.0	Made ground
	BH207	Red Bank Plateau	41.6	1.5	15.5	Made ground
	BH208	Red Bank Plateau	40.7	3.0	13.0	Made ground
	BH209	Red Bank Plateau	41.2	11.0	17.0	Manchester Marl
	BH210	Red Bank Plateau	40.5	14.0	19.6	Chester Pebble Beds
	BH211A	Red Bank Plateau	40.4	5.0	10.5	Made ground
	BH212	Red Bank Terrace	30.4	5.5	9.0	Chester Pebble Beds
	BH213	Red Bank Terrace	31.9	1.5	3.0	Made ground
	BH214A	Red Bank Terrace	30.0	3.0	4.0	Glacial till/alluvium
	WS201B	Red Bank Plateau	43.6	0.5	1.3	Made ground
	WS207	Red Bank Plateau	41.9	0.9	4.9	Made ground
	WS210	Red Bank Plateau	40.9	1.5	2.5	Made ground
	WS212	St Catherine's Wood	39.9	0.5	2.5	Made ground
2022	BH301	St Catherine's Wood	41.9	0.0	10.0	Inclinometer
	BH302	St Catherine's Wood	42.8	0.0	10.0	Inclinometer
	BH303	Red Bank Plateau	42.3	8.5	11.0	Alluvium
	BH304	Red Bank Plateau	41.2	5.0	10.0	Made ground
	BH305	Red Bank Plateau	39.8	1.0	10.0	Made ground
	BH306	Red Bank Terrace	31.5	3.9	5.6	Made ground
	BH307	Red Bank Terrace	30.6	0.5	2.5	Made ground

Borehole ID		Site area	Ground Level (mOD)	Response Zone depth (mbgl)		Response Zone Stratum
				Top	Base	
	BH309	St Catherine's Wood	30.5	7.0	11.5	Chester Pebble Beds
	BH310	St Catherine's Wood	32.6	8.0	16.0	Collyhurst Sandstone
	BH311*	Red Bank Plateau	46.2	9.0	16.0	Glacial till
	BH312*	Red Bank Plateau	45.6	0.5	4.0	Made ground
	BH313	Red Bank Plateau	39.8	3.0	8.0	Glacial till
	BH314	Red Bank Terrace	40.5	9.5	12.0	Alluvium (possible infill to reservoir) and Solid Strata
	BH315	St Catherine's Wood	39.3	9.0	12.5	Alluvium
	BH320	St Catherine's Wood	34.3	3.5	4.2	Made ground/alluvium
	BH321	St Catherine's Wood	34.2	0.5	4.5	Made ground
	BH322	St Catherine's Wood	32.5	5.4	5.8	Alluvium
	BH323	St Catherine's Wood	30.2	0.5	1.7	Made ground
	BH324	Red Bank Plateau	30.0	13.1	14.8	Alluvium
	BH325	Red Bank Terrace	41.0	0.5	3.5	Made ground

* - after installation, these boreholes were lost during demolition works to the former Creamline Dairies site. They were redrilled as BH311A and BH312B.

3.5.4 Groundwater and ground gas monitoring

Following completion of ground investigation, gas and groundwater monitoring was undertaken to establish groundwater levels and ground gas conditions. Monitoring records are presented in the relevant factual reports and the results of monitoring are described below.

3.5.5 Inclinometers

Two inclinometers were installed in BH301 and BH302 in the north-east part of St Catherine's Wood, to allow for long term monitoring of the existing P&P slope.

3.6 Field observations

3.6.1 The former gasworks area

As noted in the desk study report [1] historical maps published between 1906 and 1964 indicate the presence of a 'gasworks' on the top of the Red Bank Plateau (Figure 7a). By 1985 the gasworks appears to have been demolished and a new structure has been constructed. This later structure has subsequently been demolished (Figure 7b).

The footprint of the former gasworks area (the main building and ancillary features, including tanks) is shown on Figure 8 (blue outline) together with the relevant exploratory hole locations. This feature had been targeted during earlier phases of ground investigation, particularly the 2021 GI and a number of exploratory holes in this area identified visual and olfactory evidence for contamination consisting of:

- hydrocarbon odours (BH203, TP204 to TP206A - oily sheens were noted on perched groundwater in this area).
- Deposits of metallic blue sand (TP204 to TP206A - Table 4).

It was considered that this contamination could indicate the presence of gasworks waste. An obstruction was also identified in this area (TP206 - Table 6).

In addition to boreholes, three trial trenches were advanced during the 2022 GI in the area of the former gasworks, to further investigate ground conditions in this area of the site. These investigations were constrained by the presence of a mature tree and other dense areas of vegetation, particularly in the area of former tanks (Figure 8). Detailed trial trench records and a series of photographs are presented in the contractor's factual report [10].

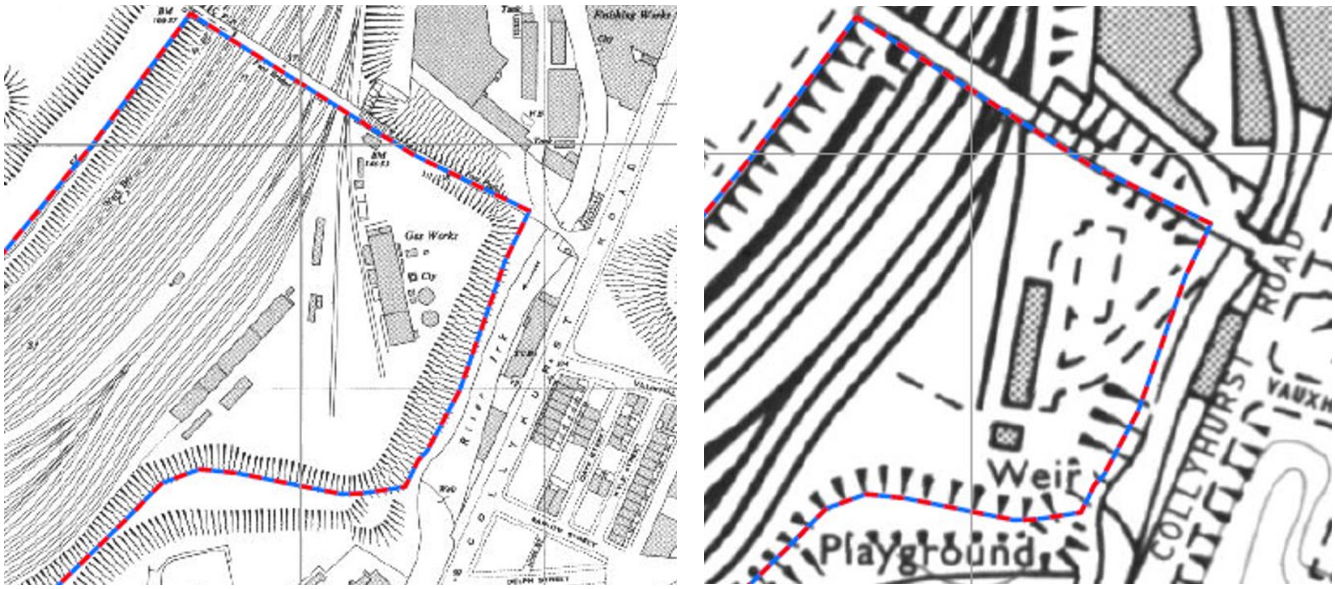

Figure 7: a (left) Extract from the 1952 OS map showing the Gasworks. b (right) showing the same site area on the 1985 map.

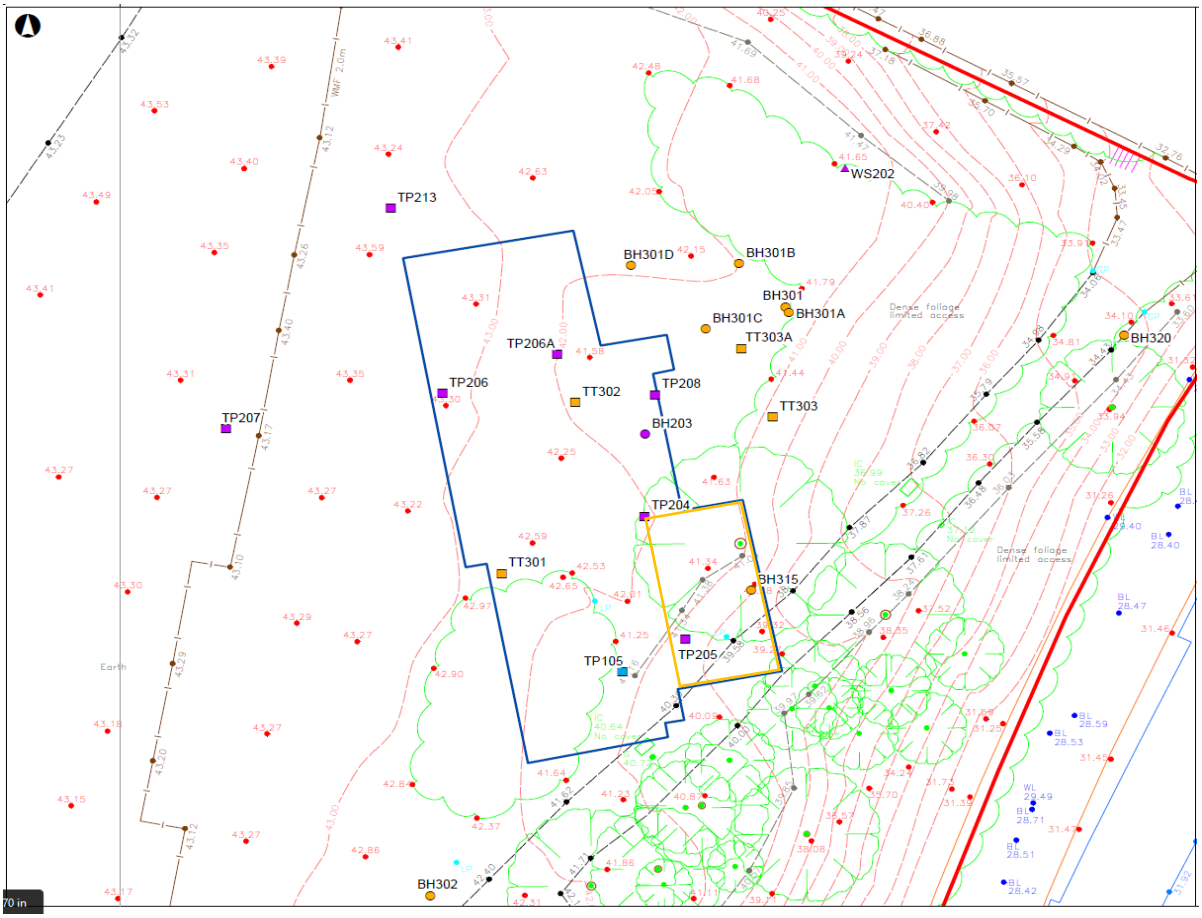

Figure 8: GI locations in the area of the former gasworks. The area of former tanks is outlined in orange

The remains of masonry footings, and concrete slabs were encountered in the trial trenches (Figure 9 and Table 6). These are interpreted as the remains of the former gasworks buildings and extend to a maximum recorded depth of 2.65m bgl. Further excavation (to the base of the masonry) was not possible due to rapid influx of perched water into the trail trench excavations.

Figure 9: The remains of masonry footings in the gasworks area.

At shallow depths, many of the excavations encountered a layer or layers of limestone sub-base material. It is considered likely that this sub-base was placed following the demolition of the gasworks to act as a hardstanding layer (Figure 10).

During the excavation in TT302 a metal vessel, partly filled with oil, was identified (Figure 10). Oil had escaped from this vessel and was evident in adjacent soils and groundwater.

Figure 10: TT302 excavations after the removal of the oil-filled metal vessel.

3.6.2 Infilled Meander bend on the River Irk

Historical maps [1] suggest that a former meander on the River Irk was infilled during an early stage of the construction of the Red Bank Plateau (i.e. prior to 1891). It is likely that the fill materials will have been placed over alluvial soils within the river channel.

A number of exploratory holes from the 2021 and 2022 GI, targeted the recorded position of the infilled meander (Drawing 09). Given that this feature pre-dated the construction of the Red Bank Plateau, it was anticipated to be at depth and could only, therefore be investigated via boreholes. No clear evidence for the meander was encountered in BH203, BH204, BH301 or BH302, however both BH315 and BH320 encountered soils that have been interpreted as alluvium.

In BH315, over 4m of alluvial material was encountered underlying the made ground. No visual or olfactory evidence for contamination was encountered in these soils. In BH320, a 2.45m thick deposit of soil at the base of the exploratory hole has been interpreted as possible alluvium. This material has been described on the borehole record as "Yellowish light brown frequently stained black silty slightly gravelly fine to coarse SAND. Strong hydrocarbon odour noted." The evidence for dark staining and hydrocarbon odours suggests that these alluvial soils have been impacted by contaminants.

3.6.3 Infilled former mill race

A former mill race is shown on historical maps (Figure 4), which suggest that the northern and eastern stretches of this artificial watercourse were infilled at an early stage of the construction of the Red Bank Plateau (i.e. infilled by 1891). However, the south-western stretches of the mill race appear to not to have been infilled until c. 1906. When the mill race was infilled, it is likely that the fill materials will have been placed over relatively minor deposits of alluvium or other sediments that had accumulated during the operational life of the mill race.

BH207, BH303, BH304 and BH306 all targeted the mill race (Drawing 09). In each of these boreholes, made ground was found to extend to greater depth than in adjacent boreholes (Drawing 05C and 07A). These locally deeper areas of made ground are considered to largely confirm the infilled mill race alignment as shown on historical maps.

3.6.4 Infilled former reservoirs

Two former industrial reservoirs are shown on historic maps dating from 1848 to 1906 (Figure 4). The map dated 1922 appears to indicate that by that time both these reservoirs were buried beneath the made ground of the Red Bank Plateau. When the reservoirs were infilled, it is likely that the fill materials will have been placed over material that had accumulated during the operational life of the reservoirs. Depending on the nature of the industries that had been in operation during that time, these accumulations may contain contamination. Given that these infilled historical features pre-dated the construction of the Red Bank Plateau, they were anticipated to be at depth and could only, therefore be investigated via boreholes (Drawing 09).

BH210 in the northern reservoir found no evidence for accumulations of sediment towards the base of the made ground that could be interpreted as infill to the reservoir. BH211A and BH314 in the southern reservoir both encountered layers of dark coloured silts and clays with a significant granular component and strong hydrocarbon odours at the base of the made ground. This material was 0.4m thick in BH211A and 1.1m thick in BH314 and is interpreted as an accumulation of sediment in the base of this southern reservoir.

3.6.5 Visual and olfactory evidence of contamination

A summary of visual and olfactory evidence for contamination identified during the formation of exploratory holes is presented in Table 4.

Table 4: Summary of visual and olfactory evidence of contamination encountered during the ground investigations

Location ID*	Site area	Evidence of contamination	Sample taken for laboratory analysis (Y/N)
Site wide			
TP101	Red Bank Plateau	Slight hydrocarbon odour at 0.8 – 0.9mbgl	N
TP120	Red Bank Terrace	Strong hydrocarbon odour at 0.7 – 1.8mbgl	Y
BH203	St Catherine's Wood	Moderate hydrocarbon odour at 5.5 – 7.5mbgl	Y
BH207	Red Bank Plateau	Moderate hydrocarbon odour at 13 – 15.7mbgl	Y
TP216	Red Bank Plateau	Mild hydrocarbon odour at 1.1 – 1.2mbgl	N
BH306	Red Bank Terrace	Strong hydrocarbon odour at 1.8 – 3.9mbgl	Y
BH310	St Catherine's Wood	Weak hydrocarbon odour at 3.9 – 5.55mbgl	Y
BH321	St Catherine's Wood	Strong hydrocarbon odour at 4.4 – 5.6mbgl. Weak putrid odour at 4.85 – 5.6mbgl	Y
BH322	St Catherine's Wood	Weak hydrocarbon odour at 0.9 – 3.25mbgl	Y
BH327	Red Bank Plateau	Weak hydrocarbon odour at 7.4 – 8.0mbgl	Y
Former gasworks area			
BH103	Red Bank Plateau	Hydrocarbon odour at 0.1 – 1.3mbgl	Y
BH203	St Catherine's Wood	Moderate hydrocarbon odour at 5.5 – 7.5mbgl	Y
TP204	St Catherine's Wood	Metallic dark blue sand with strong hydrocarbon odour at 2.4 - 4.5mbgl, sheen on groundwater	Y
TP205	St Catherine's Wood	Metallic dark blue sand and gravel with strong hydrocarbon odour at 1.9 – 4.2mbgl, sheen on groundwater	Y
TP206A	St Catherine's Wood	Metallic dark blue sand with strong hydrocarbon odour at 1.7 – 4.5mbgl, sheen on groundwater	Tested for asbestos presence only
TP213	Red Bank Plateau	Strong hydrocarbon odour at 1.2 – 4.5mbgl	Y
TT302	St Catherine's Wood	Oils and hydrocarbons at 0.7 – 1.1mbgl	N
Former meander bend			
BH320	St Catherine's Wood	Weak hydrocarbon odour at 0.3 – 3.0mbgl. Strong hydrocarbon odour at 3 – 6.7mbgl	Y
Former reservoirs			
BH211A	Red Bank Plateau	Strong hydrocarbon odour at 10.1 – 10.5mbgl	Y
BH314	Red Bank Terrace	Strong hydrocarbon odour at 8.2 – 9.3mbgl	N
Former carriage shed			
TP202B	Red Bank Plateau	Oily groundwater within foundations at 0.1 – 0.6mbgl	Y
TP202C	Red Bank Plateau	Oily groundwater within foundations at 0.5 – 1.2mbgl	Y

*- 100 series exploratory holes were advanced during the 2019 GI , 200 series exploratory holes were advanced during the 2021 GI, with 300 series exploratory holes advanced during the 2022 GI.

3.6.6 Evidence for volatile contaminants

Throughout the 2021 and 2022 ground investigations, photoionisation detectors (PIDs) were used during the formation of exploratory holes to screen soils for evidence of potentially volatile contaminants (principally hydrocarbons). The occurrences of elevated PID readings are summarised in Table 5.

Table 5: Summary of elevated PID readings taken during the formation of exploratory holes*

Location ID*	Date	Depth (m bgl)	PID reading (ppm)
Generally across the site			
BH310	04/04/2022	5.2	137.9
BH310	04/04/2022	4.2	132.4
BH322	10/04/2022	3.0	27.9
Former gasworks area			
TT301	21/02/2022	2.45	35.7
TT302	17/02/2022	0.3	938.6
TT302	17/02/2022	0.8	246.0
BH301C	10/04/2022	3.8	10.6
Former meander bend			
No elevated PID readings			
Former mill race			
BH303	15/02/2022	2.0	11.7
BH306	25/03/2022	0.5	17.2
BH306	25/03/2022	1.0	16.9
Former reservoirs			
No elevated PID readings			

*- all PID readings < 10ppm excluded

The highest PID readings were recorded in TT302 and TT303 in the former gasworks area.

3.6.7 Evidence for obstructions

A summary of obstructions encountered in exploratory holes is presented in Table 6.

A number of surface obstructions were observed during the fieldworks which were not recorded in exploratory holes. These included two rail turntables shown on Drawing 04 but other features are present across the site which include a number of drainage chambers and shallow concrete slabs located in the North Western side of Red Bank Plateau. Please refer to the site clearance drawing (VNIF-ARP-00-YYY-DR-G-0013) which shows obstructions needed to be removed during pre-construction works.

Table 6: Summary of evidence of below ground obstructions encountered during the ground investigations

Location ID*	Site area	Evidence of below ground obstructions
Generally across the site		
BH308	Red Bank Terrace	Terminated due to void (brick lined chamber) from 1.6 –7.4mbgl
WS103	St Catherine's Wood	Terminated due to concrete obstruction at 3.9mbgl
Former gasworks area		
TP206	St Catherine's Wood	Terminated due to concrete foundations at 0.9mbgl
TT301	St Catherine's Wood	Exposed brick wall at 1.4 – 2.7mbgl
TT302	St Catherine's Wood	Steel vessel and concrete slab at 0.7 – 1.1mbgl

Location ID*	Site area	Evidence of below ground obstructions
TT303	St Catherine's Wood	Steel pipe at 0.3mbgl
TT303A	St Catherine's Wood	Terminated due to concrete slab at 1.1mbgl
Former carriage shed		
TP102	Red Bank Plateau	Terminated due to cobble obstruction at 4.1mbgl
TP202	Red Bank Plateau	Terminated due to brick foundations at 1.4mbgl
TP202A	Red Bank Plateau	Terminated due to brick foundations at 1.2mbgl
TP202B	Red Bank Plateau	Terminated due to brick foundations at 0.6mbgl
TP202C	Red Bank Plateau	Terminated due to brick foundations at 1.2mbgl

*- 100 series exploratory holes were advanced during the 2019 GI , 200 series exploratory holes were advanced during the 2021 GI, with 300 series exploratory holes advanced during the 2022 GI.

3.6.8 Voids

A void was discovered in BH308 at the base of the Red Bank Terrace area **(**Drawing 01). This was determined to be a shallow, relatively small diameter brick lined shaft, which is approximately 7.4m deep penetrating into the Chester Pebble Bed formation. For information on drainage shafts and pipe networks discovered during the 2022 GI, please refer to the site clearance drawing (VNIF-ARP-00-YYY-DR-G-0013) which shows drainage chambers needed to be removed.

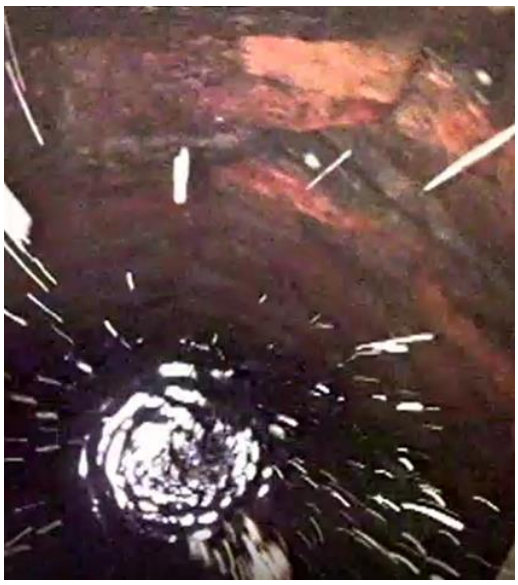

Figure 11: the void encountered in BH308

3.6.9 Viaduct Retaining wall

Four observation pits were initially planned to locate the north-eastern extent of the parapet of the Viaduct Retaining Wall (Figure 3) along the Red Bank Plateau. The pits uncovered the top of the wall at approximately 0.5m to 1mbgl. The end of the parapet wall was located approximately 100m to the north-east of the southern boundary of the Creamline Dairies site (Plot RB12). At this point a perpendicular structure was identified which extended towards the river for approximately 20m and is considered to be part of Retaining Wall 2 (Figure 3). The site clearance drawing (VNIF-ARP-00-YYY-DR-G-0013) shows the extent of the buried retaining wall.

Figure 12: Masonry structure identified in observation pits

3.6.10 Stockpiles

Aerial photographs of the site dated April 2020, indicate a number of stockpiles were present (indicated by the blue markers on Figure 13, top). By 2021 however, these former stockpiles had been largely removed or had been graded flat across the surface of the site (Figure 13, bottom).

To establish whether the residual material from these former stockpiles presented a potential contamination risk, eleven soil samples (SoilSamp 01-11) were taken from the sub-surface in each of these areas during the 2022 GI**.**

Figure 13: aerial photographs of the site from April 2020 (top) and from 2021 (bottom)

4. Ground conditions

The findings from the 2019, 2021 and 2022 ground investigations have been used to develop stratigraphic models, as summarised below. Selected geological cross sections are presented as Drawing 05, Drawing 06 and Drawing 07.

4.1 Ground conditions

The stratigraphy in the three site areas is summarised Table 7 and discussed in greater detail below. The bedrock stratigraphy varies across the site, refer to the relevant solid strata sections below and Drawing 10 for information on the different types of bedrock and levels seen across the site.

Table 7: Summary of the stratigraphy encountered at the site

Site area	Stratum	Top of stratum mbgl (mOD)	Thickness range (m)
Red Bank Plateau	Made ground	Ground level (39.3 to 46.2)	0.8 to 15.7
	Glacial till	0.8 to 13.2 (42.4 to 27.5)	1.1 to 12.4 (in Creamline Dairies)
	Bedrock	4.0 to 16.8 (29.4 to 37.6)	Unproven
Red Bank Terrace	Made ground	Ground level (30.0 to 44.0)	1.8 (at toe of slope area) to 9.3
	Glacial till	3.2 to 9.3 (27.5 to 31.2)	1.4 to 3.9
	Bedrock	1.8 to 10.8 (41.4 to 29.9)	Unproven
St Catherine's Wood	Made ground	Ground level (30.2 to 43.4)	3.0 (at toe of slope area) to 16.5
	Alluvium	3.0 to 10.5 (29.2 to 28.8)	Unproven
	Bedrock	1.9 to 16.4 (28.3 to 25.5)	Unproven

4.2 Red Bank Plateau stratigraphy

An interpretation of the ground conditions encountered in Red Bank Plateau is discussed below and illustrated on geological cross sections in Drawings 05A to 05E.

4.2.1 Made ground

To the north-western side of the site, along location of the proposed plateau road, the made ground is typically between 1m and 4m thick. Generally comprising sandy gravel (of concrete, brick, tarmac, plastic, glass, clinker, sandstone, ceramic, rubber) with low cobble content. A 2m thick cohesive zone (approximately 1 to 3mbgl) was encountered locally and generally described as a sandy slightly gravelly clay, soft to firm becoming stiff at depth. The approximate extent of the cohesive made ground in this area of the site is illustrated on Drawing 05A and Drawing 08.

The thickness of made ground across the Red Bank Plateau increases to approximately 16m at the crest of the plateau, overlooking the River Irk. The generally granular made ground is typically described as a loose granular ash fill, which can be seen through the full strata of the made ground overlying the bedrock as seen in Drawing 05B. However, there is the presence of some localised pockets of cohesive material at shallower depths (2 to 3mbgl) along the Plateau (BH104), with more extensive generally cohesive made ground in the vicinity of Plot RB03. As indicated on Drawing 05C and Drawing 08, a cohesive made ground layer has been interpreted between 4m and 7mbgl (BH304 and BH304A). In addition, there is a thin cohesive layer at the bedrock boundary which is likely to be associated with the historical mill race (BH304).

In a number of exploratory holes that targeted in-filled features such as the former course of the River Irk, the former mill race and the most northerly of the former reservoirs, the base of made ground was found to be deeper than adjacent boreholes.

4.2.2 Glacial till

Generally, glacial till deposits are limited to the north and north-western part of the Red Bank Plateau area (generally in the areas of the proposed plateau road). These glacial till deposits were encountered at relatively shallow depths, underlying the made ground.

The glacial till is generally cohesive, being described on the exploratory hole records as soft to firm, becoming stiff at depth slightly sandy gravelly clay.

A number of granular lenses have been recorded within the glacial till, generally in the plateau road part of the site. These are described as medium dense to very dense brown slightly clayey sandy gravel and gravelly sand, with a low to moderate cobble content and gravel of sandstone, limestone and mudstone.

4.2.3 Solid strata

Solid strata were encountered in the Red Bank Plateau area as follows, and presented on Drawing 10:

- Chester Pebble Beds - Generally described as extremely weak to weak dark orange brown slightly clayey coarse grained weathered sandstone.
- Manchester Marls - Generally described as a reddish brown extremely weak thinly laminated clayey mudstone (weathered).
- Collyhurst Sandstone - Limited in extent, encountered in one location (BH101). Described as extremely weak to very weak fine to coarse grained sandstone with lenses of red marl.

4.3 Red Bank Terrace stratigraphy

The stratigraphy of the Red Bank Terrace area is summarised below and in Drawing 06.

4.3.1 Made ground

Made ground in this part of the site reaches up to 10m thick, with the thickness of the material largely influenced by the sloping surface topography.

Generally, the made ground can be described as a red brown and grey sandy gravel and gravelly sand with gravels of brick, concrete sandstone and clinker. A low to moderate cobble content is also noted. In some areas of the Red Bank Terrace area, predominantly cohesive made ground was encountered, described as to soft firm sandy gravelly clay containing gravels of brick, coal clinker and sandstone. These cohesive made ground deposits were generally not laterally extensive.

At the base of the made ground, BH211A and BH314 encountered up to 1.1m of dark coloured material with strong hydrocarbon odours, which has been interpreted as sediment/infill to the southern of two former reservoirs (Figure 4). Sections of the former mill race are also present adjacent to the current channel of the River Irk. Made ground may be locally thicker within these features.

4.3.2 Glacial till

The glacial till deposits in the Red Bank Terrace areas are thickest in the north and west and become thin/absent towards the river in the south and east. Glacial till can be described as medium dense brown, slightly clayey gravelly sand with gravels of mudstone, limestone and sandstone.

4.3.3 Solid strata

The solid stratum encountered has been interpreted as Chester Pebble Beds Formation and was typically described as extremely weak to weak weathered red brown fine grained sandstone. Generally recovered as sand and gravel due to weathering.

4.4 St Catherine's Wood stratigraphy

The stratigraphy of the St Catherine's Wood area is summarised below and on Drawing 07A and 07B.

4.4.1 Made ground

The made ground encountered across much of this area was predominantly granular (Drawing 07A) and is generally described as sandy clay, gravelly sand and sandy gravel. Gravel recorded include roadstone, slag, ash, brick, concrete, clinker, coal, mudstone, sandstone, limestone and cinder. The maximum depth of made ground recorded in this area was 16.5m (BH204) within the infilled former meander bend. Although the lower 1m of soils encountered in this borehole have been interpreted as made ground because of the presence of brick fragments, these soils may be alluvium into which some of the overlying made ground deposits have penetrated.

Within the northeast part of the St Catherine's Wood area (the P&P slope area), a greater proportion of cohesive made ground was identified (Drawing 07B and Drawing 08), with up to 12m of generally cohesive made ground encountered in BH302. This predominantly cohesive made ground is variable but generally described as loose medium dense clayey sandy gravel and soft to stiff sandy gravelly clay. With gravels of concrete, brick, mudstone, cinder, macadam, slag, sandstone and coal.

Sections of the former meander bend of the River Irk and the former mill race are lie beneath the made ground in the St Catherine's Wood area (Figure 4). BH320, encountered a layer of dark coloured made ground with strong hydrocarbon odours, at depths of between 3.0m and 4.25m, which has been interpreted as infill to the meander bend.

4.4.2 Alluvium

Only limited deposits of alluvium have been encountered within the site, generally associated with the River Irk and its former meander bend. Generally, this material can be described as soft brown very sandy clay and loose brown slightly clayey sand.

In BH315, over 4m of alluvial material was encountered underlying the made ground. Alluvium may have been encountered between 4.25m and 6.7m in BH320. The soils at this depth were light brown frequently stained black silty slightly gravelly fine to coarse SAND and a strong hydrocarbon odour was noted. The source of the dark discolouration and hydrocarbon odours within these alluvial soils may be the overlying made ground.

4.4.3 Solid strata

Solid strata were encountered as follows:

- Collyhurst Sandstone - The Collyhurst Sandstone was encountered in the north-eastern part of St Catherine's Wood at the P&P slope location (BH301, BH309 and BH310). It is generally described as extremely weak red brown coarse grained distinctly weathered sandstone.
- Manchester Marls - The Manchester Marl was encountered in the central part of St Catherine's Wood (BH303) and eastern part of Red Bank Plateau (BH304, BH324). It is generally described as a reddish brown extremely weak thinly laminated clayey mudstone (weathered).
- Chester Pebble Beds - The Chester Pebble Bed formation was encountered at three locations in the Red Bank Plateau and Red Bank Terrace area (BH213, BH314, BH305 and BH306) and was typically described as extremely weak fine to coarse grained red brown sandstone. Highly weathered occasionally recovered as loose to medium dense sand.

Rockhead level varies between approximately 25mOD and 38mOD. Generally, the rock head level is at higher elevation at the north-western side of the site near to the Honey Street retaining wall, and then gradually decreases in elevation towards the river. Within the Red Bank Plateau area, the depth to bedrock is between 10m to 16m, and towards the river edge, the depth to bedrock is between 2m and 4mbgl.

The distribution of bedrock type encountered during fieldwork differs to that shown on the BGS 1:50,000 bedrock map (Drawing 10).

4.5 Distribution and classification of made ground

The Red Bank Plateau was created in the late 1800s to form a level area for railway sidings and is likely to have been constructed using locally-sourced materials available at that time. To facilitate the construction of the Red Bank Plateau, a number of pre-existing features including a meander bend on the River Irk, a former mill race and two former reservoirs were infilled (Figure 4). It is evident from Table 7 that significant deposits of made ground have been encountered across all areas of the site. Made ground was generally thickest towards the crest of the slopes that mark the south-eastern limit of Red Bank Plateau. The thickest made ground encountered during ground investigation was 15.6m in BH304 which is located within the area of the historically infilled mill race (Drawing 05C).

The relevant exploratory hole records indicate that the made ground is predominantly granular in nature however, in three areas of the site, zones of predominantly cohesive made ground have been identified:

- The north-western side of the site, along plateau road.
- The north-eastern section of the Plateau Slope (within Plot RB03).
- The P&P Slope area (adjacent to Plot RB05b)

The interpreted extent of these areas of predominantly cohesive made ground are shown in plan on Drawing 08.

In order to further assess the nature of the made ground, secondary soils categories have been applied to the made ground deposits that have been encountered. The secondary soil categories adopted for this assessment are as follows:

- MG-G – soils described on the exploratory hole records as predominantly granular.
- MG-CO – soils described on the exploratory hole records as predominantly cohesive.

For all the made ground present across the site, the BS5930 soil description data presented in the contractors' factual reports has been used to make a global assessment of the proportions of made ground falling into these two broad categories. The results of this assessment indicate that:

- In the Red Bank Plateau, the made ground appears to be predominantly granular with approximately 75% of the made ground soils encountered during GI categorised as MG-G.
- For the Red Bank Terrace area, the available data suggests approximately 84% of the made ground soils encountered during the GI are predominantly granular and can therefore, be categorised as MG-G.
- For St Catherine's Wood, the available GI data suggests that 69% of the made ground soils encountered during GI are predominantly granular and can therefore, be categorised as MG-G.

The predominantly granular made ground however, still contains fines which may impact material behaviour. The assessment of relative proportions of the various made ground materials identified above is approximate and is based on the ground conditions encountered in the relevant exploratory holes. The data presented here therefore, is for general guidance purposes only.

Soil classification in accordance with the Specification for Highway Works (SHW) is covered in Section 8.3.2.

4.6 Distribution and classification of natural material

Natural materials including glacial till and alluvium have been encountered within the site. Generally, the alluvial deposits are encountered in boreholes adjacent to the river channel (i.e. largely within the St Catherine's Wood area - Drawing 07A and 07B). Historical records suggests that a former meander bend of the River Irk extended beneath parts of the Red Bank Plateau (Figure 4). Alluvial soils have been encountered with this former meander bend.

It has been inferred that prior to placement of made ground, the glacial till deposits were eroded from the area surrounding the river channel. Glacial till deposits however, remain in the more elevated areas of the valley, away from the current River Irk channel**.** The distribution of glacial till deposits tends to be along the

north and north-western areas of the site, largely in agreement with the distribution shown on the BGS map (Drawing 08). Drawing 05A presents a long section which shows the shallow glacial till deposits running along the general alignment of the plateau road. Drawing 05D and 05E present cross-sections through Creamline Dairies, Red Bank Plateau and the Red Bank Terrace area and illustrates the manner in which the glacial deposits become thinner and then absent towards the south and south-east, towards the river.

In order to assess the distribution of natural soils further, secondary soils categories have been applied to the natural deposits encountered during the various phases of GI. These secondary soil categories have been determined on the basis of the relevant BS5930 [11] soil descriptions. The secondary soil categories adopted for this assessment are as follows:

- GTD-G – glacial till soils described on the exploratory hole records as predominantly granular;
- GTD-CO – glacial till soils described on the exploratory hole records as predominantly cohesive;
- ALV-G – alluvial soils described on the exploratory hole records as predominantly granular;
- ALV-CO – alluvial soils described on the exploratory hole records as predominantly cohesive.

A global assessment of the proportions of granular and cohesive natural soils has been undertaken based on the BS5930 soil descriptions taken from the exploratory hole records for each area of the site. The results of this global assessment are as follows:

– Approximately half the glacial till soils encountered in the Red Bank Plateau area, are predominantly granular (GTD-G). No alluvium was encountered in this area.

– Limited glacial till was encountered in the Red Bank Terrace area. These deposits appear to be predominantly granular with approximately 70% of the glacial till encountered during GI categorised as GTD-G.

– Due to erosion by the River Irk, glacial till deposits were not encountered in the St Catherine's Wood area. A fairly consistent band of alluvium was encountered however, associated with the river (including the historical meander channel). The alluvium deposits appear to be predominantly granular with approximately 78% encountered during GI categorised as ALV-G.

4.7 Groundwater encountered during ground investigation

During the ground investigation, groundwater was encountered at varying depths. The groundwater strike details recorded during the 2019, 2021 and 2022 ground investigation are listed below in Table 8 and groundwater strikes from selected exploratory holes are shown on the geological sections shown on Drawing 05 to Drawing 07.

Table 8: Summary of groundwater encountered during the 2019, 2021 and 2022 GIs

GI Phase	Intrusive location ID	Site area	Groundwater strike depth (mbgl)	Groundwater strike elevation (mAOD)	Strata
2019	BH103	Red Bank Plateau	0.6	42.0	Made ground
	TP104	Red Bank Plateau	3.5	39.6	Alluvium
	TP105	St Catherine's Wood	2.0	39.1	Made ground
	TP107	Red Bank Plateau	0.6	42.2	Made ground
	TP110	Red Bank Plateau	1.8	39.6	Made ground
	TP112	Red Bank Plateau	2.8	38.0	Made ground
	WS101	St Catherine's Wood	4.2	28.0	Alluvium
	WS105A	Red Bank Terrace	4.2	25.2	Alluvium

GI Phase	Intrusive location ID	Site area	Groundwater strike depth (mbgl)	Groundwater strike elevation (mAOD)	Strata
2021	BH206	Red Bank Plateau	1.3	41.4	Made ground
	BH207	Red Bank Plateau	13.0	28.6	Made ground
	BH212	Red Bank Terrace	5.6	24.8	Made ground
	TP201	Red Bank Plateau	2.4	40.6	Glacial till
	TP202	Red Bank Plateau	0.6	42.3	Made ground
	TP202A	Red Bank Plateau	0.6	42.4	Made ground
	TP202B	Red Bank Plateau	0.5	42.2	Made ground
	TP202C	Red Bank Plateau	0.4	42.2	Made ground
	TP203	Red Bank Plateau	2.9	40.4	Made ground
	TP204	St Catherine's Wood	2.9	39.2	Made ground
	TP205	St Catherine's Wood	2.7	38.3	Made ground
	TP206A	St Catherine's Wood	3.5	38.5	Made ground
	TP207	Red Bank Plateau	2.7	40.6	Made ground
	TP208	St Catherine's Wood	3.0	39.0	Made ground
	TP210	Red Bank Plateau	3.7	39.4	Glacial till
	TP211	Red Bank Plateau	0.6	41.1	Made ground
	TP212	St Catherine's Wood	3.4	38.6	Made ground
	TP213	Red Bank Plateau	2.7	40.6	Made ground
	TP216	Red Bank Plateau	0.8	40.0	Made ground
	TP217	Red Bank Plateau	1.2	40.1	Made ground
	TP219	Red Bank Terrace	3.0	27.7	Made ground
	WS201	Red Bank Plateau	1.1	42.4	Made ground
	WS204	St Catherine's Wood	4.3	28.5	Made ground/ Alluvium
	WS205	Red Bank Plateau	5.0	37.1	Made ground
	WS206	St Catherine's Wood	4.1	28.5	Made ground/ Alluvium
	WS207	Red Bank Plateau	0.6	41.3	Made ground
	WS210	Red Bank Plateau	2.8	38.1	Made ground
2022	BH301	St Catherine's Wood	11.0	30.9	Made ground
	BH301A	St Catherine's Wood	5.0	36.6	Made ground
	BH301B	St Catherine's Wood	12.5	29.5	Made ground
	BH302	St Catherine's Wood	11.0	31.8	Made ground

GI Phase	Intrusive location ID	Site area	Groundwater strike depth (mbgl)	Groundwater strike elevation (mAOD)	Strata
	BH308	Red Bank Terrace	3.1	27.1	Made ground
	BH310	St Catherine's Wood	4.7	27.9	Alluvium
	BH320	St Catherine's Wood	4.6	29.7	Made ground
	BH322	St Catherine's Wood	4.9	27.6	Alluvium
	TT301	St Catherine's Wood	2.0	40.6	Made ground
	TP308	Red Bank Plateau	2.9	38.2	Glacial till
	TP309	Red Bank Plateau	0.7	42.2	Made ground
	TP310	Red Bank Plateau	2.9	39.9	Glacial till

4.7.1 Groundwater monitoring

Groundwater monitoring installations are present in 43 exploratory holes advanced during the 2019, 2021 and 2022 ground investigations. These installations consist of a 50mm standpipe, with a perforated section placed within a gravel screen and sealed (top and bottom) with bentonite. The position of the perforated response zones was selected to target specific aspects of the ground conditions encountered in each installation. During the 2022 GI, the serviceability of all monitoring installations from earlier phases of GI, was established by the GI contractor. A summary of the groundwater monitoring infrastructure and the available monitoring results is presented in Table 9.

Table 9: Summary of groundwater monitoring

GI	Location	Complete rounds	Response Zone (mbgl)	Response zone stratum	Groundwater depth range (mbgl)	Groundwater Level (mOD)
2019	BH101	9	1.0 to 5.0	Made ground	2019: 4.81 to 4.95 2022: Dry	2019: 38.43 to 38.57 2022: Dry
	BH102	9	1.9 to 6.7	Made ground/ glacial till	2019: Dry 2022: 3.00 to 5.71	Dry 2022: 37.22 to 39.93
	BH103	8	1.0 to 3.5	Made ground	2019: 0.91 to 3.40 2022: 1.83 to 2.57	2019: 39.17 to 41.66 2022: 40.00 to 40.74
	BH104	2	1.8 to 9.2	Made ground	2019: 8.10 to 8.95 Unable to locate in 2022	2019: 33.49 to 32.64
	BH105	7	3.0 to 9.5	Glacial till	2019: 4.52 2022: 3.67 to 4.52	2019: 36.15 2022: 36.15 to 37.00
	BH106	4	2.0 to 10.0	Made ground/ glacial till	2019: Dry 2022: 3.64	2019: Dry 2022: 37.03
	BH112	7	0.5 to 4.0	Made ground/ Bedrock (Chester Pebble Beds)	2019: Dry 2022: Dry	2019: Dry 2022: Dry
2021	BH201	12	3.0 to 5.0	Bedrock (Manchester Marl)	2021: 4.95 to 5.46 2022: 4.70 to 5.94	2021: 37.94 to 38.45 2022: 37.46 to 38.70

GI	Location	Complete rounds	Response Zone (mbgl)	Response zone stratum	Groundwater depth range (mbgl)	Groundwater Level (mOD)
	BH202	12	4.0 to 9.0	Glacial till	2021: 4.19 to 4.94 2022: 3.36 to 5.56	2021: 37.72 to 38.47 2022: 37.10 to 39.30
	BH203	12	18.0 to 24.0	Bedrock (Collyhurst Sandstone)	2021: 12.00 to 12.17 2022: 12.07 to 12.32	2021: 29.89 to 29.72 2022: 29.57 to 29.82
	BH204	12	1.5 to 10.0	Made ground/ possible made ground	2021: 2.29 to 2.67 2022: 2.75 to 2.96	2021: 40.61 to 40.99 2022: 40.32 to 40.53
	BH205	12	4.8 to 10.8	Bedrock (Manchester Marl)	2021: 5.68 to 6.11 2022: 5.70 to 6.42	2021: 36.47 to 36.9 2022: 36.16 to 36.88
	BH206	11	2.0 to 6.0	Glacial till	2021: 2.71 to 3.10 2022: 3.15 to 3.28	2021: 39.59 to 39.98 2022: 39.41 to 39.54
	BH207	12	1.5 to 15.5	Made ground	2021: 12.25 to 12.8 2022: 12.70 to 12.78	2021: 28.84 to 29.39 2022: 28.86 to 28.94
	BH208	12	3.0 to 13.0	Made ground	2021: 11.8 to 12.01 2022: 11.90 to 11.99	2021: 28.65 to 28.86 2022: 28.67 to 28.76
	BH209	12	11.0 to 17.0	Bedrock (Chester Pebble Beds)	2021: 12.39 to 12.47 2022: 10.50 to 12.50	2021: 28.74 to 28.82 2022: 28.71 to 30.71
	BH210	13	14.0 to 19.6	Bedrock (Chester Pebble Beds)	2021: 7.63 to 11.21 2022: 8.33 to 11.00	2021: 29.25 to 32.82 2022: 29.45 to 32.12
	BH211A	9	5.0 to 10.5	Made ground	2021: 6.86 to 7.73 2022: 7.59 to 8.36	2021: 32.71 to 33.58 2022: 32.08 to 32.85
	BH212	11	5.5 to 9.0	Bedrock (Chester Pebble Beds)	2021: 3.00 to 3.35 2022: 3.05 to 3.52	2021: 27.03 2022: 26.86 to 27.33
	BH213	11	1.5 to 3.0	Made ground	2021: 2.99 to 3.10 2022: Dry	2021: 28.84 to 28.95 2022: Dry
	BH214A	9	3.0 to 4.0	Glacial till	2021: 3.24 to 3.38 2022: 3.40	2021: 26.65 to 26.79 2022: 26.63
	WS201B	11	0.5 to 1.3	Made ground	2021: 0.78 to 1.17 2022: Dry	2021: 42.38 to 42.77 2022: Dry
	WS207	10	0.9 to 4.9	Made ground	2021: 0.27 to 1.22 2022: 0.30 to 0.36	2021: 40.69 to 41.64 2022: 41.35 to 41.46
	WS210	9	1.5 to 2.5	Made ground	2021: 2.2 to 2.54 Unable to locate in 2022	2021: 38.34 to 38.68
	WS212	6	0.5 to 2.5	Made ground	2021: Dry Unable to locate in 2022	2021: Dry
2022	BH303	8	8.5 to 11.0	Alluvium	7.77 to 8.10	34.20 to 34.53

GI	Location	Complete rounds	Response Zone (mbgl)	Response zone stratum	Groundwater depth range (mbgl)	Groundwater Level (mOD)
	BH304	8	5.0 to 10.0	Made ground	8.06 *Dry for all but one visit	33.12
	BH305	8	1.0 to 10.0	Made ground	Dry	Dry
	BH306	7	3.9 to 5.6	Alluvium	3.90 to 4.80	26.65 to 27.55
	BH307	8	0.5 to 2.5	Made ground	3.40 *Dry for all but one visit	27.21
	BH309	5	7.0 to 11.5	Bedrock (Chester Pebble Beds)	2.69 to 2.85	27.65 to 27.81
	BH310	7	8.0 to 16.0	Bedrock (Collyhurst Sandstone)	4.15 to 4.26	28.34 to 28.45
	BH311	2	9.0 to 16.0	Glacial till	8.47 to 8.50	47.70 to 37.73
	BH312	5	0.5 to 4.0	Made ground	3.85 *Dry for all but one visit	41.75
	BH313	8	3.0 to 8.0	Glacial till	3.72 *Dry for all but one visit	36.09
	BH314	8	9.5 to 12.0	Glacial till/Bedrock (Chester Pebble Beds)	6.27 to 10.20	30.30 to 34.23
	BH315	8	9.0 to 12.5	Alluvium	6.80 to 9.98	29.28 to 32.46
	BH320	7	3.5 to 4.2	Alluvium	Dry	Dry
	BH321	7	0.5 to 4.5	Made ground	3.28 to 4.40	29.8 to 30.92
	BH322	7	5.4 to 5.8	Alluvium	3.50 to 3.99	28.5 to 28.99
	BH323	7	0.5 to 1.7	Made ground	Dry	Dry
	BH324	4	13.1 to 14.8	Alluvium	11.78 to 11.90	29.10 to 29.22
	BH325	8	0.5 to 3.5	Made ground	3.22 to 3.45	26.50 to 26.73

Observed groundwater levels in the made ground are shown on Drawing 11. Observed groundwater levels in the bedrock are shown in Drawing 12. Hydraulic gradients for the Chester Pebble Beds and Collyhurst Sandstone have been calculated as 0.034 and 0.032 respectively [36].

The main groundwater-bearing units within the site are the Collyhurst Sandstone in the east and the Chester Pebble Beds sandstone in the west (Figure 6). These two units are likely to be hydraulically separated from each other by the Manchester Marl which is present in the central part of the site. As summarised in Table 9, recorded groundwater levels were:

- Manchester Marls - in the order of 36mOD to 39mOD.
- Collyhurst Sandstone – in the order of 30mOD.
- Chester Pebble Beds – in the order of 27m to 32mOD.

River levels measured during the 2021 topographical survey were between 29.5mOD in the east (where the Collyhurst Sandstone is present) and 26.6mOD in the west (where the Chester Pebble Beds are present). The

similarity between groundwater and river levels suggests that the groundwater in the sandstone is discharging into the River Irk.

Groundwater was also observed in the made ground, glacial till and alluvium during drilling and in subsequent water monitoring. The made ground is considered likely to contain a perched but discontinuous body of groundwater in the Red Bank Plateau area, separated from the underlying bedrock aquifers by the glacial till, where present (Figure 5). The groundwater monitoring data in the glacial till suggests that there is not a continuous water body within these deposits, but that any groundwater is present within granular layers/lenses.

In the lower-lying Red Bank Terrace, and the lower part of St Catherine's Wood, where glacial till is absent, made ground has been observed to directly overlie alluvium or bedrock, and groundwater in these strata is likely to be in continuity with the river unless it is perched on relic features such as old floor slabs or cellars.

5. Material properties

A summary of the geotechnical in-situ and laboratory testing undertaken in each of the three development areas is presented below. The data is presented based on the strata type and site area. This section also includes an assessment of geotechnical material properties, interpreted from data plots provided in Appendix B. Derived geotechnical parameters are also presented in Appendix B.

5.1 Classification

5.1.1 Particle size distribution (PSD)

231 PSD tests have been undertaken in total across all three phases of GI. Charts 1A to 1F (Appendix B) show PSD results for made ground and natural materials.

The assessment of the PSD data is summarised in Table 10.

Table 10: Particle size distribution

Area	Stratum	No. of samples	PSD fraction	Typical description
Red Bank Plateau	Made ground granular	69	Sand and gravel content is between 74 & 94% (6 – 26% fines)	Well graded silty gravely medium to coarse SAND
	Made ground cohesive	29	Fines content is between 39 & 89% Clay is 11 to 31%	Well graded sandy gravelly CLAY
	Glacial till granular	21	Sand and gravel content is between 47 & 98%	Poorly graded gravelly SAND
	Glacial till cohesive	13	Fines content is between 50 & 91% Clay is 15 to 30%	Poorly graded sandy SILT
Red Bank Terrace	Made ground granular	27	Sand and gravel content is between 70 & 90%	Well graded Silty gravely medium to coarse SAND
	Made ground cohesive	6	Fines content is between 18 & 35% Clay is 2 to 6%	Well graded sandy gravelly CLAY
	Alluvium cohesive	1	Fines content is 35% Clay is 2%	Poorly graded silty gravelly CLAY
	Glacial till granular	8	Sand and gravel content between 76 & 97%	Poorly graded silty gravelly fine SAND
St Catherine's Wood	Made ground granular	24	Sand and gravel content is between 39-93%	Well graded silty gravely medium to coarse SAND
	Made ground cohesive	26	Fines content is between 30-96% Clay is 4 to 34%	Well graded sandy gravelly CLAY
	Alluvium granular	4	Sand and gravel content is between 77-91%	Poorly graded silty gravelly fine SAND

PSD data for specific areas of proposed excavation and implications for material re-use are assessed further in Section 8.3.2 below.

5.1.2 Atterberg limits and plasticity index

For made ground, plasticity was plotted against liquid limit on Casagrande A-line plots (Charts 2A and 2C) which suggest the made ground to be low to intermediate plasticity based on a total of 77 tests.

An assessment relating to natural moisture content with plasticity range was undertaken on cohesive samples.

Charts 2D, 2F and 2H show plots of natural moisture content and plasticity range (PL-LL) against depth for made ground at Red Bank Plateau, Red Bank Terrace and St Catherine's Wood. The charts show that the natural moisture content of the cohesive made ground for the upper 3 to 6m is typically closer to and in some instances greater than the plastic limit. Below this level, the natural moisture content is concentrated towards the centre of the plastic range.

For natural material (Charts 2E, 2G, and 2I), the natural moisture content is typically concentrated more towards the plastic limit for the upper 5m below ground level beneath the Red Bank Plateau. Below 5m, the natural moisture content is concentrated towards the centre of the plastic and liquid limit range.

Charts 2J to 2L show individual plots of plasticity index against depth for made ground across all 3 site areas. Within the Red Bank Plateau and Red Bank Terrace areas the data suggests some increased plasticity with depth, however data from St Catherine's Wood suggests more variation through the made ground.

A summary of the averaged Atterberg limit results and average natural moisture content data is presented in Table 11. Careful consideration of the data has been undertaken to remove outliers.

Table 11: Plastic limit (PL), Liquid limit (LL), Plasticity Index (PI) and moisture content (MC) for cohesive material.

Site area	Stratum	No. of samples	Plasticity index	Average PL (%)	Average LL (%)	Average MC (%)	Soil classification
Red Bank Plateau	Made ground	41	5 - 24	18	33	21	Low to intermediate plasticity clay soil
	Glacial till	24	6 - 26	18	33	21	Low to intermediate plasticity clay soil
Red Bank Terrace	Made ground	5	10 - 16	18	32	22	Low to intermediate plasticity clay soil
	Alluvium	2	8 - 9	18	27	44	Low plasticity clay soil
St Catherine's Wood	Made ground	31	6 - 22	18	33	21	Low to intermediate plasticity clay soil
	Alluvium	1	13	16	29	18	Low plasticity clay soil

5.1.3 Bulk unit weight

No specific laboratory tests were carried out to determine material unit weights. Values of unit weight have been obtained from other laboratory testing and estimated based on SPT N values and relationships provided by Look (2007) [14]. The estimated bulk unit weights are summarised in Table 12.

Table 12: Estimated unit weights based on correlation with SPT N results and estimations from Look (2007).

Stratum	Red Bank Plateau Bulk unit weight (kN/m^3)	Red Bank Terrace Bulk unit weight (kN/m^3)	St Catherine's Wood Bulk unit weight (kN/m^3)
Made ground	17-20	17-20	17-20
Glacial till	19-21	19-21	17-20
Alluvium	-	-	15-18

5.2 In-situ tests

In-situ testing information has been interpretated for trends and these values have been used to determine material properties. A summary of SPT N results is presented in Table 13. SPT N has been plotted against depth and elevation for each of the site areas in Appendix B, Charts 3A to 3L. A small number of test results exceeded N of 40 within the made ground material, these values were not considered to be representative of the material, such outliers were not used to correlate material parameters. The following observations describe typical ranges excluding outliers.

Made ground

For the made ground (Charts 3B, 3F and 3J), there is wide scatter (N = 0 to 36) near to the surface for all site areas, below 4mbgl values are lower, from N = 2 to 25.

At Red Bank Plateau, granular made ground has an average N value of 10. The cohesive made ground has an average N value of 7. Red Bank Terrace shows a similar pattern, but with less extensive cohesive material in this area (Charts 3B and 3F).

Within St Catherine's Wood, the granular made ground in the upper 6m has values from N = 2 to 30. The cohesive made ground around P&P slope area exhibits increasing N with depth, from an average of N = 5 at 2mbgl to approximately N = 20 at 12mbgl (Chart 3J).

While average N values are consistent (between N = 7 and N = 12) in the made ground across all three site areas, the material is highly variable. Placement will have been uncontrolled without compaction, therefore the average results should only be used for guidance.

Glacial till

Glacial till deposits have a typical range N = 10 to N = 15 for depths to approximately 6mbgl in the Red Bank Plateau area (Chart 3D). There is a general increase of N from 20 to 40 from 6mbgl to 14mbgl.

SPT data related to glacial till for Red Bank Terrace (Chart 3H), indicates an increase in SPT N values from N = 10 to 40 between 3mbgl and 10mbgl, with no scatter near the surface as seen in Red Bank Plateau.

The average N values in the glacial till vary between N = 14 and 23 suggesting more variance which is a likely result of weathering profiles.

Alluvium

In the St Catherine's Wood area (Chart 3L), low SPT N values were obtained in the alluvium, with an average of N = 7 between 3 and 5m bgl indicating loose soil.

Summary

The SPT data is summarised in Table 13.

Table 13: Summary of SPT N results

Area	Stratum	No. of tests	No. of outliers	Lower bound N	Upper bound N	Averaged N_{60}
Red Bank Plateau	Cohesive made ground	42	2	2	26	7
	Granular made ground	78	3	2	27	10
	Cohesive glacial till	19	7	12	53	21
	Granular glacial till	38	8	8	50	16

Area	Stratum	No. of tests	No. of outliers	Lower bound N	Upper bound N	Averaged N_{60}
Red Bank Terrace	Cohesive made ground	13	2	6	27	10
	Granular made ground	36	3	2	27	9
	Cohesive glacial till	2	0	12	15	14
	Granular glacial till	8	1	12	43	21
St Catherine's Wood	Cohesive made ground	39	3	2	25	12
	Granular made ground	37	1	2	28	10
	Granular glacial till	3	0	19	28	23
	Granular alluvium	18	2	2	11	7

5.3 Strength

The strength of the materials has been estimated and derived from in-situ and laboratory tests where appropriate in terms of total and effective stress.

5.3.1 Total stress - undrained shear strength

The following tests were done to establish undrained shear strength: laboratory triaxial tests, hand shear vanes on ex-situ samples, and correlations to SPT N values.

Seventeen quick undrained triaxial (UU) tests were undertaken on undisturbed samples of made ground and glacial till across the site in accordance with BS1377:7 as presented in Chart 4A.

Undrained shear strength was also determined on ex-situ samples using Hand Shear vane tests. A total of 109 hand shear vane (HSV) tests were recorded as having been undertaken across the site.

Undrained shear strength of the cohesive made ground and glacial till has been derived from SPT using an f_1 value of 5, where c_u = SPT N * f_1 (Stroud [15] and CIRIA 143 [16]). Charts 4B, 4D and 4F illustrate both laboratory triaxial test and correlated undrained shear strength from SPT N against depth for made ground. Charts 4C and 4E illustrate both laboratory triaxial test and correlated undrained shear strength from SPT N against the top of the glacial till stratum which will help to suggest any evidence of weathering profiles. The averaged SPT N values presented in Table 13 were used to derive undrained shear strength as summarised in Table 14.

Table 14: Undrained Shear Strength parameters

Site area	Stratum	No of tests	Outliers	C_U range (kPa)	C_U average (kPa)	Test type
Red Bank Plateau	Made ground	7	2	21 to 38	35	UU
		48	-	28 to 130	58	HSV
		42	2	10 to 130	35	SPT N
	Glacial till	3	1	175 to 200	190	UU
		15	-	36 to 130	72	HSV
		19	7	60 to 250	100	SPT N
Red Bank Terrace	Made ground	2	1	12	12	UU
		3	-	20 to 22	21	HSV
		13	2	30 to 135	50	SPT N
	Glacial till	1	1	24	24	UU
		2	0	60 to 75	70	SPT N
St Catherine's Wood	Made ground	5	1	13 to 91	51	UU
		43	-	17 to 111	48	HSV
		39	3	10 to 125	60	SPT N

Made ground

For made ground in the Red Bank Plateau area, the undrained shear strength values are fairly consistent across the different tests. There is a scatter in the results for the upper 4m which is related to the variable SPT N results as a result of local variable compaction rates across the area.

Cohesive made ground was not encountered as frequently in the Red Bank Terrace area and where it was identified, triaxial testing established that undrained shear strength was generally lower than in samples from the Red Bank Plateau area. The Red Bank Terrace has been subject to filling operations more recently, than other parts of the site. In addition, the made ground in the Terrace area is considered to be less confined which may explain the lower strengths identified by laboratory testing.

The cohesive made ground in the P&P slope area exhibits an increase in strength from approximately 20 to 90 kPa with depth. Here, the cohesive made ground is up to 12m thick. The triaxial results are consistent with the SPT N derived strength values.

Direct shear strength results from the triaxial tests and ex-situ hand shear vane tests have been plotted against depth for made ground (Figure 14**).** As expected for made ground, the data generally shows a wide scatter in the upper 2m, especially near the surface which is consistent with the varied SPT N values recorded at shallow depths.

The hand shear vane and SPT N derived values provide a much broader range of results in line with the variability of the made ground. However, the SPT N derived c_u values are very similar to the laboratory derived triaxial results, except for Red Bank Terrace which shows a much lower laboratory result. This is based on one lab result which should be taken with caution. Therefore, the SPT N derived c_u is deemed to be appropriate for the chosen parameter selection.

Glacial till

There are two quick undrained triaxial tests results from samples of glacial till recovered from the Red Bank Plateau area relating to the Creamline dairies car park. The triaxial data suggests undrained shear strength to be in the magnitude of 180 to 200 kPa which is supported by the extrapolated N values at the same depth along with similarly high hand shear vane results (BH311 and BH312).

In the Red Bank Plateau area, as shown on Chart 4C, The upper 1m shows large variance in strength which differentiates weathered and unweathered profiles. The high strength values greater than 200 kPa represent specific zones which have not been exposed to weathering therefore retaining its strength. The lower strength values (50-60 kPa) represent a weathered surface. This band of weaker strength relates to BH101 and BH201 located in the area of the historical carriage shed (Figure 4) which could suggest exposure of the surface during the construction. The unweathered profile below 1mbgl increases in strength from 100 to 200 kPa with depth.

In Red Bank Terrace, there is no weathered surface, but the overall strength of the glacial till is weaker in comparison to Red Bank Plateau averaging 50 kPa.

Direct shear strength results from the triaxial tests and ex-situ hand shear vane tests were also plotted against depth for the glacial till (Figure 15). There is a scatter in the results from 1 to 2mbgl (the top 1m of the glacial till), associated with the weathering profiles as identified by other testing.

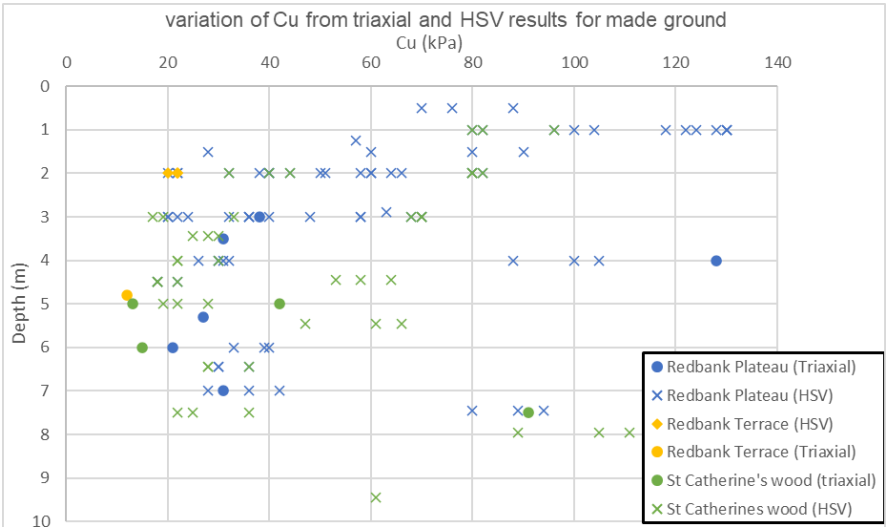

Figure 14: Variation of cu derived from hand shear vanes and undrained triaxial tests with depth (made ground)

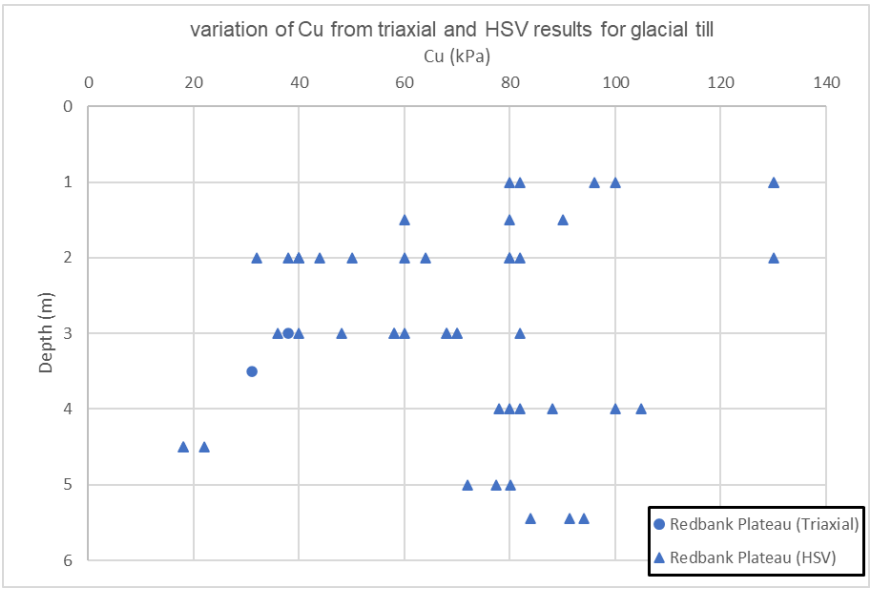

Figure 15: Variation of cu derived from hand shear vanes and undrained triaxial tests with depth (glacial till)

5.3.2 Effective strength parameters

Direct single stage and multi-stage consolidated undrained triaxial tests with measurement of porewater pressure were undertaken on samples of cohesive made ground in the St Catherine's Wood area (P&P slope). The single stage tests were undertaken on suites of samples of similar materials tested at different confining pressures. The data was presented on an s' t' plot to assess any trends. A representative trend line has been

overlaid on Chart 5 to illustrate the derived parameters for cohesive made ground, friction angle of 27° and effective cohesion of 3kpa.

For granular deposits angle of friction was derived from SPT N based on Wolff 1989 [17].

For fine grained soils, effective angle of shearing resistance has been estimated from plasticity index (PI) values presented in Table 11 using the Terzaghi and Peck relationship outlined in BS8002 [13]. There is wide range in PI and therefore internal angle of friction. An average PI of 15 produces an approximate internal angle of friction of 27° which is consistent with the laboratory derived parameter for the cohesive strata in St Catherine's Wood. Derived angle of internal friction values are presented in Table 15.

Table 15: Estimated angle of internal friction

Area	Stratum	Averaged SPT N_{60}	Plasticity Index	Angle of internal friction (degrees)
Red Bank Plateau	Cohesive made ground	-	5 to 24	25 to 33
	Granular made ground	10		30
	Cohesive glacial till	-	6 to 26	24 to 32
	Granular glacial till	16		31
Red Bank Terrace	Cohesive made ground	-	10 to 16	27 to 30
	Granular made ground	9		30
	Cohesive alluvium	-	8 to 9	30 to 31
	Granular glacial till	21		33
St Catherine's Wood	Cohesive made ground	-	6 to 22	25 to 32
	Granular made ground	10		30
	Granular glacial till	23		34
	Granular alluvium	7		29

5.3.3 Stiffness

The drained Young's Modulus E' for granular material has been estimated using 1500*SPT N, taken from CIRIA 143 [16].

Undrained Young Modulus (E_U) parameters for cohesive soils was derived from 600*Cu based on correlations between PI, OCR and Cu taken from Jamiolkowski et al.,1979 [18]. The correlation factor of 0.73 has been used based on recommendations from Ciria 143 to convert to drained parameters [16]. The undrained shear strength values (Cu) used are based on the averaged SPT N values as presented in Table 14, the OCR is assumed to be 1. These are approximate stiffness values intended for general use, as stiffness is strain dependent. The geotechnical engineer should use specific stiffness values relatable to the intended construction. The derived stiffness parameters are presented in Table 16.

Table 16: Estimated Stiffness parameters

Area	Stratum	Average SPT N60	Average Cu	E' (kPa)	E_U (kPa)
Red Bank Plateau	Cohesive made ground	-	35	15 000	21000
	Granular made ground	10	-	15 000	-
	Cohesive glacial till	-	100	44 000	60 000
	Granular glacial till.	16	-	24 000	-
Red Bank Terrace	Cohesive made ground	-	50	20 000	30 000
	Granular made ground	9	-	14 000	-

Area	Stratum	Average SPT N60	Average Cu	E' (kPa)	E_U (kPa)
	Cohesive glacial till	-	70	30 000	42 000
	Granular glacial till	21	-	30 000	-
St Catherine's Wood	Cohesive made ground	-	60	26 000	36 000
	Granular made ground	10	-	15 000	-
	Granular glacial till	23	-	34 000	-
	Granular alluvium	7	-	11 000	-

5.3.4 Rock strength

The uniaxial compressive strength of the bedrock has been measured directly by a limited number of laboratory tests and derived from point load index test results related to previous ground investigations. As shown in Appendix B, Charts 6A to 6B, point load test results on axial samples of bedrock were used to establish UCS values using published conversion factors of k(a) = 15 for sandstone and k(a) = 8 for mudstone [19] have been used to derive approximate strength values.

Twelve UCS and point load tests were specified on samples of Collyhurst Sandstone recovered from BH309 and BH310, advanced during the 2022 GI. Due to their high degree of weathering however, all samples were found to be unsuitable for testing.

Based on the limited testing data, the strata encountered can generally be classed as a moderately weak rock. Uniaxial compressive strength tests are typically carried out on higher quality samples which may act to exaggerate the rock strength when compared to data derived from point load tests.

Uniaxial compressive strengths measured directly and derived from point load tests are summarised in Table 17.

Table 17: Uniaxial compressive strength for the bedrock beneath the site

Derivation	Strata	No. of tests	UCS (MPa)
UCS from direct tests	Chester Pebble Beds	2	6.5 to 15.0
	Collyhurst Sandstone	1	1.4
UCS derived from point load index	Chester Pebble Beds	54	2.0 to 9.0
	Manchester Marls	61	2.0 to 3.5
	Collyhurst Sandstone	47	2.0 to 5.5

5.4 Compressibility

5.4.1 Laboratory consolidation test

The one-dimensional compressibility characteristics were derived from oedometer tests (BS 1377-5:1990 clause 3). Samples from BH101, BH110 and BH215 were loaded in increments from 50 to 400 kPa. Samples from BH102, BH104, BH202, BH203 and BH204 were loaded from 25 to 200 kPa. Test loads for the 2022 GI samples were based on the anticipated in-situ stress post construction.

The coefficient of compressibility (m_v) values at each test stage are provided in Table 18.

Table 18 Coefficient of compressibility (mv)

Material	Stress range	Min Mv	Max Mv	Average Mv
Made ground	50-100	0.14	0.66	0.36
	100-200	0.08	0.31	0.19
	200-400	0.06	0.11	0.09
Glacial Till deposits	50-100	0.03	0.32	0.14
	100-200	0.069	0.14	0.09
	200-300	0.04	0.12	0.07

As expected, for made ground, the results suggest high compressibility values. For glacial till, the variability in the Mv results is a response to the differences in weathering profiles. The presented values were not comparable to published data and other index correlations such as SPT. Oedometer test results are more reliable when pure clay samples are used. It is also expected that there would have been some degree of sample disturbance during the preparation which could exaggerate the consolidation.

5.5 California bearing ratio

Equivalent in-situ CBR values for the shallow made ground encountered across the site have been estimated from mexeprobe and dynamic cone penetrometer testing. CBR values for remoulded made ground material have been measured in laboratory CBR tests. The results are summarised below. When assessing this data, the following definitions have been used:

- **Sub-formation** - the surface exposed following site clearance and any excavation and prior to any filling operation.
- **Formation** - the surface of the ground after completion of any filling operation.

5.5.1 Mexeprobe testing

During the 2021 GI, the mexeprobe method was used to obtain an equivalent CBR in selected trial pits. The addition of two mexeprobe tests were undertaken in the trial trenches located in St Catherine's Wood during the 2022 GI. The tests were undertaken at a range of start depths from 0.2 to 0.8m bgl. The maximum depth the tests were completed to was 0.65m below the start depth. Table 19 presents a summary of test results obtained from the made ground, with the data plotted against depth on Figure 16**.**

Table 19: Determination of equivalent CBR % by mexeprobe testing

Site Area	Test locations (No.)	Tests (No.)	Failed tests (No.)	CBR Max (%)	CBR Min (%)	CBR Ave. (%)	Values <2.5% (No.)	Values 2.5-5% (No.)	Values 5-10% (No.)	Values 10-15% (No.)
St Red Bank Plateau	12	49	11	15.0	0.5	4.4	17	11	7	3
Red Bank Terrace	2	11	2	10.0	2.0	5.4	2	3	4	0
St Catherine's Wood	8	29	6	14.0	0.5	4.2	12	12	4	3

The results in Table 19 and Figure 16 indicate a range of equivalent CBR of 0.5 to 15% with an average CBR from all available tests of 4.7%. It is inferred that all failed tests were due to obstructions of large cobbles causing early termination.

5.5.2 Dynamic cone penetrometer testing

During the 2021 GI, the Dynamic Cone Penetrometer (DCP) was used to obtain equivalent CBR values at a number of selected trial pit locations. The results of DCP testing are summarised in Appendix B, Table 1 and Figure 16.

At depths of 500mm, 1000mm, 1500mm and 2000mm below ground level the average equivalent CBR values recorded are 10%, 14%, 11% and 12% respectively. Outlier results greater than 100% have been excluded from the data analysis. Values from the DCP tests show that the equivalent CBR of the made ground generally increases with depth, however it should be noted that at depth, several tests terminated early due to obstructions, so data from depth is relatively limited.

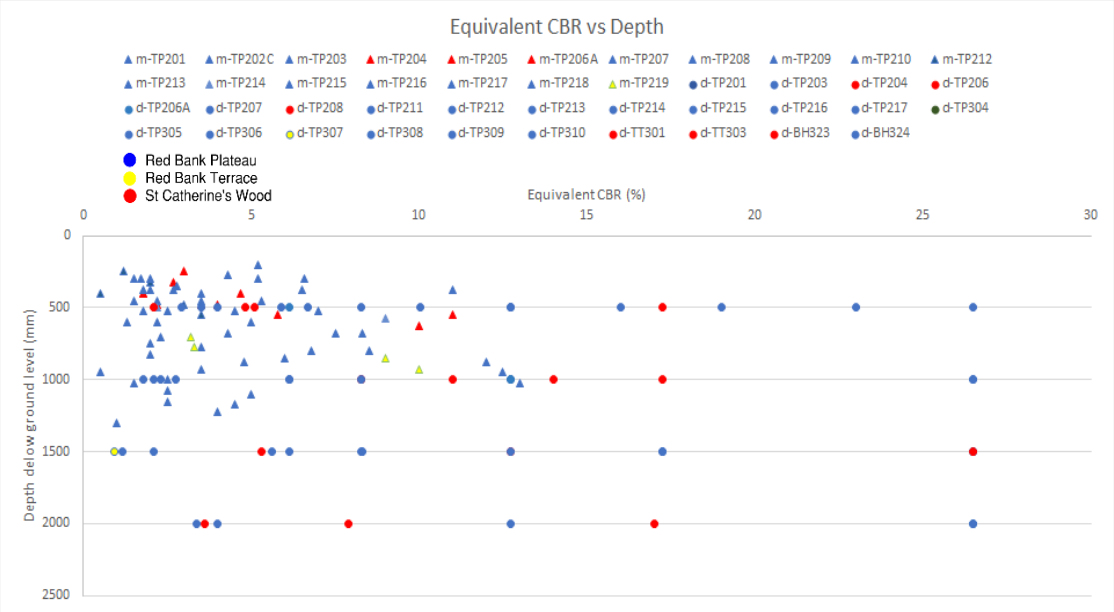

Figure 16: Equivalent CBR vs depth based on in-situ mexeprobe and DCP results

5.5.3 Laboratory CBR

During the 2019 and 2021 ground investigations, 32 laboratory CBR tests were completed on samples prepared by a variety of methods including 2.5kg compaction, 4.5kg compaction and vibrating hammer compaction. The tests were undertaken on samples obtained from depths ranging from 0.8 to 15m bgl. All samples were compacted at as-received moisture contents. A seating load of 10kPa was applied. During the 2022 GI, there were 12 remoulded CBR tests undertaken on samples obtained between ground level and 2m bgl. A surcharge of 4kPa was applied to each sample.

The full range of CBR values from all tests completed was 0.98% to 98.5%. As it is anticipated that only the top 2m of the site will be reworked, all results from tests on samples taken deeper than 2m have been discounted from this assessment.

Made ground

Twelve tests were undertaken on samples from less than 2mbgl with a seating load of less than 10kPa. All 12 were undertaken on samples recompacted using a 2.5kg compaction rammer resulting in a CBR range from 0.65% to 37%, with an average of 20%.

By inspection, on the basis of the laboratory testing that has been undertaken, it is anticipated that for suitable general granular fill recovered from made ground, placed and compacted in accordance with the SHW, a CBR value of 5% or greater at formation level can be assumed for pavement design.

Glacial till

Six tests on samples of shallow glacial till (<2mbgl) from Red Bank Plateau undertaken using a 2.5kg compaction rammer yielded results ranging from 1.5 to 56%, with an average of 29%.

5.5.4 Summary of CBR tests

Based on the in-situ DCP test results, it is considered that a CBR value of 5% can be assumed where formation is on in-situ made ground. However, CBR results less than 5% have been measured in some locations. These are likely to indicate soft spots which will need to be removed and recompacted before pavement construction.

In areas of engineered fill (using recovered, site-won general granular fill), a CBR value of 5% can be assumed at formation level for pavement design based on the 2.5kg compaction laboratory test results.

5.6 Moisture content/dry density relationship

Thirty-one laboratory compaction tests have been undertaken on samples taken up to a maximum of 4mbgl which accounts for any locally deeper excavation to remove certain obstructions for example. This includes test samples from the 2019, 2021 and 2022 GI results. Compaction curve data was assessed to determine the Moisture content (MC) range that would achieve 90% dry density (MDD) for general fill and 95% dry density (MDD) for structural fill. Table 20. presents this together with the optimum moisture content (OMC) and average natural moisture content. Outliers have been removed to present the typical trends.

Table 20: Summary of compaction test results

Site area	Stratum	No. of tests	2.5kg MDD (Mg/m^3)	2.5kg OMC (%)	4.5kg MDD (Mg/m^3)	4.5kg OMC (%)	Vibro MDD (Mg/m^3)	Vibro OMC (%)
Red Bank Plateau	Made ground (cohesive)	2	1.7	17	1.9	11		
	Made ground (granular)	12	1.2 to 1.8	13 to 18	1.3 to 1.6	13 to 18	1.7 to 1.8	10 to 13
	Glacial till	7	1.7 to 1.9	13 to 18	-	-	-	-
Red Bank Terrace	Made ground (cohesive)	No data						
	Made ground (granular)	5	1.7 to 2.0	10 to 16	1.1	7.8	-	-
	Glacial till	No data						
St Catherine's Wood	Made ground (cohesive)	2			1.8 to 1.9	12 to 14	-	-
	Made ground (granular)	3	1.8	15	2.0	10	-	-
	Glacial till	No data						

An analysis of the moisture content/dry density relationship for made ground has been carried out for the 2.5kg rammer tests (Appendix B, Charts 7A to 7T) and is summarised in Table 21. An interpretation of the test results has been undertaken to suggest allowable moisture content ranges that would satisfy requirements for structural and general fill material in accordance with SHW table 6/4 [12].

Only 2019 and 2021 GI compaction results had natural moisture content marked on the compaction curves. Of the 13 individual 2019/2021 test results presented in Appendix B, Charts 7A to 7T, 10 had natural moisture content within the range that is likely to be acceptable for material placed as class 1 general granular fill in accordance with the SHW. In three samples, natural moisture content was higher than the acceptable range. Typically, the natural moisture content of the material is very close to or at the upper limit of acceptability.

To assess the 2022 GI data related to the 2.5kg rammer tests in accordance with class 1 and 2 fill requirements (SHW) [12], the average natural moisture content from Table 21 is used to assess the current condition of the soil samples for reuse. Of the 7 individual test result, all 7 had natural moisture content within the range that is likely to be acceptable for material placed as class 1 general granular fill in accordance with the SHW.

The data indicates that in some instances the natural moisture content is above the likely upper limit of acceptability for general granular fill, indicating that some material is likely to require moisture control. For material to be placed as a structural backfill, where a higher standard of compaction is likely to be required, more conditioning by means of lime or drying is needed to reduce the moisture content is likely to be necessary.

Table 21: Summary of compaction test analysis

Area	MC for 90% mdd	MC for 95% mdd	OMC (%)	Average MC (%)
Red Bank Plateau	8 to 22	9 to 20	14 to 18	21
Red Bank Terrace	6 to 21	7 to 17	11 to 16	20
St Catherine's Wood	7 to 22	9 to 20	16	21

5.7 Permeability

A number of infiltration tests were undertaken in boreholes across the site to obtain data on the permeability of the granular and cohesive made ground. In addition, a number of infiltration tests were undertaken in areas of the site in which it may be possible to construct surface water soakaways in natural deposits. These infiltration tests were undertaken in the north-west of the site, where thin made ground overlies glacial till and towards the river edge around the base of St Catherine's Wood, where thin made ground overlies alluvium and solid strata. The results of permeability testing are summarised in Table 22.

Table 22: Permeability estimates from Infiltration test results

Area	Exploratory Hole ID	Stata	Response zone (m)	Permeability (m/s)	Permeability (m/day)
Red Bank Plateau	BH312	Cohesive Glacial till	4.0 – 5.0	4.69E-08	0.004
St Catherine's wood	BH310	Granular Alluvium	2.3 – 4.9	3.26E-05	3
	BH320	Granular made ground	3.5 – 4.2	2.10E-06	0.2
	BH321	Cohesive made ground	5.0 – 6.0	1.39E-07	0.01
	BH322	Cohesive Alluvium	5.4 – 5.8	7.53E-09	0.0007
	BH323	Granular made ground/marl	1.7 – 2.6	5.68E-08	0.005
	BH325	Cohesive made ground	1.5 – 3.5	3.35E-07	0.03

5.8 Concrete aggressivity

Contaminants such as sulphates and acidic conditions generally present a low risk to human health but can result in aggressive ground conditions that may result in the degradation of buried concrete. Current UK good practice requires the assessment of this potential risk and appropriate design of buried concrete in line with BRE Special Digest SD1 [20]. An assessment in line with this guidance is presented below, assuming a design life of greater than 100 years for any new below ground concrete structures.

The design sulphate (DS) and aggressive chemical environment for concrete (ACEC) classes were assessed assuming that the site was classified as a pyritic brownfield with static groundwater. Pyrite is commonly present in materials such as colliery spoil and is therefore expected to be present within the made ground. Given that most proposed concrete structures are to be in the shallow made ground above groundwater level, static groundwater conditions have been assumed. A summary of the assessment results is provided in Table 23 below.

The data presented in the table below indicates that for the design of buried concrete in made ground, a DC-3 (design chemical class) should be adopted based on DS-4 and corresponding AC-3s ground conditions. For the design of buried concrete in other strata, DC-1 and AC-1s conditions should be assumed. This assessment does not take account of the potential impact of hydrocarbon contamination on the setting and curing of concrete. The potential impacts of such contamination should be taken account of during the development of the remediation strategy for the site and in designing concrete mixes.

Table 23: Summary of aggressive ground testing related to design sulphate (DS) conditions

Strata	No. of samples	Characteristic pH	Characteristic sulphate (mg/l)	Design sulphate class	ACEC class*
Made ground	64	7.0	929.0	DS-4	AC-3s
Glacial till	4	8.2	210.0	DS-2	AC-1s
Alluvium	No data				
Chester Pebble Beds	2	8.1	31.7	DS-1	AC-1
Manchester Marl	5	8.2	36.9	DS-1	AC-1
Collyhurst Sandstone	1	8.5	14.5	DS-1	AC-1
*Assumes static groundwater					

6. Contamination assessment

6.1 Initial conceptual site model

6.1.1 Approach

A conceptual model describes the scenario in which the risks to human health and the environment posed by land contamination are assessed. It describes the ground and surface conditions, the proposed ground works and where appropriate, the final form of the development. In particular, the model identifies and describes the sources of the potential contamination, the behaviour of the contamination in environmental media such as soil and groundwater, surface water and air. It also identifies and characterises potential human health and environmental receptors, and plausible pathways.

The potential risks to human health and the environment have been considered in the context of a conceptual source-pathway-receptor model of the wider site area, identifying:

- The principal pollutant hazards associated with the site (the sources);
- The principal receptors at risk from the identified hazards; and
- The existence, or absence, of plausible pathways which may exist between the identified hazards and receptor.

For risks to be present, all three elements (source-pathway-receptor) of a potential contaminant pollutant linkage must be present.

6.1.2 Potential sources

The 2019 desk study [1] identified the primary potential contamination sources within the site as rail sidings (in Red Bank Plateau), historical works (across all site areas, including mills, dye works and chemical works) and gasworks and gasometers (in St Catherine's Wood). Potential sources external to the site include former gasometers in Travis Island, the Rochdale Road gasworks, the former Queens Road Tip (landfill) and Sand Street landfill.

The 2019 desk study included a review of potentially contaminating previous uses and a preliminary review of the findings of the 2019 GI across the wider site area. Table 24 has been adapted from the Arup desk study report and presents a summary of potential sources of contamination at the site based on the findings of both the desk-based review and the 2019 and 2021 GIs.

Elements of the 2022 GI were designed to provide more information on the former gasworks in St Catherine's Wood and further investigate the human health and controlled waters risks identified by the desk study. The rationale for the GI, which sets out the purpose of each exploratory hole, is presented in Appendix A.

Table 24: Potential sources of contamination (based on desk study information and the findings of the 2019 and 2021 GIs)

Potential Source	Potentially Contaminative Materials	Previous findings
Made ground from site historical site operations including: Rail sidings [1] Historical works [2,3,4,5,6,7] Gasworks and gasometers [8]	Organic compounds Metals and metalloids including lead, arsenic, mercury, nickel, copper, zinc, and iron Asbestos Polycyclic aromatic hydrocarbons (PAHs) Total petroleum hydrocarbons (TPH) including lubricating oils, heating oils, petrol and diesel range organics	The 2019 and 2021 ground investigations identified material such as clinker in the made ground. Asbestos was identified in 15 positions, and it may also be present in other areas of contaminated soil not yet identified. 6 of these samples were clustered at the former gasworks (**Drawing 15**) Hydrocarbon odours were noted in 20 exploratory holes, including 7 positions in former gasworks and 2 in the former reservoirs. Metallic blue sand was also

Potential Source	Potentially Contaminative Materials	Previous findings
	Solvents (VOCs and SVOCs) Cyanide (free and complex) Phenol Extremes of pH	noted in the gasworks in 3 trial pits. Oily groundwater was noted in TP202B and TP202C in the foundations of the former carriage shed. Works include: chemical works, dye works, oil works, engineering works, garage, glass works, metal works, printing works, tannery, and timber works
Historical demolition rubble in made ground	Asbestos	Previous buildings within the site boundary may have contained asbestos, which may have become incorporated into the made ground during demolition
Perched groundwater within made ground/relic structures Leachate from adjacent landfill sites (predominantly Queens Road Tip landfill)	Potential for leachable contaminants from made ground	Hydrocarbon contamination of perched groundwater was identified in the area of the former carriage shed and railway gasworks. Monitoring wells were installed in BH201 and BH205 to check for the migration of contaminated leachate from Queens Road Tip.
Made ground containing degradable materials Former landfill sites (offsite, including Queens Road tip, Sand Street landfill and Fitzgeorge Street landfill)	Hazardous ground gases (methane, carbon dioxide, hydrogen sulphide, carbon monoxide)	Gas monitoring data is available from the 2021 investigation, with all but one position CS1. BH205, close to the edge of Queens Road Tip, was determined as CS2.
DoE Industrial Profile document titles: [1] Railway Land [2] Chemical works – coatings, paints and printing inks manufacturing works [3] Timber treatment works [4] Timber manufacturing works [5] Road vehicle fuelling, service and repair – garages and filling stations [6] Metal manufacturing, refining and finishing works – iron and steel works [7] Textile and dye works [8] Gasworks, coke works and other coal carbonisation plants		

6.1.3 Potential receptors

Receptors both during the proposed HIF Infrastructure Works (HIF IW) and following completion of the HIF IW and future development include:

- Construction workers and site neighbours during the HIF IW;
- Interim users of the site following HIF IW before follow-on plot development;
- Construction workers and site neighbours during future development of the site;
- Residents and workers in the proposed future buildings constructed on the site;
- Occupants of the proposed school (Plot RB05b);
- Future users of onsite public open space areas in St Catherine's Wood and Red Bank Terrace;

- Groundwater within the alluvium deposits (secondary A aquifer), glacial till (secondary (undifferentiated) aquifer), Manchester Marls Formation (secondary B aquifer) and Chester Pebble Beds Formation and Collyhurst Sandstone Formation (principal aquifers);
- Surface water receptors – the River Irk;
- Buried structures and services;
- Plants in new soft landscaped areas.

6.1.4 Potential pathways

Potential pathways that may be present during construction of HIF IW and following completion of the HIF IW, during construction of follow-on development and following completion of follow-on development include:

- Human health - ingestion of soils or dust;
- Human health - inhalation of dust, vapour or ground gas;
- Human health - dermal contact with soils, surface water and groundwater;
- Controlled waters - migration of dissolved or free phase contamination within groundwater (preferential flow paths may exist such as former river channels);
- Vegetation - direct contact and uptake of contaminants in made ground;
- Ground gas - ingress of ground gas into the new development;
- Building and services - building materials such as concrete and plastic pipework may be subject to attack by aggressive ground conditions, where present.

6.1.5 Summary of initial conceptual site model

The 2019 desk study included a preliminary summary of potential contaminant linkages requiring assessment in relation to the site and adjacent areas, based on the findings of both the desk-based review and the 2019 GI. Table 25 and Table 26 have been adapted from Arup desk study report and present summaries of potential contaminant linkages both during the construction and operational phases of the planning application site.

Table 25: Conceptual site model for the HIF Infrastructure Works construction phase

Source		Pathway		Receptor	Linkage?
Made ground (containing solid contaminants, asbestos fibres and hydrocarbons)	→	Dermal contact	→	Construction worker	Yes
		Ingestion of soil/ soil dust	→		Yes
		Inhalation of soil vapour	→		Yes
		Inhalation of soil and soil dust	→	Construction worker	Yes
			→	Site neighbours	Yes
Temporary stockpiles of excavated arisings Accidental leaks and spills during construction	→	Leaching and runoff	→	Relic surface water drainage network	Yes
			→	River Irk	Yes
		Leaching and infiltration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk	Yes

Source		Pathway		Receptor	Linkage?
Impacted shallow groundwater, including groundwater entering the site from landfill to the north	→	Dermal contact	→	Construction worker	Yes
		Ingestion	→	Construction worker	Yes
		Lateral migration	→	River Irk	Yes
Ground gases/landfill gases	→	Ingress and accumulation of toxic, asphyxiating or explosive concentrations within excavations	→	Construction worker in deep trenches and chambers	Yes

Table 26: Conceptual site model post-completion of HIF Infrastructure works

Source		Pathway		Receptor	Linkage?
Made ground (containing solid contaminants and possible hydrocarbons from historical spills)	→	Dermal contact	→	Future site user in public open space areas Interim users of plots where no hardstanding exists prior to follow-on development Pathways broken where hard surfacing and buildings present	Yes
		Ingestion of soil/ soil dust	→		Yes
		Inhalation of soil vapour	→		Yes
		Inhalation of soil and soil dust	→		Yes
		Leaching and infiltration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk	Yes
		Direct contact	→	Buried structural concrete	Yes
			→	Potable water supply pipes	Yes
			→	New planting in public open space areas	Yes
Impacted shallow groundwater, (including groundwater if entering site from landfill to north)	→	Dermal contact	→	Future site resident	No
		Ingestion	→	Future site resident	No
		Lateral migration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk	Yes
Ground gases/landfill gases	→	Ingress and accumulation of toxic, asphyxiating or explosive concentrations within buildings	→	Future site user Building structures	Yes

6.2 Environmental risk assessment

6.2.1 Introduction

Several potential contaminant linkages were identified within the site (Section 6.1.5). An environmental risk assessment has been undertaken for each of the receptors for which a potential contaminant linkage has been identified. The process outlined in the Land Contamination Risk Management (LCRM) guidance [21] follows a tiered approach to assessing risk which begins with an initial screening assessment known as a generic quantitative risk assessment (GQRA). The GQRA makes use of published assessment criteria and

when a soil/ groundwater concentration exceeds the screening value then further consideration is required. The GQRA is presented in the following sections.

The potential environmental risks have been considered in the context of a conceptual source-pathway-receptor (SPR) model of the site. A preliminary evaluation of the level of risk to each receptor from the identified plausible pathways and the level of mitigation that would be required for the proposed development is also provided.

For this assessment, the laboratory analysis results and field data collected during the 2019, 2021 and 2022 ground investigations have been screened against current published or internal guideline values in order to provide an initial assessment of the potential contamination status of the planning application site. The data for soil, groundwater and ground gas have been assessed separately, as presented below.

6.2.2 Human health soil screening assessment

6.2.2.1 Methodology

To simplify the assessment of ground contamination risks, statutory guidance suggests that generic soil quality guideline values may be used for the initial screening of soil contamination testing results. Generic assessment criteria (GAC) and site-specific assessment criteria (SSAC) can be calculated using the software version of the Contaminated Land Exposure Assessment (CLEA) model [22]. The model estimates human exposure (children and adults) to soil contaminants for those potentially living, working and/or playing on contaminated sites over long time periods (chronic exposure). The CLEA model does not consider short-term (acute) risks to humans, such as those which may arise during construction activities, or the risks posed by contaminated groundwater.

Soil guideline values (SGVs) generated using the CLEA software and accompanying toxicological reports have been issued by the Environment Agency (EA) for eleven contaminants. Arup has produced GACs using risk assessment software in accordance with the CLEA assessment framework for the six standard CLEA end uses (residential with plant uptake, residential without plant uptake, public open space (parks), public open space (residential), allotments, and commercial) and for soil organic matter (SOM) values of 1%, 2.5% and 6%. Land Quality Management Ltd (LQM) [23] and the AGS/EIC/CL:AIRE [24] have also produced and published GACs for the standard CLEA end uses, using the CLEA v1.07 software. Arup GACs have been benchmarked against the LQM and AGS/EIC/CL:AIRE GACs and both are similar with respect to the research carried out and the criteria developed.

Full details on the input parameters and background research used to undertake this human health screening assessment can be provided upon request. The GACs used have been developed using a Soil Organic Matter (SOM) value of 6%, which has been selected based on the average SOM content of the soils sampled across the site.

The assessment of risks from asbestos in soils is presented in Section 6.2.2.4**.**

6.2.2.2 Soil screening results – residential screening criteria

For the Red Bank Plateau, the results of soil analysis have been compared to human health generic assessment criteria (GAC) derived by Arup (Appendix C**)** for a residential end use without plant uptake. It is understood that within Red Bank Plateau, limited areas of private residential gardens together with some areas of public open space may be provided as part of the follow-on development. Given that the current masterplan does not fully detail the areas of proposed private gardens or areas of public open space, it has not been possible to undertake screening assessments which address these detailed aspect of future development proposals.

A school is proposed in Plot RB05b. Although it is possible to derive site- and end-use specific screening criteria for school use, this requires an understanding of the type of school (infant, primary, secondary), the extent of any soft landscaping within the school development and other factors. Currently, these details are not available and therefore, soil data for the Plot RB05b area has also been screened against residential without plant uptake use.

The results of this human health screening assessment are presented in Appendix C and summarised on Drawing 13. A total of 154 soil samples were screened against residential without plant uptake across the

three investigations. The screening identified several samples where contaminants exceeded the relevant human health GAC as summarised in Table 27.

Table 27: Soil samples exceeding human health GACs for residential development without plant uptake

Contaminant	GAC (mg/kg)	No. of samples	Conc range (mg/kg)	Exceedances				
				No.	Location ID	Depth (mbgl)	Conc (mg/kg)	Area
Arsenic	39.9	132	<1 to 89	17	TP109	1.3m	71	RB Plateau
					TP112	2.3m	44	RB Plateau
					TP115	0.3m	40	RB Plateau
					TP115	3.3m	40	RB Plateau
					BH207	1.2m	53	RB Plateau
					BH211A	9.0m	50	RB Plateau
					BH211A	10.5m	40	RB Plateau
					TP212	1.0m	89	RB Plateau
					TP212	3.0m	40	RB Plateau
					WS201	1.0m	44	RB Plateau
					WS205	2.0m	65	RB Plateau
					BH303	7.5m	45	RB Plateau
					BH327	7.4m	42	RB Plateau
					BH328	2.4m	59	RB Plateau
					TP306	0.5m	40	RB Plateau
					OP01	0.1m	58	RB Plateau
					SoilSamp10	0.0m	45	RB Plateau
Beryllium	1.7	129	<0.2 to 3.9	25	BH104	0.7m	2.8	RB Plateau
					BH104	9.7m	2.1	RB Plateau
					TP109	0.3m	2.6	RB Plateau
					TP109	1.3m	2.1	RB Plateau
					TP109	3.3m	2.0	RB Plateau
					TP110	1.3m	1.9	RB Plateau
					TP112	0.3m	2.2	RB Plateau
					TP115	0.3m	2.2	RB Plateau
					TP115	1.3m	3.9	RB Plateau
					TP115	3.3m	2.3	RB Plateau
					TP120	1.0m	1.9	RB Plateau
					BH207	1.2m	2.6	RB Plateau
					BH207	10.2m	3.9	RB Plateau
					BH208	0.3m	1.8	RB Plateau
					BH208	8.2m	2.0	RB Plateau
					BH209	1.2m	2.1	RB Plateau
					BH211A	2.2m	1.8	RB Plateau
					BH211A	5.2m	2.0	RB Plateau
					TP202	0.3m	1.9	RB Plateau
					WS205	2.0m	2.3	RB Plateau
					WS212	0.2m	2.3	RB Plateau

Contaminant	GAC (mg/kg)	No. of samples	Conc range (mg/kg)	Exceedances				
				No.	Location ID	Depth (mbgl)	Conc (mg/kg)	Area
					BH326	1.4m	3.6	RB Plateau
					BH327	7.4m	2.4	RB Plateau
					TP305	3.0m	3.0	RB Plateau
					TP306	0.5m	1.9	RB Plateau
Lead	310	132	6.4 to 1400	19	BH102	0.3m	530	RB Plateau
					TP109	0.3m	1300	RB Plateau
					TP109	3.3m	330	RB Plateau
					TP110	1.3m	520	RB Plateau
					TP115	0.3m	460	RB Plateau
					TP115	3.3m	520	RB Plateau
					BH211A	2.2m	490	RB Plateau
					BH211A	5.2m	600	RB Plateau
					BH211A	9.0m	460	RB Plateau
					TP202	0.3m	460	RB Plateau
					TP210	1.0m	420	RB Plateau
					WS205	2.0m	1400	RB Plateau
					BH304	0.5m	547	RB Plateau
					BH324	1.0m	320	RB Plateau
					BH327	7.4m	1020	RB Plateau
					TP306	0.5m	687	RB Plateau
					OP01	0.1m	477	RB Plateau
					SoilSamp05	0.0m	683	RB Plateau
					SoilSamp10	0.0m	356	RB Plateau
Cyanide	24	132	<0.1 to 68	2	TP115	3.3m	68	RB Plateau
					BH211A	9.0m	47	RB Plateau
Aromatics C21-35	1930	90	<1 to 3710	1	TT302	0.3m	3710	RB05b School
Dibenz-a-h-anthracene	0.32	97	<0.03 to 5.51	7	TP206	0.3m	0.35	RB05b School
					TP210	0.3m	0.76	RB Plateau
					TP213	0.3m	0.75	RB Plateau
					TP213	2.0m	0.46	RB Plateau
					BH301D	2.9m	0.47	RB05b School
					BH305	1.0m	0.53	RB Plateau
					TT302	0.3m	5.51	RB05b School
Benzo(a) anthracene	15	97	<0.03 to 39.6	1	TT302	0.3m	39.6	RB05b School
Benzo(a) pyrene	3.23	97	<0.03 to 39.6	7	TP206	0.3m	5.6	RB05b School
					TP210	0.3m	5.6	RB Plateau
					TP213	0.3m	6.2	RB Plateau
					TP213	2.0m	5.0	RB Plateau

Contaminant	GAC (mg/kg)	No. of samples	Conc range (mg/kg)	Exceedances				
				No.	Location ID	Depth (mbgl)	Conc (mg/kg)	Area
					BH301D	2.9m	4.7	RB05b School
					BH305	1.0m	4.3	RB Plateau
					TT302	0.3m	39.6	RB05b School
Benzo(b) fluoranthene	4.06	97	<0.03 to 35.8	5	TP206	0.3m	4.2	RB05b School
					TP210	0.3m	7.1	RB Plateau
					TP213	0.3m	5.9	RB Plateau
					TP305	1.0m	5.1	RB Plateau
					TT302	0.3m	35.8	RB05b School
Chrysene	31.9	97	<0.03 to 60	1	TT302	0.3m	60	RB05b School

6.2.2.3 Soil screening results – public open space (parks) screening criteria

The main focus of non-residential development in the current proposed masterplan is St Catherine's Wood (excluding Plot RB05b). Although the Red Bank Terrace is to include areas of residential development, these areas fall outside the current planning application boundary. The areas of Red Bank Terrace shaded blue on Figure 2 are therefore proposed as predominantly public open space.

For both the area of Red Bank Terrace within the site and St Catherine's Wood, the results of soil analysis data from the 2019, 2021 and 2022 GIs have been compared to the human health generic assessment criteria (GAC) derived by Arup for a public open space end use (parks).

The results of the human health screening assessment for the St Catherine's Wood and Red Bank Terrace areas are presented in Appendix C and summarised in Drawing 14. A total of 81 soil samples were screened across the three investigations. The screening identified several samples where contaminants exceeded the relevant human health GAC as summarised in Table 28.

Table 28: Soil samples exceeding human health GACs for public open space (parks)

Contaminant	GAC (mg/kg)	No. of samples	Conc range (mg/kg)	Exceedances				
				No.	Location ID	Depth (mbgl)	Conc (mg/kg)	Area
Arsenic	168	57	<1 to 180	1	TP219	1.0m	180	RB Terrace
Lead	1300	57	4 to 2250	4	BH110	3.0m	1900	RB Terrace
					TP120	0.3m	2100	RB Terrace
					BH306	0.5m	1800	RB Terrace
					BH314	7.5m	2250	RB Terrace
Aromatics C16-21	7770	47	<0.6 to 10900	1	TT303	0.4m	10900	St Catherine's Wood
Aromatics C21-35	7850	47	<1 to 27800	1	TT303	0.4m	27800	St Catherine's Wood
Dibenz-a-h-anthracene	1.36	49	<0.03 to 19.2	4	BH213	1.2m	5.0	RB Terrace
					BH301	1.0m	2.7	St Catherine's Wood
					BH323	0.5m	3.6	St Catherine's Wood
					TT303	0.4m	19.2	St Catherine's Wood

Contaminant	GAC (mg/kg)	No. of samples	Conc range (mg/kg)	Exceedances				
				No.	Location ID	Depth (mbgl)	Conc (mg/kg)	Area
Benzo(a) anthracene	62.5	49	<0.03 to 205	1	TT303	0.4m	205	St Catherine's Wood
Benzo(a) pyrene	13.2	49	<0.03 to 123	4	BH213 BH301 BH323 TT303	1.2m 1.0m 0.5m 0.4m	26.0 24.7 22.8 123.0	RB Terrace St Catherine's Wood St Catherine's Wood St Catherine's Wood
Benzo(b) fluoranthene	16.3	49	<0.03 to 111	3	BH213 BH323 TT303	1.2m 0.5m 0.4m	37.0 24.2 111.0	RB Terrace St Catherine's Wood St Catherine's Wood
Chrysene	121	49	<0.03 to 409	1	TT303	0.4m	409	St Catherine's Wood
PCB BZ 114	0.000004	10	<0.005 to 0.023	1	BH307	1.0m	0.023	RB Terrace
PCB BZ 157	0.000008	10	<0.005 to 0.039	2	BH307 BH308	1.0m 1.0m	0.039 0.007	RB Terrace RB Terrace
PCB BZ 77	0.000016	10	<0.005 to 0.031	1	BH307	1.0m	0.031	RB Terrace

6.2.2.4 Soil screening results – asbestos

The methods used to assess the results of asbestos content of soil samples differ to those used for other contaminants. As a first step, soil samples undergo laboratory assessment for the presence of asbestos. Samples which proved positive for the presence of asbestos underwent a further quantification stage. The findings of this assessment are presented in Table 29 and Drawing 15.

Table 29: Soil samples in which the presence of asbestos was identified.

No. of samples	% range	Exceedances				
		No.	Location ID	Depth (mbgl)	Type and %	Area
113	<0.001 to 0.012	15	BH110	0.3m	Amosite fibres – <0.001	RB Terrace
			BH112	0.3m	Amosite fibres – <0.001	RB Terrace
			TP105	0.3m	Chrysotile – microscopic board fragments – 0.006	St Catherine's Wood
			TP120	1.0m	Chrysotile – microscopic ACM fragments – 0.002	RB Terrace
			WS103	1.0m	Amosite fibres – <0.001	St Catherine's Wood
			BH212A	0.6m	Chrysotile fibres – 0.005	RB Terrace
			TP206	0.3m	Chrysotile fibres – 0.007	St Catherine's Wood (RB05b school)
			TP210	1.0m	Chrysotile fibres – 0.011	RB Plateau

No. of samples	% range	Exceedances				
		No.	Location ID	Depth (mbgl)	Type and %	Area
			WS207	1.0m	Chrysotile fibres – 0.012	RB Plateau
			BH301	1.0m	Loose fibres – 0.006	St Catherine's Wood
			BH315	0.5m	Loose fibres – <0.001	St Catherine's Wood
			BH323	0.5m	Loose insulation – 0.004	St Catherine's Wood
			TT302	0.3m	Cement – 1.539	St Catherine's Wood (RB05b school)
			OP01	0.1m	Loose insulation – <0.001	RB Plateau
			SoilSamp07	0.0m	Loose fibres – 0.011	RB Plateau

Asbestos has been identified in all areas of the site including the Red Bank Plateau, Red Bank Terrace and St Catherine's Wood areas. The asbestos identified was generally present as fibres, with both chrysotile and amosite identified. The possibility exists that asbestos may be present in soils between exploratory locations.

6.2.2.5 Summary of soil screening – general

In Red Bank Plateau and Plot RB05b, when the results of analysis have been screened against the selected residential with plant uptake GACs, exceedances were identified at a range of depths in made ground. The following contaminants have been found to be present at concentrations above their respective screening criteria:

- Arsenic, beryllium, lead, cyanide, asbestos, PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and dibenz(ah)anthracene) and TPH (aromatic C21-35).

In the St Catherine's Wood area (excluding the RB05b plot) and Red Bank Terrace, when the results of analysis have been screened against the selected public open space (parks) GACs, most exceedances were identified with the upper 1m of made ground. The following contaminants have been found to be present at concentrations above their respective screening criteria:

- Arsenic, lead, asbestos, TPHs (aromatic C16-21 and aromatic C21-35), PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and dibenz(ah)anthracene) and PCBs (PCB BZ 114, PCB BZ 157, and PCB BZ 77).

Widespread exceedances of the GACs for beryllium and lead were noted across the entire area covered by the ground investigation. For beryllium, exceedances are generally only marginally in excess of the GAC. Elevated concentrations of arsenic were generally only observed on the Red Bank Plateau area. Arsenic can be associated with former railway sites as a result of the deposition of boiler ash and clinker, which can also contain PAH compounds. In areas of soft landscaping and gardens a risk to future site users could arise from exposure to these contaminants in soils. However, these risks could be addressed by a suitably designed clean cover system (see Section 9.2).

Despite only one exceedance of TPH against residential screening criteria, and two exceedances of TPHs against public open space, 14 samples exceeded the saturation limit for TPHs (Drawing 20). A number of these samples were in the areas of the former gasworks, carriage shed and at depth, in the southern infilled former reservoir. A number of other instances were generally noted in near-surface soils across the site (Drawing 20).

No exceedances of BTEX (benzene, toluene, ethylbenzene, xylene) or VOCs were identified during the various phases of analysis.

Visible evidence of asbestos fibres or asbestos containing materials (ACM) was recorded in 15 of 113 samples across the site, with a maximum recorded concentration of 1.539%. Appropriate measures will be required to mitigate the risks posed by asbestos both during construction and in the long term to protect future residents, neighbours of the site and maintenance workers.

The screening assessments indicate there is a potential risk to construction workers who may come into direct contact with contaminated soils, particularly during earthworks. In addition, there is a risk to construction workers and site neighbours associated with the potential release of asbestos fibres during construction. Appropriate mitigation measures will need to be applied to protect construction workers and site neighbours during construction works including good site practices such as dust suppression, designed and implemented by a competent contractor. Measures will also be required to mitigate asbestos risk in the post-construction phase, such as clean cover system in soft landscaped areas.

In the period between the completion of the HIF IW and development of individual plots, risks to site users and neighbours must be considered. There remains a potential risk from contaminants in the exposed made ground soils. The plausible pollution pathways associated with these risks include direct contact with contaminated soils by unauthorised users of the site and the risk to neighbours of the site associated with dust arising from the surface of the site (potentially including asbestos fibres) during periods of dry weather. Measures to address these risks, are considered in Section 9.2.

6.2.2.6 Summary of soil screening – specific site features

6.2.3 Former gasworks area

GI has been undertaken in the area of the former gasworks in the north east of the site (Section 3.6.1 and Drawing 09). In addition to hydrocarbons and a metallic blue sand material reported in this area during earlier phases of GI (TP204, TP205 and TP206A), oil was identified in TT302 associated with a steel vessel encountered during the 2022 investigation. Blue-coloured material in a gasworks context, is commonly associated with cyanide contamination. However, there were no exceedances of cyanide or any metals encountered within the former gasworks area, with cyanide levels only marginally exceeding the laboratory limit of detection.

The former gasworks straddles the boundary between the proposed school site (Plot RB05b) and the public open space areas in St Catherine's Wood (Figure 4). For this reason, the results of chemical analysis of samples from the former gasworks area have been screened against two sets of generic screening criteria. 15 samples have been screened against public open space (parks), and six samples were screened against residential with no plant uptake criteria. Of these, two samples exceeded the public open space criteria:

- TT303 at 0.35m showed significant TPH contamination, with total TPH exceeding 53,000 mg/kg.
- BH301 at 1m exceeded the public open space screening criteria for two PAHs.

In addition, three samples exceeded the residential criteria:

- BH301D at 2.9m exceeded the residential criteria for two PAHs.
- TT302 at 0.35m identified exceedances in TPH and several PAHs.
- TP206 at 0.3m also exceeded the residential screening criteria for three PAHs.

Asbestos was encountered in five exploratory holes within the area, at a depth of 1m or less (TP105, TP206, BH310, BH315 and TT302 - Table 29).

The existing ground investigation data, coupled with the historical presence of a large gasworks at Gould Street, approximately 500m to the south-west, and gasholders at Travis Island, suggests that it was unlikely that the former gasworks was a site of town-gas manufacture and that it operated as a storage facility for the rail operations. Contamination associated with the gasworks is not widespread but is indicative of localised areas of impact that will require remediation.

6.2.4 Infilled meander bend

A meander bend of the River Irk was infilled during the construction of the Red Bank Plateau (Section 3.6.2**)**. BH204, BH315 and BH320 encountered potential alluvial soils, with strong hydrocarbon odours noted in BH320. BH203, BH301 and BH302 also targeted this meander bend but did not encounter clear evidence for this infilled feature.

No exceedances of the public open space screening criteria were recorded in the exploratory holes that targeted the meander bend, except from evidence of asbestos at 0.5m in BH315. Exceedances of PAHs were recorded in BH301 at 1m bgl, however given the depth to the former meander bend, these exceedances are more likely to be associated with the overlying former gasworks.

6.2.5 Infilled former mill race

Evidence for the infilled former mill race has been identified in a number of boreholes (Section 3.6.3 and Drawing 09).

BH207, BH303 and BH304 are within the Red Bank Plateau and were compared against residential screening criteria and the following was noted:

- BH303 identified a slight exceedance of arsenic at 3.5m bgl.
- BH304 exceeded lead criteria at 0.5m bgl.
- BH207 exceeded beryllium criteria at 10.2m bgl.

The exceedances for arsenic and beryllium are not within the zone where human contact would be expected with the infill materials, therefore they are not considered likely to pose a risk to human health if they remain at that depth.

BH306 falls within the Red Bank Terrace area and was compared against public open space criteria. An exceedance of lead was noted at 0.5m bgl.

6.2.6 Infilled former reservoirs

Two former reservoirs can be seen on historic maps in the southwest of the site (Section 3.6.4).

BH210 in the northern reservoir is within the Red Bank Plateau area and was therefore compared against residential screening criteria. No exceedances of contaminants we identified in the northern reservoir.

The Red Bank Plateau and Red Bank Terrace boundaries intersect the southern reservoir and therefore BH211A was compared against residential criteria and BH314 against public open space criteria. Both BH211A and BH314 in the southern reservoir identified strong hydrocarbon odours at the base of the made ground. BH211 exceeded several residential criteria at 2.2m, 5.2m, 9m and 10.5m depths, including arsenic, beryllium, lead, and cyanide. BH314 exceeded public open space criteria for lead at 7.5m bgl. At these depths, the risk to future site users from this exceedance is considered to be low. The southern reservoir is outside the area of proposed regrading for Plots RB02 and RB03 and therefore, the risks associated with the contamination identified at depth will not change following the HIF Infrastructure Works.

6.2.7 Stockpiles

A number of former stockpiles around the site were identified during the site work and through inspection of aerial photographs (Section 3.6.10). Soils at the location of these former stockpiles were sampled for analysis.

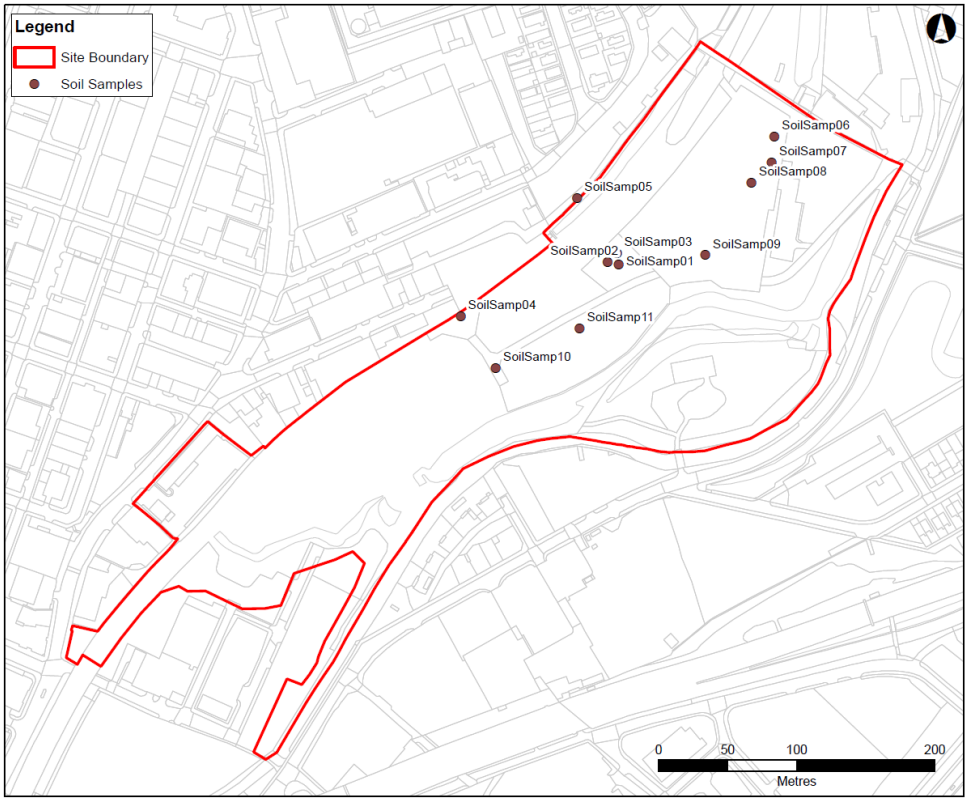

Figure 17: Locations of soil stockpile samples

SoilSamp05 and SoilSamp10 showed marginally elevated levels of lead when compared against residential screening criteria, and SoilSamp10 also exceeded the arsenic threshold. However, both samples would not exceed public open space criteria were they to be re-used elsewhere on the site.

Soilsamp07 was found to contain asbestos (loose fibres).

6.2.8 Controlled waters screening assessment

6.2.8.1 Controlled waters assessment criteria

The initial conceptual site model identified the following controlled waters receptors:

- Groundwater within the bedrock aquifers:
  - principal aquifers (Chester Pebble Beds and Collyhurst Sandstone)
  - Manchester Marls Formation (secondary B aquifer)
- Groundwater within the superficial deposits: alluvium (secondary (A) aquifer) and glacial till (secondary (undifferentiated) aquifer), and
- The River Irk, which forms the south-eastern boundary of the planning application site.

Groundwater and soil leachate test results have been screened against criteria based on published freshwater Environmental Quality Standards (EQS) and UK drinking water standards (DWS) to identify potential contaminants of concern. Where no EQS values are available the results have been compared against EU or UK drinking water standards (DWS) or World Health Organisation standards (WHO). The water quality standards applicable to the above receptors are discussed, with the screening assessment, in Appendix C.

Where the screening criteria are hardness dependent, the hardness of the receiving watercourse (the River Irk) has been used, which was determined by testing during the 2021, 2022 and river works ground investigations to be 166mg/l. The bioavailable concentrations of certain contaminants were estimated using the M-BAT tool, as noted in Appendix C.

6.2.8.2 Controlled waters screening

Groundwater samples were obtained from five monitoring wells installed within the sandstone bedrock principal aquifers, two installed within the mudstone secondary B aquifer and 18 installed within the superficial deposits (made ground, glacial till and alluvium).

Two groundwater samples were taken from trial pits where oily groundwater was observed (TP202B and TP202C), considered to be perched groundwater within a remnant structure (carriage shed). Another sample of oily groundwater was collected from TT301 during the 2022 ground investigation. The results of the groundwater screening assessment are presented below, summarised on Drawing 16 and provided in full (together with details of the screening criteria that have been applied) in Appendix C.

A total of 54 groundwater samples were screened.

Surface water samples from the River Irk were collected from two locations in 2021 and three locations during the 2022 ground investigation. These locations are shown in Figure 18.

The contaminants which exceed the screening criteria are discussed below.

Bedrock groundwater quality

Bedrock groundwater quality was measured in samples from seven locations within the planning application site, in monitoring wells with response zones in both the mudstone secondary B aquifer and the sandstone principal aquifers. The results of the bedrock groundwater screening are summarised in Table 30, with sample locations shown on Drawing 02.

Groundwater level monitoring indicates that the general groundwater flow direction in sandstone units beneath the site is towards the river (i.e. roughly north-south) and comparison with river levels (Section 4.7) suggests that the sandstone groundwater is discharging into the River Irk. A large number of exceedances are identified for manganese, zinc, cadmium, lead, nickel and ammoniacal nitrogen. Isolated exceedances of other screening criteria are noted for chromium, copper, cyanides, TPH and PAHs.

The monitoring wells along the northern site boundary (BH201, BH205, BH209) within the Manchester Marl typically identify exceedances of the screening criteria for manganese, cadmium and zinc.

A number of exceedances of the screening criteria were noted in BH203 in Collyhurst Sandstone, which was located close to the area of the former gasworks in the St Catherine's Wood area. The made ground is particularly thick in this location and directly overlies bedrock. Contaminants observed in BH203 include copper, lead, thiocyanate, fluoranthene, and benzo(a)pyrene, which are consistent with contaminants that are associated with former gasworks. No petroleum hydrocarbons (TPH) were noted in the groundwater sample tested from this location.

Exceedances of the screening criteria were also noted in BH212 (Chester Pebble Beds), which is located in the Red Bank Terrace area, close to the River Irk. Exceedances of the screening criteria for cadmium, chromium, copper, lead, manganese, nickel, vanadium, zinc, cyanides and PAHs. Exceedances are generally marginal and not indicative of gross contamination, with the exception of complex cyanide. The borehole log indicates that made ground directly overlies sandstone at this location, and the Red Bank Terrace area has a history of contaminative land uses including dye works and a chemical works.

Table 30: Exceedances of groundwater screening criteria in bedrock

Contaminant	GAC (mg/l)	No. of samples	Exceedances				
			No.	Location	Conc (mg/l)	Formation	Area
Antimony	0.005	20	1	BH212	0.0059	Chester Pebble Beds	RB Terrace
Cadmium	0.00015	20	13	BH201	0.0044, 0.0205, 0.0004	Manchester Marl	RB Plateau
				BH203	0.0002, 0.0003	Collyhurst Sandstone	St C Wood
				BH205	0.0003, 0.010, 0.0200, 0.0006	Manchester Marl	RB Plateau

Contaminant	GAC (mg/l)	No. of samples	Exceedances				
			No.	Location	Conc (mg/l)	Formation	Area
				BH209	0.0010, 0.0003	Manchester Marl	RB Plateau
				BH212	0.0038, 0.0002	Chester Pebble Beds	RB Terrace
Chromium	0.0047	20	3	BH201	0.006	Manchester Marl	RB Plateau
				BH205	0.007	Manchester Marl	RB Plateau
				BH212	0.045	Chester Pebble Beds	RB Terrace
Copper	0.0122	20	5	BH201	0.020	Manchester Marl	RB Plateau
				BH203	0.043	Collyhurst Sandstone	St C Wood
				BH205	0.059	Manchester Marl	RB Plateau
				BH212	0.078	Chester Pebble Beds	RB Terrace
				BH310	0.013	Collyhurst Sandstone	St C Wood
Lead	0.00958	20	6	BH201	0.039	Manchester Marl	RB Plateau
				BH203	0.088	Collyhurst Sandstone	St C Wood
				BH205	0.072, 0.010	Manchester Marl	RB Plateau
				BH212	0.866	Chester Pebble Beds	RB Terrace
				BH310	0.025	Collyhurst Sandstone	St C Wood
Manganese	0.2659	20	17	BH201	5.55, 8.38, 0.39	Manchester Marl	RB Plateau
				BH203	0.72, 0.81, 0.66	Collyhurst Sandstone	St C Wood
				BH205	0.28, 15.20, 11.60, 0.46	Manchester Marl	RB Plateau
				BH209	0.75, 1.60	Manchester Marl	RB Plateau
				BH210	0.75, 0.85	Chester Pebble Beds	RB Plateau
				BH212	0.79	Chester Pebble Beds	RB Terrace
				BH310	1.92, 1.31	Collyhurst Sandstone	St C Wood
Nickel	0.01162	20	8	BH201	0.072, 0.043	Manchester Marl	RB Plateau
				BH203	0.020	Collyhurst Sandstone	St C Wood
				BH205	0.121, 0.062	Manchester Marl	RB Plateau
				BH209	0.014, 0.012	Manchester Marl	RB Plateau
				BH212	0.024	Chester Pebble Beds	RB Terrace
Vanadium	0.02	20	1	BH212	0.03	Chester Pebble Beds	RB Terrace
Zinc	0.02113	20	12	BH201	0.439, 1.443	Manchester Marl	RB Plateau
				BH203	0.137, 0.055	Collyhurst Sandstone	St C Wood
				BH205	3.077, 2.590, 0.024	Manchester Marl	RB Plateau
				BH209	0.100	Manchester Marl	RB Plateau
				BH212	0.923, 0.022	Chester Pebble Beds	RB Terrace
				BH310	0.038, 0.024	Collyhurst Sandstone	St C Wood
Total Cyanide	0.001	20	6	BH205	0.098, 0.024	Manchester Marl	RB Plateau
				BH212	5.246, 0.290	Chester Pebble Beds	RB Terrace
				BH310	0.010, 0.009	Collyhurst Sandstone	St C Wood

Contaminant	GAC (mg/l)	No. of samples	Exceedances				
			No.	Location	Conc (mg/l)	Formation	Area
Complex Cyanide	0.001	7	5	BH203 BH205 BH212 BH310	0.001 0.024 5.112, 0.360 0.009	Collyhurst Sandstone Manchester Marl Chester Pebble Beds Collyhurst Sandstone	St C Wood RB Plateau RB Terrace St C Wood
Free Cyanide	0.001	7	2	BH212	0.134, 0.260	Chester Pebble Beds	RB Terrace
Thiocyanate	0.001	7	5	BH203 BH205 BH212 BH310	1.5, 0.1 0.2 0.7 0.1	Collyhurst Sandstone Manchester Marl Chester Pebble Beds Collyhurst Sandstone	St C Wood RB Plateau RB Terrace St C Wood
Ammoniacal Nitrogen as N	0.6	20	7	BH203 BH210 BH310	3.81, 4.04, 1.80 2.50, 7.40 2.27, 1.22	Collyhurst Sandstone Chester Pebble Beds Chester Pebble Beds	St C Wood RB Plateau St C Wood
Aliphatics C12-16	0.3	15	2	BH310	3.319, 1.173	Chester Pebble Beds	St C Wood
Aromatics C10-12	0.09	15	1	BH310	0.11	Chester Pebble Beds	St C Wood
Aromatics C12-16	0.09	15	2	BH310	1.349, 0.436	Chester Pebble Beds	St C Wood
Fluoranthene	0.000006	15	9	BH203 BH205 BH210 BH212 BH310	0.00031, 0.00002, 0.00006 0.00150, 0.00007 0.00002 0.00013, 0.00001 0.00004	Collyhurst Sandstone Manchester Marl Chester Pebble Beds Chester Pebble Beds Collyhurst Sandstone	St C Wood RB Plateau RB Plateau RB Terrace St C Wood
Naphthalene	0.002	15	1	BH203	0.0085	Collyhurst Sandstone	St C Wood
Anthracene	0.0001	15	2	BH203 BH205	0.00012 0.00029	Collyhurst Sandstone Manchester Marl	St C Wood RB Plateau
Benzo(a)pyrene	1.7E-7	15	5	BH203 BH205 BH212 BH310	0.00030 0.00101, 0.00005 0.00006 0.00002	Collyhurst Sandstone Manchester Marl Chester Pebble Beds Collyhurst Sandstone	St C Wood RB Plateau RB Terrace St C Wood

Made ground groundwater quality

Groundwater was sampled from the made ground in 11 discrete locations, some of which were sampled up to three times, providing a total of 23 samples of groundwater from made ground which have been analysed. The results of the screening are summarised in Table 31 below.

As noted in the bedrock aquifers, concentrations of manganese were noted in excess of the screening value in all but one of the samples analysed. The upper 95th percentile concentrations of lead, nickel and zinc exceed the screening criteria, suggesting more widespread contamination of the groundwater in the made ground. Ammoniacal nitrogen is also noted to be present at elevated concentrations in all but one sample.

Oily groundwater was noted around the former carriage shed on Red Bank Plateau associated with the old carriage shed structure. Samples of groundwater taken from trial pits where free product was encountered (TP202B, TP202C and TT301) are noted to contain elevated concentrations of PAHs (TP202B, TP202C, TT301) and TPH (TT301), although it is acknowledged that sampling from trial pits is not best practice. Monitoring well WS201B was installed close to the former carriage shed area and also identified elevated PAH in the made ground groundwater. It is thought that the remnant structure is hydraulically isolated, and the groundwater contamination is localised.

An iridescent sheen on groundwater in the made ground was noted around the former gasworks in the St Catherine's Wood area in TP204, TP205 and TP206A and oil was present in TT302, associated with a remnant steel vessel which was found to contain oil. Monitoring well BH204 installed in this part of the site detected metals and PAH in the groundwater at concentrations in excess of the screening criteria however TPH did not exceed the criteria. Ammoniacal nitrogen was present in groundwater marginally in excess of the screening criteria at this location.

A hydrocarbon odour was noted in the base of the made ground at BH207. This borehole is believed to be located within a former mill race. Glacial till is absent in this location and the made ground directly overlies the Manchester Marl bedrock. A groundwater monitoring well with a response zone in the made ground did not identify any detectable concentrations of TPH, PAH, volatile or semi-volatile organics in groundwater at this location.

A number of contaminants were identified in excess of the screening criteria in BH211A, which targeted a former reservoir beneath Red Bank Plateau. Material with a strong hydrocarbon odour was encountered at the base of the made ground in this borehole at a depth of over 10m below ground level. The made ground was found to rest directly on sandstone in this location, glacial till was absent. Groundwater was tested for a range of contaminants and identified elevated concentrations of ammonia, PAH, complex cyanide and metals including lead. It is possible that this contamination results from sediment that accumulated at the base of this reservoir during periods of industrial use, or materials that were used to infill the reservoir when it became disused.

Table 31: Exceedances of water screening criteria in made ground

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Concentration (mg/l)	Area
Antimony	0.005	21	1	BH103	0.0105	RB Plateau
Cadmium	0.00015	21	10	BH103 BH204 BH207 BH208 WS201B WS207	0.0006 0.0115 0.0002, 0.0009 0.0002, 0.0009 0.0009, 0.0007 0.0006, 0.0010	RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau
Chromium	0.0047	21	1	BH103	0.0078	RB Plateau
Lead	0.00958	21	1	BH102	0.149	RB Plateau
Manganese	0.2659	21	16	BH102 BH103 BH204 BH207 BH208 BH211A WS201B WS207	3.61, 2.29 2.75, 13.20, 15.00 1.95, 3.36, 1.80 1.70 0.39, 0.67 0.42, 3.60 0.63 0.34	RB Plateau RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau RB Plateau

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Concentration (mg/l)	Area
				TT301	8.62	St C Wood
Nickel	0.01607	21	4	BH102 BH103 BH211A	0.017 0.025, 0.040 0.020	RB Plateau RB Plateau RB Plateau
Selenium	0.01	21	1	WS201B	0.032	RB Plateau
Zinc	0.03728	21	9	BH102 BH204 BH207 BH211A WS201B WS207	0.055 1.606 0.077, 0.150 0.046 0.057, 0.092 0.100, 0.093	RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau
Total Cyanide	0.001	21	5	BH102 BH103 BH211A TT301	0.005 0.056, 0.017 3.861 0.005	RB Plateau RB Plateau RB Plateau St C Wood
Complex Cyanide	0.001	9	5	BH103 BH211A TT301	0.017 0.009, 3.854, 0.003 0.005	RB Plateau RB Plateau St C Wood
Free Cyanide	0.001	9	2	BH211A TT301	0.007 0.005	RB Plateau St C Wood
Thiocyanate	0.001	9	3	BH102 BH211A TT301	0.3 0.2 0.1	RB Plateau RB Plateau St C Wood
Ammoniacal Nitrogen as N	0.3	21	14	BH102 BH103 BH204 BH208 BH211A WS201B WS207 TT301	1.9, 2.2 3.8, 3.1, 1.9 0.4, 0.5 1.3, 1.0 5.6, 3.7, 2.7 22.0 16.0, 18.0 1.35	RB Plateau RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau St C Wood
Aliphatics C10-12	0.3	17	2	BH102	38.00, 0.76	RB Plateau
Aliphatics C12-16	0.3	17	3	BH102 TT301	81.8, 1.9 2.99	RB Plateau St C Wood
Aliphatics C8-10	0.3	17	2	BH102	21.400, 0.406	RB Plateau
Aromatics C10-12	0.09	17	3	BH102 TT301	21.300, 0.979 0.125	RB Plateau St C Wood

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Concentration (mg/l)	Area
Aromatics C12-16	0.09	17	3	BH102 TT301	48.100, 1.677 3.26	RB Plateau St C Wood
Aromatics C16-21	0.09	17	3	BH102 TT301	29.000, 0.841 3.28	RB Plateau St C Wood
Aromatics C21-35	0.09	17	3	BH102 TT301	12.40, 0.27 1.12	RB Plateau St C Wood
Aromatics C8-10	0.3	17	1	BH102	9.0	RB Plateau
Fluoranthene	0.000006	17	14	BH102 BH103 BH204 BH208 BH211A TP202B TP202C WS201B WS207 TT301	0.00126, 0.00352, 0.00006 0.00006, 0.00004, 0.00002 0.00005 0.00003 0.00004, 0.00001 0.01948 0.00734 0.00002 0.00038 0.00453	RB Plateau RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau RB Plateau RB Plateau St C Wood
Napththalene	0.002	17	1	BH204	0.013	St C Wood
Anthracene	0.0001	17	6	BH102 BH103 TP202B TP202C TT301	0.00141, 0.00389 0.00011 0.00281 0.00103 0.00353	RB Plateau RB Plateau RB Plateau RB Plateau St C Wood
Benzo(a)pyrene	1.7E-7	17	9	BH102 BH103 BH204 BH208 BH211A TP202B TP202C TT301	0.00038, 0.00086 0.00001 0.00003 0.00005 0.00002 0.04924 0.00633 0.00217	RB Plateau RB Plateau St C Wood RB Plateau RB Plateau RB Plateau RB Plateau St C Wood

Glacial till groundwater quality

Groundwater was sampled in the glacial till in six locations, with some sampled up to four times, providing a total of 10 samples of groundwater which have been analysed. The results of the screening are summarised in

Table 32 below. Glacial till was generally only encountered beneath the Red Bank Plateau area and was absent close to the river (Figure 5).

As noted in the groundwater samples from the bedrock and made ground, manganese concentrations exceed the screening criteria in nearly all samples taken from the glacial till. As for made ground, concentrations of

copper, lead and zinc in the glacial till groundwater exceed the screening criteria within the Red Bank Plateau.

Generally lower concentrations of contaminants are noted in the groundwater within the glacial till compared to the made ground, which indicates that the glacial till may be preventing significant vertical migration of perched groundwater contamination from the made ground, where the till is present.

A number of contaminants were identified in excess of the screening criteria in BH314, which targeted a former reservoir beneath Red Bank Terrace. A strong hydrocarbon odour was noted at 8.2 to 9.3 mbgl. It is possible that this contamination accumulated within the reservoir during periods of industrial use.

Table 32: Exceedances of water screening criteria in glacial till

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Concentration (mg/l)	Area
Antimony	0.005	10	1	BH105	0.008	St C Wood
Arsenic	0.05	10	1	BH202	0.066	RB Plateau
Cadmium	0.00015	10	7	BH105 BH202 BH206 BH314	0.0035, 0.0012 0.0003, 0.0127 0.000631, 0.0007 0.0013	St C Wood RB Plateau RB Plateau RB Terrace
Chromium	0.0047	10	4	BH105 BH202 BH314	0.022, 0.013 0.005 0.035	St C Wood RB Plateau RB Terrace
Copper	0.01222	10	4	BH105 BH202 BH314	0.104, 0.050 0.025 0.065	St C Wood RB Plateau RB Terrace
Iron (dissolved)	1	1	1	BH202	5.9	RB Plateau
Lead	0.00958	10	4	BH105 BH202 BH314	0.063, 0.041 0.069 0.143	St C Wood RB Plateau RB Terrace
Manganese	0.2659	10	9	BH105 BH202 BH206 BH314	0.82, 6.91, 2.45, 1.25, 16.10, 9.64 0.85, 1.50 11.70	St C Wood RB Plateau RB Plateau RB Terrace
Nickel	0.01162	10	5	BH105 BH202 BH314	0.053, 0.028 0.088, 0.056 0.077	St C Wood RB Plateau RB Terrace
Selenium	0.01	10	1	BH105	0.018	St C Wood
Vanadium	0.02	10	2	BH105 BH202	0.03 0.03	St C Wood RB Plateau
Zinc	0.02113	10	8	BH105 BH202	0.446, 0.183 0.335, 1.584, 0.160	St C Wood RB Plateau

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Concentration (mg/l)	Area
				BH206 BH314	0.032, 0.033 0.265	RB Plateau RB Terrace
Cyanide	0.001	10	1	BH314	0.328	RB Terrace
Complex Cyanide	0.001	1	1	BH314	0.328	RB Terrace
Thiocyanate	0.0001	1	1	BH314	0.2	RB Terrace
Chloride	250	10	1	BH202	320	RB Plateau
Ammoniacal nitrogen as N	0.6	10	2	BH105 BH314	1.3 49.0	St C Wood RB Terrace
Fluoranthene	0.000006	8	3	BH202 BH314	0.00500, 0.00003 0.00065	RB Plateau RB Terrace
Anthracene	0.0001	8	1	BH202	0.00051	RB Plateau
Benzo(a)pyrene	1.7E-7	8	3	BH202 BH314	0.00242, 0.00001 0.00031	RB Plateau RB Terrace

Alluvium groundwater quality

Groundwater quality was sampled in the alluvium in four locations across the three site zones. The results of the screening are summarised in Table 33 below.

Alluvium is only present as a narrow zone associated with the current course of the River Irk and the now infilled former meander bend. Marginally elevated concentrations of contaminants were identified in the alluvium, similar to those observed in the made ground.

Table 33: Exceedances of water screening criteria in alluvium

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Conc (mg/l)	Area
Arsenic	0.05	6	2	BH303 BH306	0.116 0.192	RB Plateau RB Terrace
Beryllium	0.004	6	1	BH306	0.006	RB Terrace
Cadmium	0.00015	6	2	BH306 BH322	0.0072 0.0008	RB Terrace St C Wood
Chromium	0.0047	6	3	BH303 BH306	0.005 0.005, 0.744	RB Plateau RB Terrace
Copper	0.01222	6	2	BH303 BH306	0.061 0.844	RB Plateau RB Terrace
Iron (dissolved)	1	2	1	BH306	19.7	RB Terrace
Lead	0.00958	6	2	BH306	0.013, 3.610	RB Terrace
Manganese	0.2659	6	5	BH306	6.09, 2.23	RB Terrace

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Conc (mg/l)	Area
				BH315 BH322	13.40, 9.76 6.44	St C Wood St C Wood
Nickel	0.01162	6	5	BH306 BH315 BH322	0.076, 0.098 0.025, 0.024 0.028	RB Terrace St C Wood St C Wood
Selenium	0.01	6	2	BH303 BH306	0.037 0.014	RB Plateau RB Terrace
Vanadium	0.02	6	2	BH303 BH306	0.217 0.092	RB Plateau RB Terrace
Zinc	0.02113	6	5	BH306 BH315 BH322	0.390, 0.947 0.065, 0.083 0.154	RB Terrace St C Wood St C Wood
Cyanide	0.001	6	6	BH303 BH306 BH315 BH322	0.027 3.509, 0.265 0.879, 0.223 0.017	RB Plateau RB Terrace St C Wood St C Wood
Complex Cyanide	0.001	4	3	BH306 BH315	0.26 0.88, 0.23	RB Terrace St C Wood
Free Cyanide	0.001	4	1	BH306	0.005	RB Terrace
Thiocyanate	0.001	4	1	BH315	0.8	St C Wood
Ammoniacal nitrogen as N	0.6	6	4	BH306 BH315	21.88, 0.72 5.04, 6.88	RB Terrace St C Wood
Aromatics C12-16	0.09	6	3	BH315 BH322	0.114, 0.100 0.185	St C Wood St C Wood
Fluoranthene	0.000006	6	6	BH303 BH306 BH315 BH322	0.02689 0.00015, 0.00066 0.00407, 0.00057 0.00009	RB Plateau RB Terrace St C Wood St C Wood
Anthracene	0.0001	6	2	BH303 BH315	0.00443 0.00063	RB Terrace St C Wood
Benzo(a)pyrene	1.7E-7	6	5	BH303 BH306 BH315	0.01395 0.00006, 0.00032 0.00290, 0.00003	RB Plateau RB Terrace St C Wood

Surface water quality

Samples to assess surface water quality were taken from the River Irk at two locations during the 2021 ground investigation (Surface water 1 and Surface water 2). During the 2022 GI, samples of surface water

were collected from three locations along the river (SWS01, SWS02 and SWS03) on three separate occasions (Figure 18).

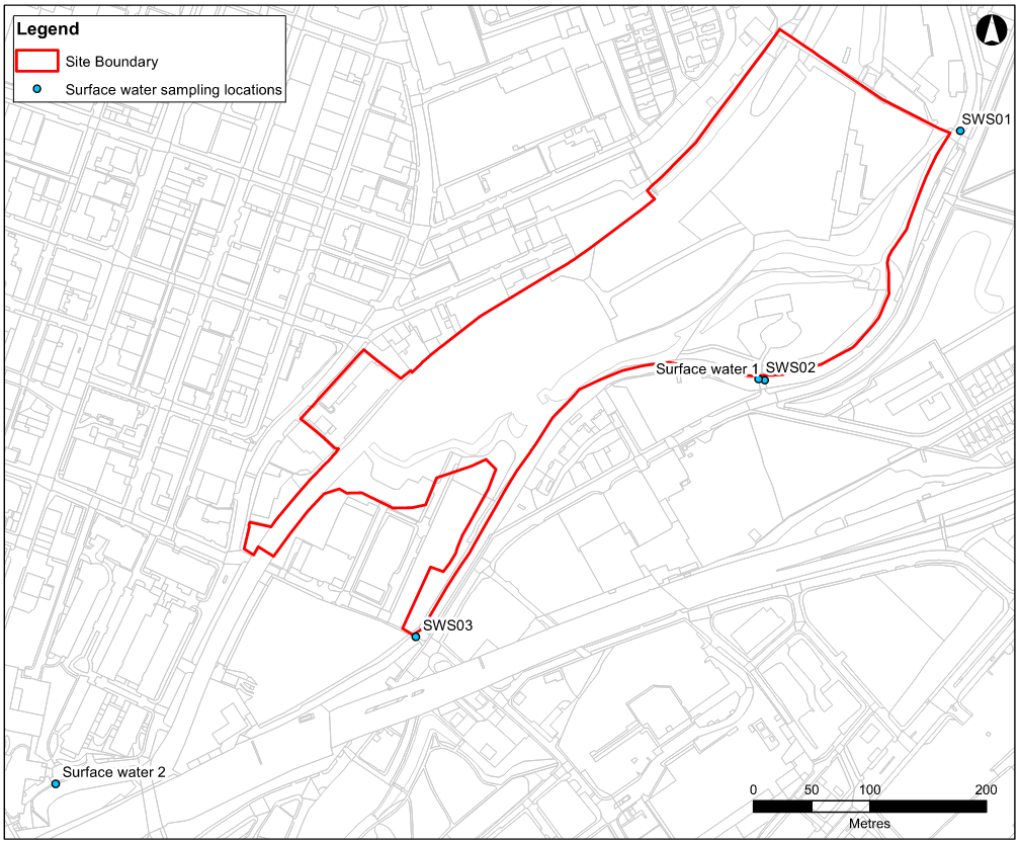

Figure 18: Surface water sampling locations

The river samples identified exceedances of the screening criteria for iron, lead and zinc (Table 34). Contamination is not observed to worsen significantly as the river passes through the site, indicating that groundwater quality in made ground, the alluvium and bedrock is not having a significant impact on surface water quality.

Table 34: Exceedances of water screening criteria in River Irk

Contaminant	GAC (mg/l)	No. of samples	Exceedances		
			No.	Location	Conc (mg/l)
Iron (soluble)	0.2	2	2	Surface water 1 Surface water 2	0.270 0.300
Lead	0.00958	11	1	SWS03	0.010
Zinc	0.02113	11	11	Surface water 1 Surface water 2 SWS01 SWS02 SWS03	0.026 0.029 0.034, 0.052, 0.036 0.029, 0.047, 0.055 0.023, 0.082, 0.062

6.2.8.3 Soil leachate quality screen

Soil leachate was prepared in line with BS EN12457 and the results of eluate at a 2:1 liquid to solid ratio and 10:1 liquid to solid ratio has been screened against the same water quality standards that have been used to assess groundwater and surface waters in this section. A total of 52 samples of soil leachate were analysed.

The screening identifies exceedances of the criteria for cadmium, chromium, lead, mercury, nickel, zinc and sulphate. The results indicate that some of the contaminants within the made ground are potentially mobile, but this is not consistent across the site, and exceedances are typically marginal. The screening is summarised in Table 35 below.

Table 35: Exceedances of water screening criteria in soil leachate

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Conc (mg/l)	Area
Cadmium	0.00015	52	4	TP215	0.070	RB Plateau
				BH303	0.002	RB Plateau
				BH305	0.002	RB Plateau
				TP306	0.001	RB Plateau
Chromium	0.0047	52	16	BH203	0.71	RB Plateau
				BH207	0.62	RB Plateau
				BH210	0.55	RB Plateau
				TP205	0.29	St C Wood
				TP207	0.70	RB Plateau
				TP211	2.00	RB Plateau
				TP215	0.89	RB Plateau
				WS202	2.50	St C Wood
				WS204	0.86	St C Wood
				WS205	1.40	RB Plateau
				WS206	1.40	St C Wood
				WS212	1.40	RB Plateau
				BH306	0.01	RB Terrace
				BH310	0.01	St C Wood
				BH320	0.01	St C Wood
				TP306	0.01	RB Plateau
Lead	0.00958	52	31	BH103	0.01	RB Plateau
				BH106	0.02	RB Terrace
				TP115	0.01	RB Plateau
				WS102	0.01	St C Wood
				BH203	0.80	RB Plateau
				BH207	0.16	RB Plateau
				BH210	0.67	RB Plateau
				TP205	0.19	St C Wood
				TP207	0.11	RB Plateau
				TP212	0.13	St C Wood
				TP215	0.28	RB Plateau
				WS202	1.30	St C Wood
				WS204	1.30	St C Wood
				WS205	0.17	RB Plateau
				WS206	0.31	St C Wood
				WS207	0.17	RB Plateau

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Conc (mg/l)	Area
				WS212	2.80	RB Plateau
				BH302	0.03	St C Wood
				BH308	0.20	RB Terrace
				BH320	0.02	St C Wood
				BH322	0.02	St C Wood
				BH323	0.08	St C Wood
				BH326	0.17	RB Plateau
				BH327	0.02	RB Plateau
				BH328	0.49	RB Plateau
				TP305	0.54, 0.31	RB Plateau
				TP306	0.30	RB Plateau
				TT301	0.05	St C Wood
				TT302	0.10	St C Wood
				TT303A	0.20	St C Wood
Mercury	0.001	52	3	BH203	0.02	RB Plateau
				WS204	0.02	St C Wood
				WS212	0.07	RB Plateau
Nickel	0.01607	52	1	BH103	0.031	RB Plateau
Zinc	0.03728	52	24	BH103	0.64	RB Plateau
				BH203	9.00	RB Plateau
				BH210	4.70	RB Plateau
				TP205	1.90	St C Wood
				TP207	2.50	RB Plateau
				TP212	58.00	St C Wood
				TP215	6.60	RB Plateau
				WS202	5.50	St C Wood
				WS204	8.00	St C Wood
				WS206	3.20	St C Wood
				WS207	12.00	RB Plateau
				WS210	9.90	RB Plateau
				WS212	6.70	RB Plateau
				BH303	0.82	RB Plateau
				BH305	0.20, 0.33	RB Plateau
				BH308	0.08	RB Terrace
				BH323	0.04	St C Wood
				BH327	0.62	RB Plateau
				BH328	0.35	RB Plateau
				TP305	0.22, 0.15	RB Plateau
				TP306	0.30	RB Plateau
				TT303A	0.08	St C Wood

Contaminant	GAC (mg/l)	No. of samples	Exceedances			
			No.	Location	Conc (mg/l)	Area
Sulphate	400	26	3	WS205 WS210	13000, 13000 9800	RB Plateau RB Plateau

6.2.8.4 Summary of controlled water screening assessment

No gross groundwater contamination was observed during ground investigation, except:

- An iridescent oil sheen on groundwater in the former gasworks area (TP204, TP205 and TP206A in the northern part of St Catherine's Wood)
- Oil associated with a buried vessel in the former gasworks area (TT302 in the northern part of St Catherine's Wood).
- Localised oil-impacted water within the carriage shed former structure (TP202B and TP202C in the northern part of Red Bank Plateau).
- An iridescent oil sheen on groundwater in BH102 (during post-GI sampling).

Elevated concentrations of manganese, nickel, zinc and lead are present in all groundwater bodies sampled within the planning application site. This does not appear to be having a significant impact on the quality of the River Irk through the site, which contains similar concentrations of these metals upstream and downstream of the site.

Currently, the Red Bank Plateau area of the site is not entirely covered with hardstanding. The final development of this area comprises mostly hardstanding and buildings, which will reduce the potential for infiltration through the made ground in the longer term.

The impact to controlled waters has been further assessed in a Detailed Quantitative Risk Assessment (DQRA) which is reported separately [36]. The outcome of this assessment determined that remediation is needed within the area of the former gasworks in order to protect the quality of controlled waters and remedial actions should be taken during the works to alter the river bank at St Catherine's Wood. Fill materials used near the river also should be tested to ensure they are suitable for re-use and do not pose an additional risk to the river Irk. This is discussed further in the Outline Remediation Strategy – see Section 9.2.

6.3 Buried pipelines

A variety of contaminants have the potential to permeate water supply pipes, potentially degrading the integrity of the pipes or tainting water supplies. Aggressive conditions could also potentially impact on the integrity of metal pipes.

Any new water supply connections should be designed in consultation with United Utilities (UU), to ensure the pipe materials used are appropriate for the ground conditions. UU generally request that data on ground conditions is collected specifically from the areas of the site in which key potable supply mains are proposed. At the time of writing, the full details of the water supply distribution network are not known, however the alignment of a water main has been established, largely running along the plateau road alignment. Samples of existing ground materials have been taken along this water main alignment (TP308, TP309 and TP310 - Figure 19) at a depth of 1m.

A summary of the testing results is shown in Table 36. Concentrations of contaminants along the proposed pipe route did not exceed the PE thresholds, and therefore this targeted data suggests PE pipes may be appropriate for the site. However, there were exceedances of the PE thresholds across the wider site in samples taken outside of the potable water supply pipe corridor. It is important to recognise these more elevated concentrations represent the site in its pre-remediation condition and may not therefore be appropriate for assessment following completion of the HIF infrastructure works.

Notwithstanding the results of assessment of the three samples from along the corridor, the potential for variability within the made ground at the site and the associated potential for localised hotspots of contamination suggest that it would be appropriate for barrier pipe to be used to safeguard potable supplies.

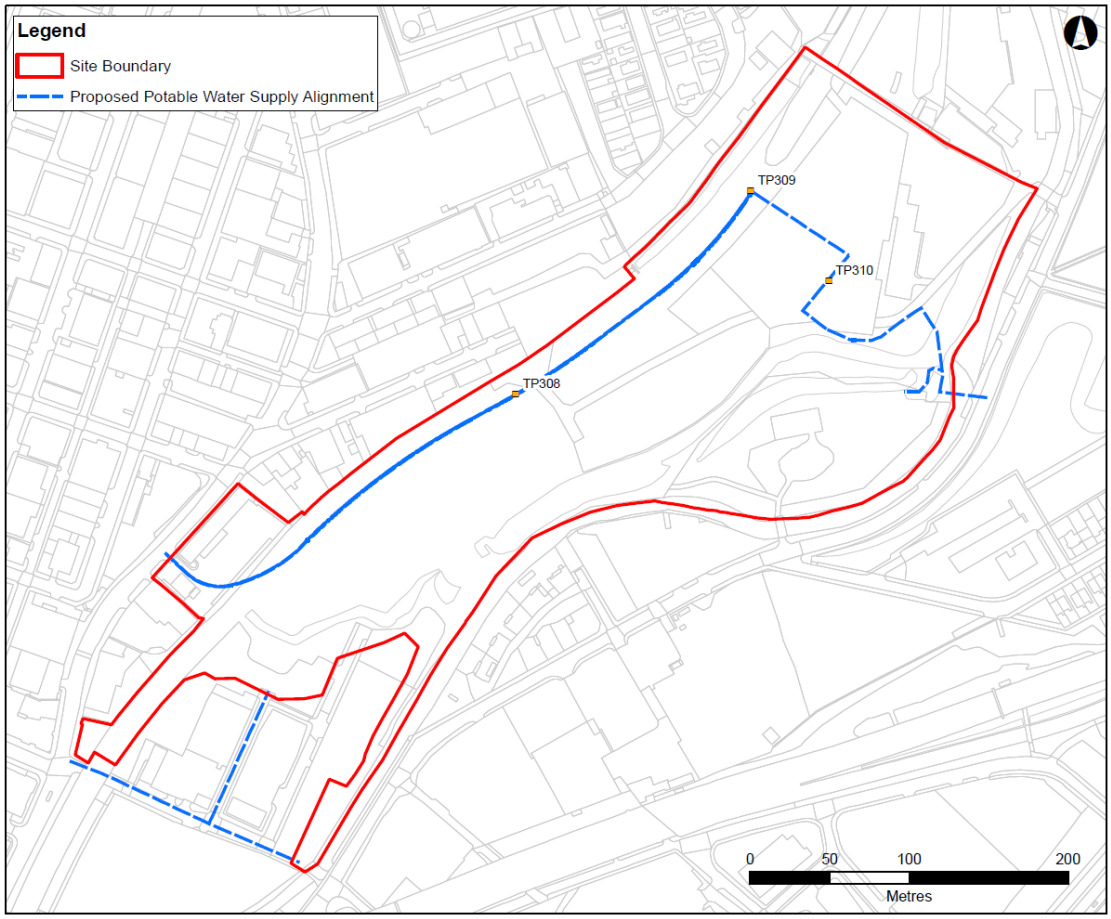

Figure 19: Proposed buried pipeline route

Table 36: Pipe selection risk assessment summary

Test Group	PE threshold (mg/kg)	Metal pipes/barrier pipe	Max conc at proposed pipeline depth (mg/kg)	Max site conc (mg/kg)	Sitewide exceedances
Total VOCs	0.5	Pass	<0.01	38.2	14 of 37
Total BTEX & MTBE	0.1	Pass	<0.01	5.9	2 of 113
Total SVOCs (excluding PAHs, ethers, nitrobenzene, ketones, aldehydes)	2	Pass	0.277	27.2	9 of 47
EC5-EC10 aliphatic and aromatic hydrocarbons	2	Pass	<0.01	395.0	22 of 148
EC10-EC16 aliphatic and aromatic hydrocarbons	10	Pass	<1	8040.0	43 of 248

Test Group	PE threshold (mg/kg)	Metal pipes/barrier pipe	Max conc at proposed pipeline depth (mg/kg)	Max site conc (mg/kg)	Sitewide exceedances
EC16-EC40 aliphatic and aromatic hydrocarbons	500	Pass	<1	44675.0	13 of 249
Phenols* (from SVOC analysis)	2	Pass	<0.1	<0.5	0 of 37
Cresols and chlorinated phenols* (from SVOC analysis)	2	Pass	<0.1	<0.5	0 of 5
Corrosive: conductivity, redox and pH	Pass	For wrapped steel, corrosive if pH<7 and conductivity > 400µS/cm. For wrapped ductile iron, corrosive if pH<5, Eh not neutral and conductivity > 400µS/cm. For copper, corrosive if pH<5 or >8 and Eh positive	pH ranges from 7.32 to 8.74 Cond ranges from 115 to 442 µS/cm	-	-

6.4 Waste assessment

6.4.1 Approach

Reuse of suitable material onsite, where needed to achieve the site levels, will be implemented in preference to offsite disposal for sustainability reasons. The CL:AIRE Definition of Waste Code of Practice (DoWCoP) [25] and other appropriate waste management mechanisms will be applied. However, a proportion of excavated soils produced by the HIF IW will be unsuitable for reuse or surplus to requirements and will require off-site disposal. A preliminary assessment of possible waste classifications and disposal options is presented below.

Under the current UK waste regulations, if excavated soils (including made ground) require offsite disposal as waste, they are to be classified as non-hazardous or hazardous for disposal depending on their chemical properties. Hazardous waste would need to be disposed of at a hazardous waste facility. Non-hazardous waste may be suitable for disposal at a landfill licensed to accept inert waste however, this is subject to the material meeting stringent waste acceptance criteria (WAC) defined in The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020" (SI 2020 No. 1540). To assess this a number of samples have undergone WAC testing to provide an indication of the possible waste disposal options.

To support the WAC testing that has been undertaken, an indicative screen of a selection of made ground, glacial till, alluvium and bedrock samples has been undertaken to determine waste classification. This screen was undertaken using the online waste classification service HazWasteOnline [26] which classifies material in line with current waste guidance, WM3, Waste Classification – Guidance on the classification and assessment of waste [27].

Please note that the results of the indicative waste assessment reported below reflect global conditions at the site and may not represent the actual soil materials that are subsequently identified for disposal. Once soils for disposal have been identified, further WAC testing will be required to assist in the determination of the requirements for off-site disposal.

The objectives of the 2022 GI included for the recovery and analysis of a number of sediment samples from within the channel of the River Irk (Section 3.4). Due to the health and safety implications of entering the watercourse to recover samples, this work was not undertaken during the ground investigation programme.

6.4.2 Hazardous waste classification

As part of the 2019, 2021 and 2022 ground investigations, 240 samples were tested for a range of inorganic and organic contaminants of potential concern. The HazWasteOnline screening tool has been used to estimate the hazardous properties of these materials. The results of the screening are presented in Appendix D and summarised on Drawing 17. This assessment established that 19 of the 215 samples were classified as hazardous (approximately 9%) and the remainder as non-hazardous. A summary of the results of this assessment is presented in Table 37.

Table 37: Summary of hazardous waste screening

Stratum	No. of samples	Non hazardous	Hazardous	Principal contaminant type
Made ground	194	175	19	Total petroleum hydrocarbons Lead Copper Benzene
Glacial till	17	17	0	-
Alluvium	1	1	0	-
Bedrock	3	3	0	-

The hazardous and potentially hazardous wastes that have been identified, have been assigned due to the following hazardous properties:

- HP3(i) – Flammable
- HP7 – Carcinogenic
- HP10 – Toxic for reproduction
- HP11 – Mutagenic
- HP14 – Ecotoxic

As stated in WM3 guidance document, if the waste contains asbestos fibres that are free and dispersed then the waste will be classified as hazardous if the waste as a whole, contains 0.1% or more asbestos. Where the waste contains identifiable pieces of asbestos containing material (ACM) (i.e. any particle of a size that can be identified as potentially being asbestos by a competent person if examined by the naked eye), then these pieces must be assessed separately. The waste is hazardous if the concentration of asbestos in the piece of asbestos containing material is 0.1% or more and the waste is regarded as a mixed waste and classified accordingly. The following codes should be assigned to asbestos waste as appropriate:

- 17 06 05* Construction material containing asbestos
- 17 06 01* Insulation material containing asbestos

17 06 05* would normally be used in preference to 17 06 01* for the asbestos in asbestos contaminated soil and stones.

ACM has been detected in 15 samples (out of 113 tested across the site (approximately 13% - Table 29). One of the samples that underwent quantification contained asbestos fibres at concentrations above the hazardous waste threshold of 0.1% (TT302 – 1.539 %).

6.4.3 Waste acceptance testing

For landfills that accept inert or hazardous waste, material for disposal must be tested and meet the WAC for the type of landfill.

Waste acceptance criteria (WAC) testing has been undertaken on 64 samples of made ground (Table 38 and on Drawing 18). Three of the samples tested (5%) were classified as hazardous for disposal. 28% of the samples were determined as inert and 67% as non-hazardous.

A samples from BH306 was determined as Hazardous by HazWasteOnline and the sampled material would be accepted into a hazardous waste landfill. Samples from BH103 and TT302 were also determined as hazardous, however with a TOC of over 6% (6.8% and 36.2% respectively) the material would have to be separated and treated before going to landfill.

Table 38: Summary of WAC testing results

Exploratory hole ID	Sample top depth (mbgl)	Elevation (mOD)	Stratum	Results of assessment
BH103	1.0	41.57	Made ground	Hazardous* – requires TOC treatment
BH106	0.3	40.37	Made ground	Non-Hazardous
BH203	1.2	40.69	Made ground	Non-Hazardous
BH207	2.2	39.44	Made ground	Non-Hazardous
BH210	2.2	38.25	Made ground	Non-Hazardous
BH211A	2.2	38.24	Made ground	Non-Hazardous
BH211A	5.2	35.24	Made ground	Non-Hazardous
BH212	1.2	29.18	Made ground	Non-Hazardous
TP102	0.3	42.32	Made ground	Non-Hazardous
TP105	1.0	40.11	Made ground	Inert
TP106	2.8	39.85	Made ground	Inert
TP109	1.3	40.66	Made ground	Non-Hazardous
TP112	2.3	38.53	Made ground	Non-Hazardous
TP115	1.3	39.21	Made ground	Non-Hazardous
TP207	1.0	42.34	Made ground	Inert
TP210	1.0	42.08	Made ground	Inert
TP211	1.0	40.64	Made ground	Inert
TP212	0.3	41.72	Made ground	Non-Hazardous
TP215	2.0	39.28	Made ground	Non-Hazardous
WS102	1.0	31.20	Made ground	Inert
WS202	0.3	41.27	Made ground	Non-Hazardous
WS203	1.0	31.64	Made ground	Inert
WS204	1.0	31.84	Made ground	Inert
WS205	3.0	39.12	Made ground	Non-Hazardous
WS205	0.2	41.92	Made ground	Non-Hazardous

Exploratory hole ID	Sample top depth (mbgl)	Elevation (mOD)	Stratum	Results of assessment
WS206	2.0	30.61	Made ground	Inert
WS207	1.0	40.91	Made ground	Non-Hazardous
WS210	0.3	40.58	Made ground	Non-Hazardous
WS211	0.3	39.61	Made ground	Non-Hazardous
WS212	0.6	39.29	Made ground	Non-Hazardous
BH301	9.2	41.87	Made ground	Inert
BH301D	2.0	41.94	Made ground	Non-Hazardous
BH302	2.0	42.76	Made ground	Inert
BH303	7.5	42.30	Made ground	Non-Hazardous
BH304	1.0	41.18	Made ground	Non-Hazardous
BH304	14.0	41.18	Made ground	Inert
BH305	0.5	39.77	Made ground	Non-Hazardous
BH305	1.0	39.77	Made ground	Non-Hazardous
BH306	1.0	31.45	Made ground	Hazardous*
BH308	0.5	30.20	Made ground	Non-Hazardous
BH310	2.5	32.60	Made ground	Non-Hazardous
BH313	1.0	39.81	Made ground	Inert
BH315	1.2	39.26	Made ground	Inert
BH320	3.5	34.26	Made ground	Inert
BH322	1.0	32.49	Made ground	Non-Hazardous
BH323	0.3	30.21	Made ground	Non-Hazardous
BH324	5.0	41.00	Made ground	Non-Hazardous
BH326	3.4	41.50	Made ground	Non-Hazardous
BH327	2.4	41.30	Made ground	Non-Hazardous
BH328	1.4	41.40	Made ground	Non-Hazardous
TT301	1.2	42.60	Made ground	Non-Hazardous
TT302 (former gasworks area)	0.3	42.10	Made ground	Hazardous* – requires TOC treatment
TT303A	0.6	41.48	Made ground	Non-Hazardous
TP304	2.9	41.34	Made ground	Non-Hazardous
TP305	1.0	41.05	Made ground	Non-Hazardous

Exploratory hole ID	Sample top depth (mbgl)	Elevation (mOD)	Stratum	Results of assessment
TP305	2.0	41.05	Made ground	Non-Hazardous
TP306	0.5	39.29	Made ground	Non-Hazardous
SoilSamp02	0.0	42.60	Made ground	Inert
SoilSamp04	0.0	42.12	Made ground	Non-Hazardous
SoilSamp05	0.0	44.52	Made ground	Non-Hazardous
SoilSamp07	0.0	43.63	Made ground	Inert
SoilSamp09	0.0	42.84	Made ground	Non-Hazardous
SoilSamp10	0.0	41.24	Made ground	Non-Hazardous
SoilSamp11	0.0	42.01	Made ground	Inert
* As determined by HazWasteOnline assessment (see Section 6.4.2)				

A number of the samples that were identified as inert by the WAC testing were found to contain asbestos fibre concentrations below the hazardous waste threshold. It may be possible to dispose of this material at inert waste sites however, it will be necessary to discuss this with the proposed receiving sites to understand their specific permitting requirements.

6.4.4 Summary of waste assessment

There is potential for surplus soil to be generated either as a result of earthworks balance or presence of materials which are geotechnically or geochemically unsuitable for re-use within the development platform. These materials may require offsite disposal. Hazardous waste classification has been undertaken on made ground, glacial till, alluvium and bedrock samples and WAC analysis has been undertaken on samples of made ground. The analysis indicates that most of the material will be classified as non-hazardous waste.

As shown on Drawing 17 and 18, in one area (BH203, TT301, TT302 and TT303 in the former gasworks area) a potential zone of hazardous material has been identified. Generally however, rather than indicating a series of extensive contaminant ‘hotspots’, the samples that have been shown to be hazardous appear to represent a series of discrete areas of soil contamination

Zones of material that are classified as hazardous waste for disposal will need to be delineated and any surplus/unsuitable arisings from these areas from these areas will need to be segregated from non-hazardous waste and handled and disposed of accordingly.

7. Ground gas risk

7.1 Methodology

Current UK guidance on the monitoring of ground gas emissions, the associated assessment of risk and the implications for the design of new development is contained in the following principal documents:

- CIRIA C665, 2007 [28];
- NHBC Guidance on Evaluation of Development Proposals on Sites where Methane and Carbon Dioxide are Present, 2007 [29];
- Ground Gas Handbook, 2009;[30]
- British Standard BS8485:2019 [31]; and
- NHBC Technical Extra, Issue 20, 2016.

7.2 Potential Sources of ground gas

Generation of ground gases such as methane and carbon dioxide from soils is generally associated with the presence of significant proportions of organic material that is available for decomposition. A number of potential sources of ground gas have been identified for the site. These are discussed below.

7.2.1 Made ground

Ground investigation has established that a body of made ground is present across the site, reaching thicknesses in the order of 16m in the south-eastern areas of Red Bank Plateau. As discussed in Section 4, the made ground across the site is generally granular in nature, however some localised more cohesive deposits have been identified.

7.2.2 Natural soils with high organic matter content

The potential sources of ground gas that may impact the site, include deposits of alluvium associated with the River Irk. The distribution of alluvial soils within the site is discussed in Section 4.

7.2.3 Infilled historical features

The infilled historical features that lie beneath the main body of made ground at the site, may also represent potential sources of ground gas (Figure 4).

Infilled meander bend on the River Irk.

Any alluvium deposits in the former meander bend, together with the made ground used to infill the meander bend are all considered to be potential sources of ground gas.

As discussed above, although the made ground present across the site is generally granular, localised areas of cohesive made ground have been identified. Most significant, is a cohesive made ground layer up to 12m thick (BH204) within the lower P&P slope area (Drawing 08). Conceptually, the presence of a generally cohesive made ground layer overlying the majority of the infilled former meander bend, may act as a low-permeability cap, below which ground gas could accumulate.

Infilled former mill race.

Any silt or sediment that accumulated in the mill race during its operational life, together with made ground used to infill the mill race may represent a source of ground gas.

Infilled former reservoirs.

A number of exploratory holes were targeted at the former reservoirs within the site. Both BH211A and BH314 in the southern reservoir, encountered up to 1.1m of dark coloured/black material with strong hydrocarbon odours which may be a source of ground gas.

7.2.4 Off-site potential sources

A number of former landfills are present adjacent to the north of the site (Figure 20- note that the extent of these historic landfills (shaded blue) has been determined from a number of information sources and is approximate). There is the potential that ground gas associated with these former landfills could migrate towards the site.

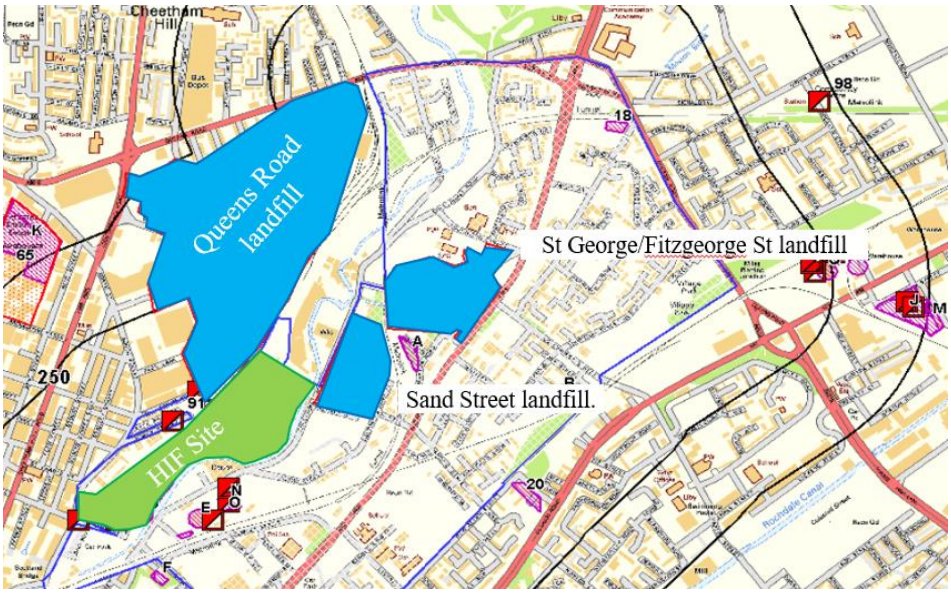

Figure 20: Historic landfills adjacent to the HIF Infrastructure site

Queens Road landfill

Located to the north of the site, the Queens Road landfill site was originally excavated for brick clay [1]. Part of the former landfill runs along a section of the northern boundary of Red Bank Plateau. Tipping at the site took place between 1954 and 1972, with the site understood to have received inert, industrial, commercial, household, special and liquid sludge waste.

Site investigations of the former landfill identified made ground up to a maximum of 12.2m and associated programmes of gas monitoring identified elevated methane and carbon dioxide concentrations. Current, on-line aerial photographs of the site indicate that it is now largely developed, suggesting that the ground gas risk is not sufficient to preclude appropriate development providing (it is assumed) that appropriate gas protection has been included in the buildings.

Sand Street and St George/Fitzgeorge St landfills

The Sand Street landfill is located approximately 50m east of the north-eastern corner of the site, to the east of the River Irk. This site was a former quarry which was infilled before 1974. The nature of the fill placed within the landfill is not known, but reportedly the made ground has a maximum depth of 22m. The site was later used for industrial purposes and remediation carried out for use of the site as public open space included the installation of a cut-off trench and topsoil capping. Currently the Sand Street landfill is undeveloped, however, it is not known whether this is due to ground gas risk.

The St George/Fitzgeorge St landfill is located approximately 150m north-east of the site. This landfill was completed prior to 1974 and no details of the waste type are known. The site is now used as public open space.

Saturated ground conditions between these former landfills and the site (associated with the River Irk) are likely to inhibit the risk of ground gas migration from this source.

7.3 Nature of the hazard

Ground gas monitoring has been undertaken at the site to allow an assessment of the risk from methane (CH_4), carbon dioxide (CO_2), oxygen depletion (O_2), hydrogen sulphide (H_2S), carbon monoxide (CO) and

volatile organic compounds (VOCs). In order to identify whether the gas concentrations observed represent a ground gas risk, it is necessary to understand the nature of the hazard.

Methane

Methane (CH_4) is non-toxic flammable and explosive gas which can cause asphyxiation by displacing oxygen. The explosive range for methane is between 5 and 15%v/v, however this depends on the concentrations of oxygen and other gases such as carbon dioxide that are also present. Concentrations greater than 15%v/v within the ground may become explosive upon dilution at the surface.

Carbon dioxide

Carbon dioxide (CO_2) is a toxic gas which can cause headaches at concentrations between 2%v/v and 10%v/v and loss of consciousness at concentrations greater than 10% v/v. Carbon dioxide is fatal at concentrations of greater than 22% v/v. Carbon dioxide is present at low concentrations in ambient air but can be present at higher concentrations in the ground as it is generated by aerobic and anaerobic degradation of organic material and respiration of soil bacteria. Carbon dioxide is denser than air and consequently can accumulate in low-lying confined spaces such as poorly ventilated basements.

Oxygen

Atmospheres depleted in oxygen (O_2) can develop as a result of the processes that lead to the generation of methane and carbon dioxide. Atmospheres with oxygen concentrations less than 19%v/v can be become strenuous to work in and below 17%v/v, judgement can become impaired. Atmospheres with concentrations less than 10%v/v will not support human life.

Hydrogen sulphide

Hydrogen sulphide (H_2S) is a toxic, flammable and explosive gas which is generated during the oxidation of sulphide minerals, for example resulting from contact with oxidising groundwater. At low concentrations (>20ppm) symptoms may include watering eyes, blurred vision, shortness of breath and a sore throat, while greater concentrations (>400ppm) may result in severe health effects including asphyxiation. The workplace exposure limit for H_2S is 8 hours at 5ppm and 15 minutes at 10ppm. At low concentrations, hydrogen sulphide can be highly malodourous.

Carbon monoxide

Carbon monoxide (CO) is a toxic and flammable and explosive gas which can cause headaches and flu-like symptoms at low concentrations. At greater concentrations can lead to unconsciousness and death. The workplace exposure limit is 8 hours at a concentration of 30 ppm and 15 minutes at a concentration of 200 ppm.

Volatile Organic Compounds (VOC)

Volatile organic compounds can be toxic and explosive depending on the concentrations and types of contaminants present. These compounds may be carcinogenic and can cause side effects such as drowsiness, headaches, nausea and confusion. The type of VOC depends on the source, e.g. a hydrocarbon spillage in made ground or disposal of chlorinated solvents or petroleum products within landfilling.

7.4 Previous ground gas assessments

A programme of gas monitoring was undertaken as part of the 2021 GI, from twenty borehole installations [2]. Six monitoring visits were undertaken, with the highest concentrations of methane and carbon dioxide recorded being 0.4%v/v and 11%v/v respectively. The highest borehole gas flow rate recorded was 1.5 l/hr. A preliminary assessment of the gas risk associated with this monitoring data was established by calculating the Characteristic Situation for each of the twenty installations, based on the highest values of methane, carbon dioxide and flow rate that were recorded during the monitoring programme. In 19 of the 20 installations, CS1 conditions were calculated [28], representing the lowest category of ground gas risk for which no protective measures are required. In one installation (BH205), CS2 conditions were established. CS2 conditions carry a low-risk classification and generally apply to sites where elevated methane or carbon dioxide is present but borehole flow rates are less than 70l/hr. CS2 conditions are generally considered to be indicative of made ground with low organic matter content and natural soils with a high peat/organic matter content.

It was noted that all the available monitoring data had been collected under conditions in which atmospheric pressure was greater than 1000 mb and as such, worst-case conditions may not have been reflected in the available monitoring data [28]. It was therefore, recommended that additional gas monitoring should be undertaken as part of the proposed 2022 GI works.

7.5 2022 ground gas monitoring rationale

In order to further assess the ground gas risk, an additional programme of spot monitoring was undertaken from borehole installations provided as part of the 2019, 2021 and 2022 investigations.

The installations that were to be used during the 2022 gas monitoring programme, were selected based on the following rationale:

1. Good coverage across the site was required in order to assess the gas risk from the general body of made ground that is present across the Red Bank Plateau and in other areas of the site.
2. Gas monitoring was to be undertaken from boreholes that targeted natural alluvial soils.
3. Gas monitoring was to be undertaken from boreholes that targeted historical features such as the infilled River Irk meander bend, the infilled mill race and the infilled reservoirs.
4. Gas monitoring was to be undertaken from the areas of the site perimeter that are closest to off-site former landfills.

Once a range of boreholes had been identified for potential monitoring a check was undertaken to identify any in which the response zones were saturated (i.e. where standing groundwater is higher than the top of the response zone). In accordance with the recommendations of BS8485, no monitoring was undertaken from installations with saturated response zones.

Table 39 summarises the installations from which monitoring has been undertaken and provides further information to justify their inclusion in the monitoring programme.

Table 39: Ground gas monitoring rationale

Explo. -hole	Ground level (mAOD)	Depth (m bgl)	Response zone			Comments/Rationale	Additional comments
			Stratum	Top (m bgl)	Base (m bgl)		
BH101	43.38	7.8	Made ground	1.0	5.0	• General coverage - within made ground. • In NW of the site close to Queens Road Landfill	
BH102	42.93	8.5	Made ground/glacial till	1.9	6.5	• General coverage - within made ground.	
BH112	32.25	4.3	Made ground/ weathered Chester Pebble Beds	0.5	4.0	• General coverage - within made ground.	
BH201	43.40	9.3	Bedrock (mudstone)	3.0	5.0	• In NW of the site close to Queens Road Landfill	
BH202	42.66	9.0	Glacial till	4.0	9.0	• General coverage	
BH204	43.28	16.5	Made ground	1.5	10.0	• General coverage - within made ground. • Within former R Irk meander bend.	
BH205	42.58	10.8	Manchester Marl	4.8	10.8	• In NW of the site close to Queens Road Landfill.	
BH206	42.69	6.8	Made ground	2.0	6.0	• General coverage within made ground.	
BH207	41.64	16.1	Made ground	1.5	15.5	• General coverage - within made ground. • Within former mill race.	
BH208	40.66	14.6	Made ground	3.0	13.0	• General coverage - within made ground.	
BH209	41.21	17.0	Solid strata	11.0	17.0	• General coverage	
BH210	40.45	19.6	Solid strata	14.0	19.6	• Within former reservoir	Although the response zone is in the solid strata, underlying the made ground, monitoring was requested towards end of the 2022 monitoring programme to further investigate ground gas conditions in the northern infilled reservoir – following the findings of monitoring from BH314 in the southern reservoir.
BH211A	40.44	11.6	Made ground	5.0	10.5	• General coverage - within made ground. • Within former reservoir.	Monitoring requested towards end of the 2022 monitoring programme to further investigate gas data obtained from BH314 – both installations are within the southern infilled reservoir. BH211A encountered a 0.4m layer at base of made ground described as “Soft black sandy gravelly silt” with a “Strong hydrocarbon odour.” This material is considered to be infill to the former reservoir.
BH213	31.94	3.5	Made ground	1.5	3.0	• General coverage - within made ground.	

Explo. -hole	Ground level (mAOD)	Depth (m bgl)	Response zone			Comments/Rationale	Additional comments
			Stratum	Top (m bgl)	Base (m bgl)		
WS201B	43.55	1.7	Made ground	0.5	1.3	• General coverage - within made ground. • In NW of the site close to Queens Road Landfill	
BH304	41.18	16.7	Made ground	5.0	10.0	• General coverage - within made ground. • Within former mill race.	
BH305	39.77	12.0	Made ground	1.0	10.0	• General coverage - within made ground.	
BH306	31.45	6.3	Made ground	3.9	5.6	• General coverage - within made ground. Within former mill race.	
BH307	30.61	5.0	Made ground	0.5	2.5	• General coverage - within made ground.	
BH311B	45.31	16.0	Glacial till	9.0	16.0	• General coverage - within made ground on Creamline Dairies	Original BH311 lost – replaced late in monitoring programme.
BH312A	45.60	16.8	Made ground	0.5	4.0	• General coverage - within made ground on Creamline Dairies	Original BH312 lost – replaced late in monitoring programme
BH313	39.81	12.4	Glacial till	3.0	8.0	• General coverage	
BH314	43.11	12.5	Alluvium (possible infill to reservoir) and Solid Strata	9.5	12.0	• General coverage • Within former reservoir	Borehole located within the southern infilled reservoir – see also BH211A. The borehole record for BH314 records a 1.1m layer at base of made ground described as “Dark grey locally mottled black slightly gravelly CLAY” with “Strong hydrocarbon odour noted.” This material is considered to be infill to the former reservoir.
BH315	39.26	13.5	Alluvium	9.0	12.5	• Within former R Irk meander bend. • Within alluvium • In NE of the site close to off-site former landfills.	
BH320	34.26	6.7	Made ground/ Alluvium	3.5	4.2	• Within former R Irk meander bend. • In NE of the site close to off-site former landfills.	The borehole record for BH320 records a 1.25m layer at base of made ground described as “Dark greyish brown slightly clayey gravelly SAND (partially of ash)” with “Strong hydrocarbon odour noted.” This material is considered to be infill to the former meander bend.
BH321	34.20	6.0	Made ground	0.5	4.5	• General coverage - within made ground.	
BH323	30.21	2.6	Made ground	0.5	1.7	• General coverage - within made ground.	
BH325	29.95	4.5	Made ground	0.5	3.5	• General coverage - within made ground.	

7.6 Ground gas data – 2022 spot monitoring programme

Full details of the ground gas spot monitoring that was undertaken as part of the 2022 GI are presented in the Contractor's factual report [10]. The parameters recorded are as follows:

- Atmospheric pressure.
- Borehole flow rate.
- Methane concentration.
- Carbon dioxide concentration.
- Oxygen concentration.
- Hydrogen sulphide concentration.
- Carbon monoxide concentration.
- Volatile organic compounds.

Six, gas monitoring visits were undertaken at approximately two week intervals, subject to atmospheric pressure conditions. In addition, a seventh monitoring visit was undertaken which obtained additional data from BH211A, BH311B and BH312A. The available data is summarised in Appendix E and Table 40.

Table 40: Summary of 2022 gas monitoring data

Installation	Monitoring rounds completed	Flow (l/hr)		CH4 (%v/v)		CO2 (%v/v)		O2 (%v/v)		H2S (ppm)		CO (ppm)		PID (ppm)	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max
BH101	6	0.0	0.2	0.1	1.0	0.1	9.7	3.5	21.6	0.0	0.0	0.0	17.0	0.0	0.0
BH102	6	-2.1	2.5	0.0	1.0	0.2	7.1	10.4	21.7	0.0	0.0	0.0	15.0	0.0	0.0
BH112	6	0.1	0.3	0.0	0.9	0.1	5.2	14.0	20.4	0.0	1.0	0.0	3.0	0.0	0.0
BH201	6	-0.5	2.6	0.0	1.0	0.3	2.1	7.2	20.8	0.0	0.0	0.0	1.0	0.0	0.0
BH202	6	-0.3	0.2	0.0	1.2	0.1	4.5	14.9	22.0	0.0	0.0	0.0	9.0	0.0	0.0
BH204	6	0.1	0.2	0.1	1.0	0.1	10.7	10.2	21.5	0.0	0.0	0.0	2.0	0.0	0.0
BH205	6	-8.9	0.3	0.0	1.0	0.2	2.1	7.8	21.3	0.0	0.0	0.0	5.0	0.0	0.0
BH206	4	0.0	0.2	0.1	0.9	0.1	9.1	8.6	21.6	0.0	0.0	0.0	31.0	0.0	0.0
BH207	6	0.0	0.2	0.0	0.9	0.1	2.1	16.4	21.8	0.0	0.0	0.0	1.0	0.0	0.0
BH208	6	0.0	0.2	0.0	1.1	0.3	7.8	13.8	21.5	0.0	0.0	0.0	2.0	0.0	0.0
BH209	6	-8.9	2.5	0.0	1.0	0.1	7.6	8.6	21.4	0.0	0.0	0.0	3.0	0.0	0.0
BH210	1	0.1	0.2	0.9	0.9	0.9	1.5	12.8	16.8	0.0	0.0	0.0	4.0	0.0	0.0
BH211A	1	0.0	0.0	0.3	0.3	0.8	1.0	20.1	20.9	0.0	0.0	0.0	0.0	0.0	0.0
BH213	6	0.1	0.3	0.0	0.9	0.2	1.2	17.8	20.3	0.0	1.0	0.0	2.0	0.0	0.0
WS201B	6	0.0	0.2	0.0	1.0	0.2	2.6	17.5	21.8	0.0	0.0	0.0	1.0	0.0	0.0
BH304	6	0.1	0.2	0.0	1.0	0.2	7.3	9.7	21.7	0.0	0.0	0.0	1.0	0.0	0.0
BH305	6	0.0	0.2	0.0	1.0	0.2	4.4	17.5	21.6	0.0	0.0	0.0	17.0	0.0	0.0
BH306	6	0.1	0.3	0.0	0.9	0.5	9.2	9.6	20.3	0.0	2.0	0.0	6.0	0.0	0.0
BH307	6	0.0	0.3	0.1	1.0	0.1	7.9	9.6	21.7	0.0	2.0	1.0	5.0	0.0	0.0
BH311B	3	-1.0	-0.1	0.3	0.9	0.3	1.0	17.5	21.1	0.0	2.0	2.0	356.0	0.0	0.0
BH312A	3	0.1	0.2	0.3	0.9	0.3	3.4	17.3	20.5	0.0	1.0	0.0	1.0	0.0	0.0
BH313	6	0.0	0.2	0.0	1.0	2.0	3.8	14.7	20.3	0.0	0.0	0.0	2.0	0.0	0.0
BH314	5	-7.5	1.5	2.1	58.9	0.7	41.9	0.1	20.3	0.0	6.0	0.0	6.0	0.0	0.0
BH315	6	-1.0	1.4	0.0	0.9	0.1	4.0	8.5	21.4	0.0	0.0	0.0	3.0	0.0	0.0
BH320	6	0.0	0.2	0.0	0.9	0.1	7.4	7.2	21.4	0.0	20.7	0.0	227.0	0.0	0.0
BH321	6	0.0	0.2	0.0	1.0	8.4	12.8	6.0	20.9	0.0	0.0	0.0	13.0	0.0	0.0
BH323	6	0.1	0.3	0.1	1.0	6.7	13.6	8.6	21.0	0.0	0.0	0.0	1.0	0.0	0.0
BH325	6	0.1	0.2	0.0	1.0	0.4	1.1	17.0	20.6	0.0	1.0	0.0	3.0	0.0	0.0

7.7 Atmospheric pressure conditions

According to CIRIA C665 [28], to reflect worst case conditions during ground gas spot monitoring, at least two sets of readings should be taken at low and/or falling atmospheric pressure. Based on data obtained on-line [32] for Manchester Airport (the nearest source of weather data to the site) the atmospheric pressure conditions encountered during the ground gas monitoring programme are summarised on Table 41.

Table 41: Summary of atmospheric pressure conditions

Monitoring date	Recorded atmospheric pressure (mb)	Comments
26 & 27 May 22	1012-1019	Atmospheric pressure > 1000mb Prevailing pressure trend was **rising** at this time.
6 & 7 Jun 22	1010-1011	Atmospheric pressure > 1000mb Prevailing pressure trend was **falling** at this time, with a low of 1001mb reached on 8 Jun 22.
20 & 21 Jun 22	1017-1013	Atmospheric pressure > 1000mb Prevailing pressure trend was **falling** at this time, with a low of 999mb reached on 24 Jun 22.
4 & 5 Jul 22	1016-1020	Atmospheric pressure > 1000mb Prevailing pressure trend was **rising** at this time.
18 & 19 Jul 22	1017-1007	Atmospheric pressure > 1000mb Prevailing pressure trend was **falling** at this time, with a low of 1013mb reached on 19 Jul 22.
01 Aug 2022	1016	Atmospheric pressure > 1000mb Prevailing pressure trend was **rising** at this time.
15 Aug 2022	1006	Atmospheric pressure > 1000mb Prevailing pressure trend was rising from a low of 1001mb reached at 03:00 on 15 Aug 2022.

Low pressure is generally regarded as less than 1000mb and as demonstrated in Table 41, none of the gas monitoring undertaken during the summer months of 2022 was undertaken when atmospheric pressure was below this value. On three occasions however, monitoring was undertaken during periods of falling atmospheric pressure.

Given that the site is not generating large volumes of ground gas, the available data is generally considered sufficient to assess the risk from ground gases. As discussed in Section 7.10 however, additional monitoring is recommended from some installations.

7.8 Assessment of ground gas risk

7.8.1 Methane and carbon dioxide risk

The risks associated with methane and carbon dioxide have been assessed by calculating Gas Screening Values (GSV) for these gases, in accordance with CIRIA C665 [28]. Given that the data has been obtained during a programme of spot-monitoring, the assessment of GSVs has been undertaken by identifying the maximum value recorded for each parameter at any stage during the monitoring programme. Given that the highest values of methane, carbon dioxide and flow may not have been recorded during the same monitoring visit, this approach is considered to be conservative. If required, this conservatism can be addressed subsequently by other methods of gas monitoring, for example high frequency monitoring using data-logging equipment.

The results of this assessment of GSV and the corresponding characteristic situation (CS) is given in Table 42. In this table, the calculated GSVs have been screened and the following colours used:

- Grey – CS1
- Pink – CS2
- Red – CS3

In accordance with current guidance however, in the case where the GSV indicates CS1 conditions, if methane concentrations are greater than 1% v/v or carbon dioxide concentrations are greater than 5% v/v, the CS for each gas should be increased to CS2. Finally, the worst-case CS for methane or carbon dioxide is used to determine a CS for the relevant borehole.

Table 42: Calculation of SGV and determination of Characteristic Situation

Installation	Number of rounds	CH_4 max %vol	CO_2 max %vol	O_2 min %vol	Flow* max l/hr	GSV for CH_4 l/hr	GSV for CO_2 l/hr	Characteristic Situation - CH_4#	Characteristic Situation - CO_2#	Design Characteristic Situation
BH101	6	1.0	9.7	3.5	0.2	0.002	0.019	CS1	CS2	CS2
BH102	6	1.0	7.1	10.4	2.5	0.025	0.178	CS1	CS2	CS2
BH112	6	0.9	5.2	14.0	0.3	0.003	0.016	CS1	CS2	CS2
BH201	6	1.0	2.1	7.2	2.6	0.026	0.055	CS1	CS1	CS1
BH202	6	1.2	4.5	14.9	0.2	0.002	0.009	CS2	CS1	CS2
BH204	6	1.0	10.7	10.2	0.2	0.002	0.021	CS1	CS2	CS2
BH205	6	1.0	2.1	7.8	0.3	0.003	0.006	CS1	CS1	CS1
BH206	4	0.9	9.1	8.6	0.2	0.002	0.018	CS1	CS2	CS2
BH207	6	0.9	2.1	16.4	0.2	0.002	0.004	CS1	CS1	CS1
BH208	6	1.1	7.8	13.8	0.2	0.002	0.016	CS2	CS2	CS2
BH209	6	1.0	7.6	8.6	2.5	0.025	0.190	CS1	CS2	CS2
BH210	1	0.9	1.5	12.8	0.2	0.002	0.003	CS1	CS1	CS1
BH211A	1	0.3	1.0	20.1	0.1	0.000	0.001	CS1	CS1	CS1
BH213	6	0.9	1.2	17.8	0.3	0.003	0.004	CS1	CS1	CS1
WS201B	6	1.0	2.6	17.5	0.2	0.002	0.005	CS1	CS1	CS1
BH304	6	1.0	7.3	9.7	0.2	0.002	0.015	CS1	CS2	CS2
BH305	6	1.0	4.4	17.5	0.2	0.002	0.009	CS1	CS1	CS1
BH306	6	0.9	9.2	9.6	0.3	0.003	0.028	CS1	CS2	CS2
BH307	6	1.0	7.9	9.6	0.3	0.003	0.024	CS1	CS2	CS2
BH311B	3	0.9	1.0	17.5	0.1	0.001	0.001	CS1	CS1	CS1
BH312A	3	0.9	3.4	17.3	0.2	0.002	0.007	CS1	CS1	CS1
BH313	6	1.0	3.8	14.7	0.2	0.002	0.008	CS1	CS1	CS1
BH314	5	58.9	41.9	0.1	1.5	0.884	0.629	CS3	CS2	CS3
BH315	6	0.9	4.0	8.5	1.4	0.013	0.056	CS1	CS1	CS1
BH320	6	0.9	7.4	7.2	0.2	0.002	0.015	CS1	CS2	CS2
BH321	6	1.0	12.8	6.0	0.2	0.002	0.026	CS1	CS2	CS2
BH323	6	1.0	13.6	8.6	0.3	0.003	0.041	CS1	CS2	CS2
BH325	6	1.0	1.1	17.0	0.2	0.002	0.002	CS1	CS1	CS1

* - where zero or negative flow has been recorded, the limit of detection of the equipment used is adopted for GSV calculations. LoD is generally taken as 0.1l/hr.
# - where GSV calculations indicate CS1 conditions but CH_4 concentrations >1% v/v and/or CO_2 concentrations exceed 5%v/v, CS2 conditions are adopted.

It is evident from the shaded cells in Table 42 that generally CS1 conditions are indicated by the calculated GSVs however, given that some of the recorded methane and carbon dioxide concentrations marginally exceed 1% and 5% respectively, CS2 conditions have been determined in 14 out of the 26 installations, with a single installation (BH314) indicating CS3 conditions (further discussion of the conditions identified in BH314 is presented in Section 7.8.4). CS2 and CS3 conditions are low- and moderate risk classifications, for which protective measures need to be incorporated into proposed buildings (Section 7.9).

7.8.2 Spatial assessment of methane and carbon dioxide risk

When assessed spatially, there is no evident distribution for the CS2 conditions that have been reported (Drawing 19 and Table 43). Except for BH314, the available data indicates that both CS1 and CS2 conditions have been recorded within the infilled historical features. Furthermore, both CS1 and CS2 conditions have been recorded within the made ground present across the site. Additionally, there is no evidence from the available data to indicate that CS2 conditions are associated with areas of the site adjacent to off-site former landfills.

Table 43: Assessment of gas risk from potential sources

Potential source of gas	Relevant monitoring installation	Relevant CS conditions
General made ground	BH102	CS2
	BH112	CS2
	BH204	CS2
	BH206	CS2
	BH208	CS2
	BH213	CS1
	BH305	CS1
	BH307	CS2
	BH312A	CS1
	BH321	CS2
	BH323	CS2
	BH325	CS1
Alluvium	BH315	CS1
R Irk meander bend	BH204	CS2
	BH315	CS1
	BH320	CS2
Mill race	BH207	CS1
	BH304	CS2
	BH306	CS2
Northern reservoir	BH210	CS1 – 2021 & limited 2022 data
Southern reservoir	BH211A	CS1 – 2021 data & limited 2022 data
	BH314	CS3
Queens Rd landfill	BH101	CS2
	BH201	CS1
	BH205	CS1
	WS201B	CS1
Sand St and St George St landfills	BH315	CS1
	BH320	CS2

7.8.3 Risk from other gases.

Although in a small number of cases, elevated PID readings were recorded during the formation of exploratory holes (Table 5), no elevated (i.e. non-zero) readings for VOCs have been recorded at any stage during the ground gas spot monitoring programme to date. On this basis, the monitoring data suggests no demonstrable risk from vapours or volatile hydrocarbons in the soil.

In order to assess the potential risk from other gases that have been addressed during the 2022 spot monitoring programme, reference has been made to the discussions presented in Section 7.3 from which the following screening criteria have been selected:

- Hydrogen sulphide (H_2S) – the 15 minute workplace exposure limit of 10ppm has been adopted for initial screening.
- Carbon monoxide (CO) - the 15 minute workplace exposure limit of 200ppm has been adopted.

When these screening criteria have been applied to the available data, elevated carbon monoxide has been identified in BH311B and elevated hydrogen sulphide and carbon monoxide in BH320 (Table 44**).** BH311 was drilled in the Creamline Dairies part of the site and was lost during demolition works. BH311B was a replacement installation, provided late in the 2022 monitoring programme and only a single set of monitoring data is currently available for this installation. It is recommended that monitoring continues to establish whether elevated CO concentrations are sustained.

Table 44: Assessment of hydrogen sulphide and carbon monoxide risk

Installation	Number of rounds	H2S max ppm	CO max ppm
BH101	6	0.0	17.0
BH102	6	0.0	15.0
BH112	6	1.0	3.0
BH201	6	0.0	1.0
BH202	6	0.0	9.0
BH204	6	0.0	2.0
BH205	6	0.0	5.0
BH206	4	0.0	31.0
BH207	6	0.0	1.0
BH208	6	0.0	2.0
BH209	6	0.0	3.0
BH210*	1	0.0	4.0
BH211A	1	0.0	0.0
BH213	6	1.0	2.0
WS201B	6	0.0	1.0
BH304	6	0.0	1.0
BH305	6	0.0	17.0
BH306	6	2.0	6.0
BH307	6	2.0	5.0
BH311B	3	2.0	356.0
BH312A	3	1.0	1.0
BH313	6	0.0	2.0
BH314	6	6.0	6.0
BH315	6	0.0	3.0
BH320	6	20.7	227.0
BH321	6	0.0	13.0
BH323	6	0.0	1.0
BH325	6	1.0	3.0

BH320 is installed in the River Irk meander bend (Drawing 09). The response zone to BH320 targeted a thin layer of dark slightly clayey gravelly sand (partially of ash), with a strong hydrocarbon odour (Table 39**)**. Although elevated hydrogen sulphide and carbon monoxide concentrations have been recorded in this installation, these elevated concentrations do not appear to have been sustained throughout the monitoring undertaken to date, with elevated concentrations of each of these gases recorded on only a single occasion. Although the available data suggests a potential for periodic hydrogen sulphide and carbon monoxide emissions associated with BH320, given that no development is proposed in this area, the identified risk from these ground gases may not represent a development constraint. The risks identified however, will need to be considered as a potential risk to the construction workforce. Further monitoring from BH320 may allow this risk to be considered further.

7.8.4 BH314 – the infilled former reservoirs

BH314 targeted the southern infilled former reservoir and CS3 conditions have been recorded for methane and CS2 conditions for carbon dioxide (Table 42). The draft borehole record for BH314 records a 1.1m layer at base of made ground described as:

> "Dark grey locally mottled black slightly gravelly CLAY with high carbon [*sic*] content. Gravel is subangular fine and medium of coal and sandstone. Strong hydrocarbon odour noted."

Although this odorous made ground layer sits just above the top of the response zone of the installation in BH314, the gas conditions recorded in this borehole are considered to be associated with this layer of

contaminated fill, which sits at the base of the made ground and is likely to be associated with the former reservoir (see Table 39).

In some cases, the presence of hydrocarbon vapours can lead to falsely elevated readings when portable infra-red monitoring equipment is used for ground gas monitoring. To determine whether the reported hydrocarbon odour in BH314 was affecting the spot-monitoring data, a gas sample was recovered from the installation for laboratory analysis. The results of this analysis (Appendix E) indicate 37.85% methane and 24.67% carbon dioxide, confirming the presence of these gases at elevated concentrations in this installation.

BH211A was installed in the southern infilled reservoir during the 2021 GI. The borehole record for BH211A records a 0.4m layer at the base of made ground described as:

> "Soft black sandy gravelly silt. Sand is fine to coarse and includes ash. Gravel is fine to coarse angular and includes brick and clinker. Strong hydrocarbon odour."

This material sits within the lower section of the response zone in BH211A and has also been interpreted as infill to the former reservoir. The highest concentrations of methane and carbon dioxide recorded in BH211A during the 2021 monitoring programme were 0.2% and 3.0% respectively, far lower than those recorded from BH314. The highest concentrations of methane and carbon dioxide recorded in BH211A during a single monitoring visit added to the 2022 monitoring programme were 0.3% and 1.0% respectively.

BH210 was drilled into the northern infilled reservoir (Drawing 09) however, no evidence for contaminated sediment at the base of the former reservoir was noted on the borehole record. The available data obtained during both the 2021 and 2022 monitoring programmes recorded CS1 conditions in BH310 (however in this case, the response zone is within the solid strata underlying the made ground).

The southern infilled reservoir lies to the south-east of Plot RB01 in an area that according to the current masterplan is to be developed as public open space (Figure 1). The northern infilled reservoir lies partly under the plateau road and partly under Plot RB01. Of the three boreholes within these infilled reservoirs only one (BH314) has been found to present an elevated gas risk. When the data summarised for BH314 is assessed further (Table 44), it is evident that CS3 conditions have only been recorded on one occasion (the second monitoring visit on 6th June 2022). The borehole characteristic situation established during the other monitoring visits has been determined as CS2.

Table 45: BH314 - ground gas conditions at each stage in the 2022 monitoring programme

Installation	Date	CH_4 max %vol	CO_2 max %vol	Flow* max l/hr	GSV for CH_4 l/hr	GSV for CO_2 l/hr	Characteristic Situation – CH_4#	Characteristic Situation – CO_2#	Borehole Characteristic Situation
BH314	27/05/2022	34.3	18.7	-2.4	0.034	0.019	CS2	CS2	CS2
	06/06/2022	58.9	22.6	1.5	0.884	0.339	CS3	CS2	CS3
	20/06/2022	56.7	20.6	0.1	0.057	0.021	CS2	CS2	CS2
	05/07/2022	No data							
	19/07/2022	49.1	36.2	-0.2	0.049	0.036	CS2	CS2	CS2
	01/08/2022	50.1	41.9	0.2	0.100	0.084	CS2	CS2	CS2

* - where zero or negative flow has been recorded, the limit of detection of the equipment used is adopted for GSV calculations. LoD is generally taken as 0.1l/hr.
# - where GSV calculations indicate CS1 conditions but CH_4 concentrations >1% v/v and/or CO_2 concentrations exceed 5%v/v, CS2 conditions are adopted.

The ground gas conditions encountered to date in BH314 are considered to be associated with a relatively thin layer of hydrocarbon-impacted made ground, that has been interpreted as contaminated sediment that accumulated within the southern reservoir, before it was buried beneath the made ground of the Red Bank Plateau sometime prior to 1906. The organic content of this made ground is likely to have degraded slowly since the burial of the reservoir and it can be anticipated that much of the organic material that was initially available for decomposition has now degraded (this concept is referred to as a diminishing source-term).

Given that no elevated gas concentrations have been recorded to date in the nearby BH211A (also installed in the same infilled reservoir), it may be concluded that the conditions encountered in BH314 are relatively localised.

Given the possibility that the source of the ground gas recorded in BH314 is limited in extent and is over 100 years old, it is possible that BH314 has penetrated and released a pocket of ground gas that has generated slowly over prolonged timescales. Continued monitoring from BH314 is recommended to establish whether gas concentrations reduce over time, if this pocket of gas disperses. Furthermore, as discussed in Section 7.8.1, spot monitoring such as that undertaken to date from BH314 only records gas concentrations at specific points in time. A more robust assessment of ground gas risk may be obtained following a programme of high-frequency monitoring using data-logging equipment, particularly if development proposals change under a new masterplan and buildings are to be considered overlying the former reservoir.

7.9 Summary of ground gas conditions.

With the exception of BH314, the available data indicates both CS1 and CS2 conditions within the site (with respect to methane and carbon dioxide). When addressed spatially, there is no evidence to indicate a link between the higher-risk CS2 conditions and specific historical features within or adjacent to the site. On this basis, it is considered that in the absence of further monitoring data, CS2 conditions should be assumed for the development of the site. In accordance with BS8485, CS2 conditions attract a gas protection score in the range 1.5 to 3.5 depending on the nature of the development and the details of the individual buildings to be included.

The available data for BH314 suggests localised CS3 conditions. According to the current masterplan, BH314 does not lie within a proposed development plot and therefore, it is not considered necessary to adopt CS3 conditions for the relevant areas of the proposed development site. If development layouts change however, localised CS3 conditions may need to be adopted and appropriate gas protection measures allowed for during construction. In accordance with BS8485, CS3 conditions attract a gas protection score in the range 2.5 to 4.5.

7.10 Recommendations for further monitoring

Given that BH311B and BH312A have been installed late in the current spot monitoring programme (to replace installations lost during demolition works in the former Creamline Dairies site) it is recommended that additional site visits are undertaken to allow six monitoring visits to be completed from the replacement installations. During these additional visits, it is also recommended that further monitoring is undertaken from:

- BH210, BH211A and BH314, to further assess the ground gas risks within the infilled former reservoirs.
- BH320, to allow further assessment of the hydrogen sulphide and carbon monoxide risks to be undertaken. Alternatively, after consideration of the construction activities that may be required in the relevant areas of the site, it may be possible to address these risks by adopting appropriate safe systems of work or other health and safety provisions.

8. Engineering considerations

8.1 Introduction

An assessment of the ground conditions has been undertaken to identify risks and constraints to the proposed HIF Infrastructure works, within the proposed site boundary shown in red on Figure 1.

8.2 Ground condition considerations

8.2.1 Variability

The ground conditions across the wider site area are complex and highly variable both in plan and with depth. As a result, ground conditions will vary significantly between different plots and elements of the works. The site has been divided into zones for this report, yet there is still significant variation within each zone. It is recommended that for future stages of design, location specific ground conditions are reviewed for each individual element.

8.2.2 Made ground

Made ground covered the majority of the site. The nature and thickness of made ground is significantly variable. Red Bank Plateau, was formed for rail sidings by cutting into the valley side and filling towards the River Irk with offsite material. The fill will not have been controlled or compacted and cannot be relied upon to provide a consistent engineering performance.

Due to the variability within a large amount of data, this report has grouped together and averaged typical behaviour, it should be noted that localised soft spots and unsuitable material will be present.

Given the variability of material and limited nature of ground investigation, it is not possible to accurately classify the nature, extent and behaviour of this material. Risk allowances will need to be made to account for variability of material not meeting the assumed classification.

8.2.3 Soft ground

Soft deposits were encountered at depth in the vicinity of former reservoirs, course of the River Irk and mill race (Figure 4). The extent of soft material has not been delineated.

Relic topsoil, subsoil and weathered natural material can be expected beneath the made ground across the area filled during formation of the plateau.

Localised shallow soft spots may also be present in some areas of the site (e.g. St Catherine's Wood), associated with alluvium or other natural superficial deposits.

The made ground in general across the site may also contain soft spots.

These materials are unlikely to provide sufficient support for foundations and are potentially unsuitable for formation or reuse in earthworks.

8.2.4 Rockhead

The level of rock head beneath the site is highly variable as a result of the different rock types which have been exposed to erosion from glacial activity and the river. The rockhead level typically drops towards the River Irk.

In the Red Bank Plateau area, bedrock is found at depths of up to 16mbgl associated with the deepest made ground. In the lower-lying areas of St Catherine's Wood and Red Bank Terrace, bedrock was encountered at shallower depths, in the order of 1.8 to 3.3m bgl.

Except for the areas close the river, competent engineering rock head may be found at significant depths.

8.2.5 Groundwater

Groundwater was encountered in made ground, alluvium, glacial till and bedrock.

Perched water was encountered within the made ground at shallow levels in some of the boreholes. A number borehole installations in made ground were dry throughout the monitoring. Typically, a relatively thin saturated zone was identified at the base of the made ground, it is likely that groundwater in made ground is discontinuous. Locally groundwater within the made ground may be trapped within obstructions or perched on underlying cohesive material.

Groundwater encountered in glacial till appears to be concentrated in the granular lenses, however it is possible that water is present, but less evident within cohesive glacial till. Groundwater in alluvial deposits is likely to be in continuity with the river, as is groundwater in the underlying bedrock which is expected to have greater permeability than the superficial deposits, particularly in the sandstone formations.

Excavations in made ground and glacial till are likely to encounter perched groundwater which may require dewatering or other forms of groundwater management. Groundwater in alluvium may be in continuity with surface water and/or groundwater and given the relatively high permeability of the alluvial soils present, simple dewatering may not be practicable and other forms of groundwater management may be required if significant excavations are to be undertaken.

8.2.6 Buried features

There is potential for buried features including old foundations, slabs, walls, voids, and both live and abandoned services to be present. These are discussed in more detail in Section 8.7.

8.3 Earthworks

8.3.1 Cut-fill balance

Earthworks will be required to create level development plots; to construct the road embankment entering the site; and for a range of landscaping works. A preliminary assessment of plot levels has been undertaken for the site and is presented on the cut and fill drawing ref VNIF-ARP-00-YYY-DR-CE-0003 (reproduced as Figure 21, below).

The remediation of the site will also generate a large volume of cut material and will impact the earthworks strategy. To mitigate slope stability risk significant cut is required in the vicinity of Plots RB02 and RB03. Regrading is also required for landscaping down to Red Bank Terrace and for the works down to St Catherine's Wood. Additional cut is also required for the riverbank works.

Fill will be required for the plateau road embankment. Opportunities for additional fill have also be identified within on Red Bank Plateau and within landscaping in St Catherine's Wood and Red Bank Terrace. General fill may be won from the made ground that is excavated and sorted, however some processing and conditioning should be anticipated. This is discussed further in 8.3.2 below.

Fill at the crest of existing slopes should be avoided to as this would adversely impact stability. This affects plot levels of Red Bank Plateau.

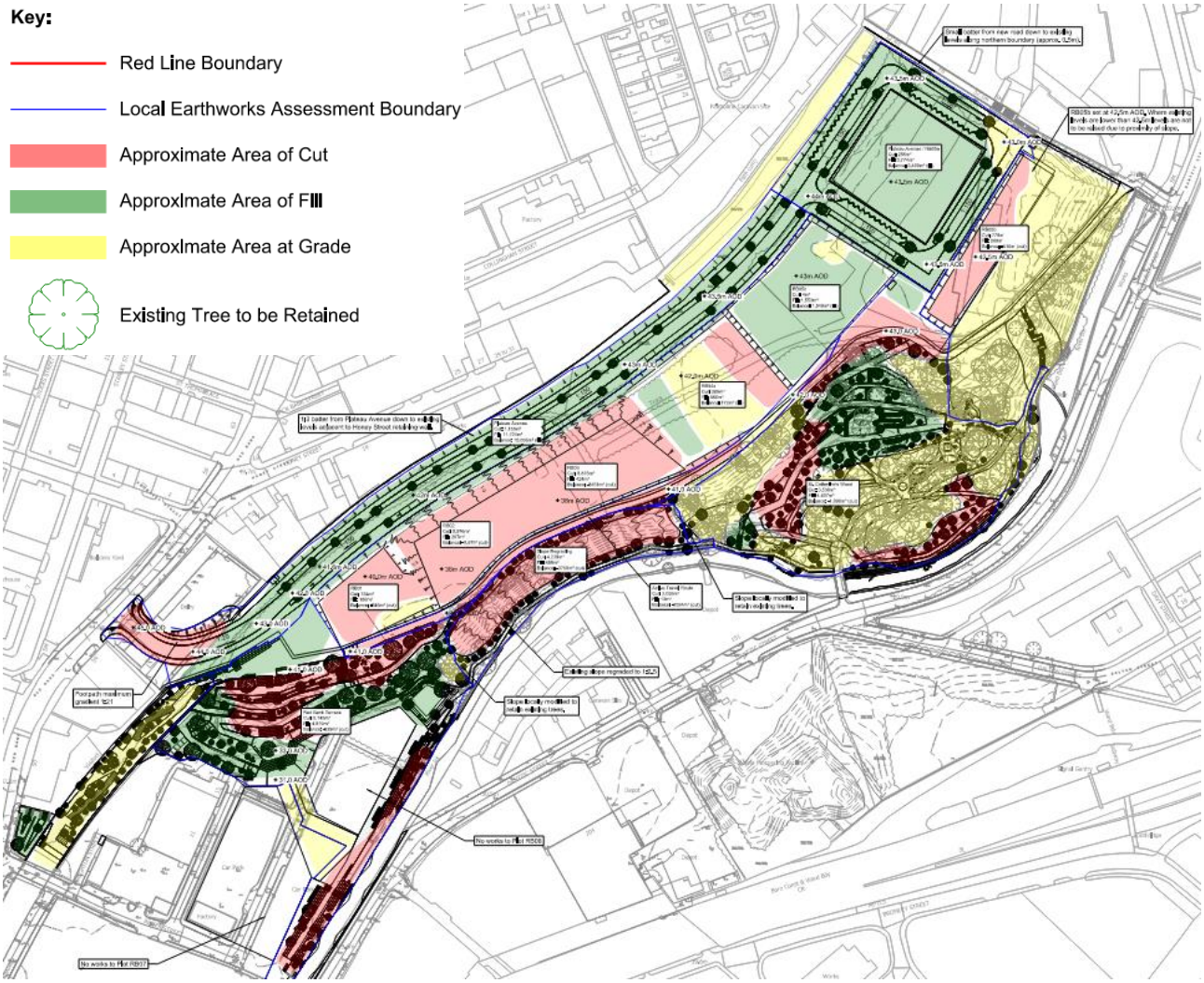

Figure 21: Indicative cut and fill proposals (VNIF-ARP-00-YYY-DR-CE-0003)

In addition to "general fill" selected engineering material (in accordance with Specification for Highway Works, SHW) will be required for some uses within the scheme (for example capping and fill to retaining walls). It is likely that this will need to be imported. There may be an opportunity to generate some of this material by processing suitable arisings from excavation (e.g. crushing and screening concrete and masonry).

On the basis of the current design of the HIF Infrastructure Works, it is anticipated that there will be a surplus of site won material that will need to be exported. It is recommended that the Contractor's material team are engaged to help identify opportunities for material re-use.

8.3.2 Re-use of site won material

It is considered that most of the material excavated from the site as part of a general cut and fill exercise will be made ground, which has been found to be highly variable, with the composition likely to vary both laterally and vertically. Soil descriptions (BS5930) from the GI, suggest that approximately 75% of the made ground on site could be classified as predominantly granular. Within the granular made ground however, there is evidence for zones of cohesive material, particularly along sections of the plateau road , Plot RB03 and in the P&P slope area (Drawing 08).

Particle Size Distribution (PSD) data suggests that 70 % of the material to be excavated around plateau slope fits the grading criteria for Class 1 general fill according to SHW [12]. It should be noted that there are additional acceptability criteria for SHW materials. Therefore, additional testing and assessment will be required during construction to determine acceptability. It should be anticipated that some sorting and double handling will be required to eliminate unacceptable materials.

Compaction testing indicated highly variable performance and moisture content for the made ground. The natural moisture content was found to be close to the upper limit for achieving compaction, therefore allowance should be made for conditioning some of the material prior to compaction.

Based on plasticity characteristics and PSD results from Section 5.1.1, the cohesive made ground material would generally fall in Class 2A (wet cohesive material) according to the SHW [12] if used as general fill.

Natural material is mostly encountered at Red Bank Plateau with very small amounts seen at Red Bank Terrace and St Catherine's Wood which is unlikely to be encountered during excavation works. At Red Bank Plateau where natural ground could be encountered, the cohesive material can be described as a Class 2A (wet cohesive material) according to the SHW [12] if used as general fill.

Note that criteria other than the relationship between moisture content and plasticity will need to be taken into consideration when assessing the acceptability of re-use, including strength and compaction characteristics.

Geoenvironmental factors impacting re-use of site won materials are covered separately in Section 9.

8.3.3 Earthworks phasing

To maximise the potential for material re use, including sorting and processing of materials, it would be advantageous to undertake remediation, excavation and processing of material in advance of filling in some areas of the site. However, this may lead to double handling of some materials.

If the development is progressed in phases, this may reduce the potential to recover some materials, and lead to inefficiencies and costs associated with undertaking earthworks in small areas. This may include:

- Reduced flexibility for reusing potentially suitable fills resulting in additional offsite disposal or import of suitable fill materials.
- The need for additional temporary earthworks batters or retaining structures at the edges of plots.

8.3.4 Settlement

There are a number of potential causes of settlement. Those of most significance at the HIF site include settlement due to increased loading on in-situ soils and self-weight settlement of the made ground.

Given that the made ground was placed at least 130 years ago, it is likely that much of this settlement will now be complete. However, it is important to understand the likely magnitude of settlement resulting from additional loading due to the proposed works. Additionally, it is important to consider the timescales over which residual settlement is likely to occur in different materials.

Settlement of in-situ materials will occur when new fill is placed or loads are applied as part of the development. Where significant thicknesses of made ground or compressible materials are present, settlement can be significant and have a pronounced effect on the performance of engineering solutions.

Proposed filling operations should be undertaken in accordance with an engineering specification to control and limit settlement within newly placed fill. It is anticipated that granular materials will be used for the proposed fill, in which case self-weight settlement should occur during the works.

There will be potential for differential settlement along the alignment of the proposed plateau road, as the road comes out of cut through Creamline Dairies site, across the existing retaining wall and then a large amount of fill forming the embankment, which reduces in height along the wall. At the maximum embankment height the data suggests the formation is made up of granular material, therefore the maximum settlement at this location may occur quickly. As the embankment reduces in height, the formation crosses layers of cohesive material, which may undergo consolidation settlement over a longer time scale. The design and construction sequence for this embankment will need to consider the rate and magnitude of potential settlement. If predicted total or differential settlement of the embankment is unacceptable, measures to reduce the magnitude of post construction settlement may be required.

A programme of monitoring should be undertaken to monitor settlement of soils underlying the proposed earthworks. This settlement monitoring programme should include provision of surface settlement monitoring stations together with a minimum of two borehole extensometers. Extensometers should be

installed and at least two rounds of baseline monitoring undertaken, before filling commences. To validate design assumptions, monitoring should continue after filling is complete. If this area can be surcharged in advance of the final road construction, then this would mitigate risk of differential settlement with time impacting road performance. There may be an opportunity to surcharge this area with the temporary haul road.

The construction programme should be reviewed following design to assess the construction sequence of temporary haul road, retaining wall construction and embankment construction to mitigate risk of differential settlement.

This report does not consider the development of the plots. It is assumed that the developments will be piled and the infrastructure works will be protected from settlement associated with the plot development. It should be noted that some long-term settlement may happen in the vicinity of the plots, there could be a risk of down drag loads due to settlement of the surrounding area. This risk should be assessed and mitigated if required during the design of each plot development.

There is a risk that changes in groundwater regime and saturation across the site can impact settlement/heave of in-situ materials. Future development of the site may restrict flow down to the river, resulting in mounding. Introduction of infiltration through SuDS has the potential to impact the groundwater regime in the plateau and slope. The development proposals should consider any potential impact, if there is a risk of groundwater conditions changing.

Volume changes can be caused by chemical reactions of components within the fill. Reactions are known to be associated with the presence of a number of materials in fill (for example sulphates, steel slag and pyritic shales). Despite some evidence for the presence of slag material within made ground at the site (e.g. BH301 and BH302), these materials have not been noted in any significant proportion in the ground investigation. If significant volumes are discovered, then the risk of expansivity should be mitigated.

8.3.5 Drainage

A sustainable urban drainage strategy is being developed for the site and subject to obtaining regulatory approval. The presence of contaminants in the made ground across the site is likely to prevent the use of soakaways in most areas of the site. However, depending on groundwater conditions, soakaways and other infiltration systems may be considered possible in areas close to the River Irk where sandstone strata is at relatively shallow depths. The current design proposals do not include for infiltration, care should be taken to understand the impact on other design elements if the drainage design is reviewed.

8.4 Slope stability

8.4.1 Slope A, plateau cut

175m length of the north-western boundary of the Red Bank Plateau area is formed from an existing cut slope approximately 7m high and 1v to 3h (Slope A, Figure 3). This slope was extensively vegetated and the area behind the crest is in third party ownership and used for storage, therefore access for an inspection was not possible. It has been assumed that this slope has been cut into glacial till. However, this could not be confirmed during the ground investigation and it has not been possible to assess the stability. While a 1v to 3h in glacial till would typically be expected to stable, there could be a risk of adverse impact from surcharging at the crest, weathering and deterioration of material and groundwater.

8.4.2 Slope B1, P&P

The existing slopes adjacent to Plot RB05b is known as the P&P slope (Figure 3**)**.

There are no immediately obvious signs of instability. However, the slopes are steep and may not meet current design standards. ~~T~~

It is apparent that on the lower, steeper section of the slope the mature vegetation plays a significant role on maintaining stability. Should the vegetation be removed, then stability may be impacted and regrading/ strengthening works may be required in order to mitigate risk of stability or meet current standards.

To minimise environmental impact of de-vegetation and regrade works to bring the existing slope to current standards, a managed risk approach may be considered, such that a risk zone be defined and any proposed development including recreational areas and utilities are located outside this risk zone.

An additional area of sloping ground has been identified extending beyond the northern site boundary and into areas currently under third party ownership. No ground investigation or inspection has been undertaken on third party land. It has been assumed that the ground conditions within the site continue beyond the boundary, and it is considered that there exists the same marginal risk of slope failure in this area as for slope B1. It is therefore important that the loading conditions of the external slope are not altered without first assessing the potential impact on the development and appropriate mitigation put in place by others.

Inclinometer results

Two inclinometers were installed as part of the ground investigation in order to help understand whether there was a potential ongoing deformation within the existing slope. The image below illustrates the location of the inclinometer installations.

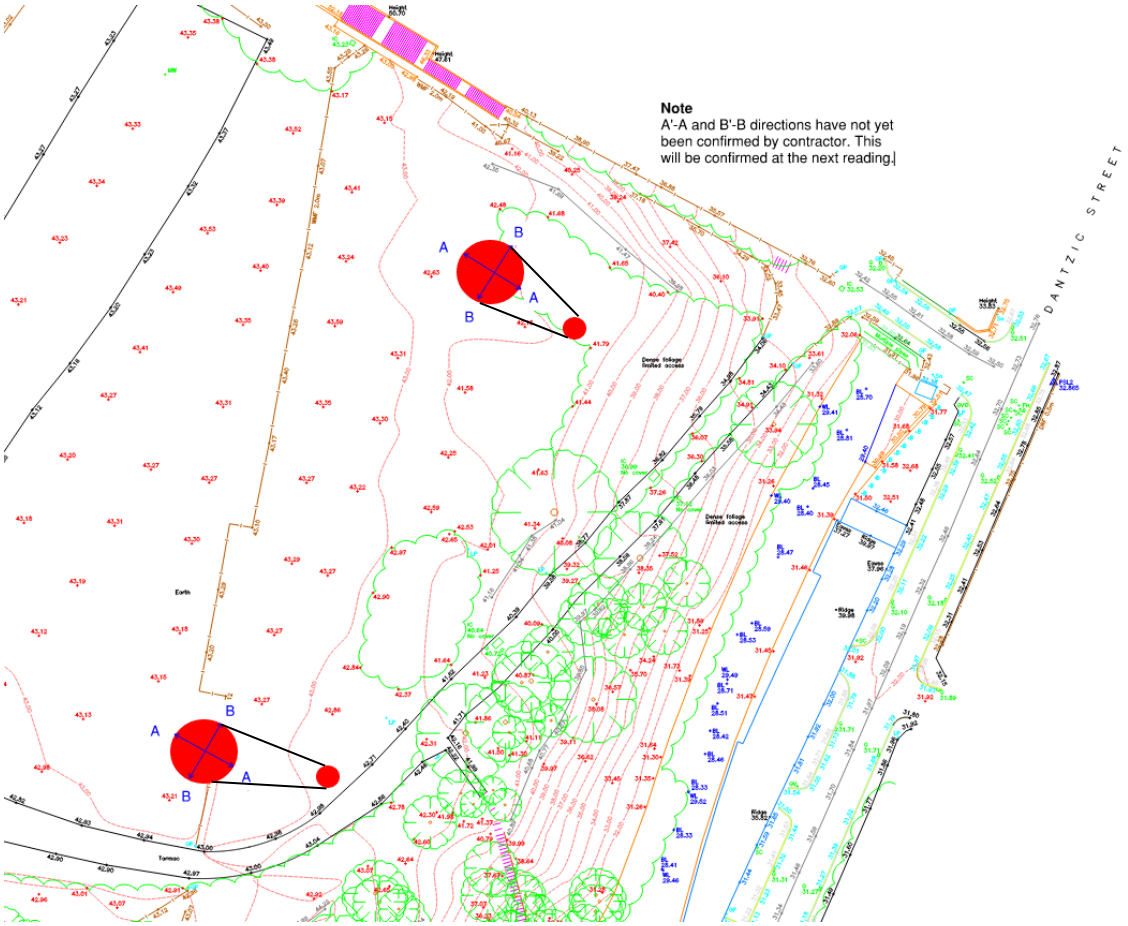

Figure 22: Inclinometer installation location plan

Limitations

Of the two inclinometer installations, site constraints required that BH302 was set back approximately 10m from the from the crest of the slope, behind the access track. At the as-installed location, the data obtained from the inclinometer in BH302 may not represent the full profile of the slope.

For both installations, the A-A' axis is perpendicular to the existing slope and the B-B' axis is parallel to the slope. The factual data provided does not however indicate where A' and B' lie on the respective axes. Clarification has been requested from the ground investigation contractor.

At the time of writing this GIR, four sets of monitoring data have been provided for Inclinometers installed in BH301 and BH302: March 21st, June 11th, July 19th and August 8th 2022.

Observations

The monitoring results suggests that some movement has occurred. However, there are some discrepancies which make it difficult to make definitive conclusions at this stage. It is assumed that some of the discrepancies may be down to operational error in taking the readings and/or plant movement on the plateau above the slope.

The cumulative displacement charts for BH301 suggest that there may be 20 to 30mm movement, along the A-A' axis, in the upper 6m of the material. There may also be progressive movement (10 to 20mm) along the B-B' axis approximately 10m below crest level. As BH301 is on the corner with two adjacent slopes as such it could be reasonable to see different behaviour in both axes.

The cumulative displacement charts for BH302 suggests up to 70mm movement in the upper 4 to 6m, across both axes. Given the location of BH302 on flat ground and the erratic nature of one reading, it has been assumed that this data is unreliable and the movement may be due to surface activity or other disturbance, given that it is adjacent to the access track.

Given the issues with the available data it is recommended that further monitoring is undertaken from both these installations. Monitoring should be undertaken in by trained staff operating in full accordance with the manufacturer's instructions. During this additional monitoring, plant movements should be prohibited in the vicinity of the installations.

Better quality monitoring will continue for the next year with a program to be discussed with BAM Nuttall.

8.4.3 Slope B2, plateau

There is a steep exiting slope approximately 10m high from the plateau down to the river slope adjacent to Plots RB02 and RB03 (Figure 3). The slope was formed by placement of made ground to form the railway sidings. The slope has exhibited signs of instability and is currently considered to be marginally stable in places, standing at the angle of repose. The river wall at the toe is clearly critical to the integrity of the slope. Without the wall, there would be erosion and instability pushing the slope crest back into the plateau.

The slope has a variety of gradients and geometry, similarly the made ground in the vicinity of the slope is variable. Typically, granular made ground, medium dense near surface but loose at depth and near the crest, as would be expected for end tipped granular material including ash. Locally layers of cohesive material are present and these roughly correlate with steeper sections of slope.

It is considered that in its current condition there is a risk of instability impacting the development, it's infrastructure and the river wall. The slope would not meet current design standards. This is considered unacceptable in the context of the future development. It is recommended that the slope be regraded to improve stability. In order to mitigate impact on the available developable land there is an opportunity to reduce the platform level of Plot RB02 and RB03.

8.4.4 Slope C, St Catherine's Wood

As the crest Red Bank Plateau drops down to St Catherine's Wood the slopes are from 9m to 13m high with gradients typically 1v in 2h to 1v in 2.5h, locally 1v to 1.6h around vegetation. slopes are generally densely vegetated, thinning out to the SW towards slope B2. Unlike slope B2, there is a broad area of gently sloping ground of St Catherine's Wood at the toe; the river is not in close proximity to the steepest section of the slope.

There is an opportunity to fill this area, further reducing any risk of instability. Care will be required during the design of the paths and landscaping to avoid loading or cutting into the slope.

8.5 Retaining structures

8.5.1 Existing retaining walls

A number of existing retaining walls have been identified within (Figure 3**)**:

- A c. 5m high Victorian-era brick retaining wall along the north-western boundary between the Creamline Dairies site and Red Bank Plateau known as Honey Street retaining wall (Retaining Wall 1).

- The c. 8m high viaduct retaining wall running parallel to the Honey Street retaining wall.
- Sections of a masonry retaining wall (possibly constructed in the early 1900s) at the foot of the slopes between the Red Bank Plateau and the Red Bank Terrace areas (Retaining Wall 2).
- Masonry retaining walls (date of construction not determined) that line the banks of the River Irk.

The geometry and founding levels of these structures is unknown. If development proposals are considered to potentially impact the stability of these structure, further consideration will be given on a case-by-case basis.

Care will need to be taken during excavation and other construction activity in the vicinity of existing retaining walls, so as not to have an adverse impact on their integrity or performance.

8.5.2 Proposed retaining structures

There is insufficient space available for the construction of the proposed plateau road embankment as it approached Red Bank Terrace, therefore a retaining wall is required. The wall will retain from 2-4m height of the embankment on the approach to existing Retaining Wall 1.

The construction sequence of the wall needs to be confirmed, as discussed in 8.3.4 to mitigate differential settlement along the embankment. The global stability of the proposed retaining wall will need to consider both the embankment and existing retaining wall geometry, together with the slope and landscaping for Redbank terrace.

A series of small retaining gabion walls are anticipated to support terraced footpaths in the Red Bank Terrace and St Catherine's Wood area as part of the public open space improvements. Loose granular made ground on existing slopes may introduce risks to the formation of these walls and their stability, therefore there is a risk that localised excavation and recompaction may be required to provide suitable formation.

8.6 Foundations

Plot development is beyond the scope of this report for the infrastructure work. Separate interpretation should be undertaken & additional investigation may be required to design and construct foundations for any other structures.

Given the ground conditions it is unlikely that shallow foundations will be suitable for anything other than lightweight ancillary structures, which are insensitive to ground movements.

In order to avoid settlement issues impacting infrastructure works and adverse loading on the slopes, the use of piles is anticipated to be required to both carry load and limit settlement for any buildings on the site. The type of piling will be dependent upon the structural form and loads, however variable ground conditions and risk of buried obstructions may influence the most appropriate pile type.

The design of the proposed buildings must be undertaken in such a way to avoid adversely impacting the stability of slopes or surrounding infrastructure. This includes consideration of settlement on surrounding assets. Further investigation will be required to inform the foundation design at each plot location.

8.7 Constraints to development

8.7.1 Buried obstructions

Details of the obstructions encountered during GI can be found in Section 3.6. An outline remediation strategy is presented in Section 9.2 and includes measures to address known and potential obstructions. Following the implementation of the remediation strategy however, there will remain a potential for encountering additional buried obstructions from past site use within the site. Obstructions may include former basements, foundations, walls, utilities and made ground containing large concrete obstructions.

These types of obstructions may affect activities such as piling, excavations and earthworks as well as the design and construction of new retaining structures.

8.7.2 UXO

As reported in the 2019 desk study [1], a number of studies have been undertaken by specialists to determine the risk from UXO across the site. In addition to what is documented in these studies, there is the potential for further unrecorded strikes having taken place. The most recent UXO assessment by Zetica [35] concluded that the risk from UXO within the area of interest was low.

It is recommended that the mitigation measures in the Zetica report are reviewed by BAM and further specialist advice obtained, in advance of proposed infrastructure works.

8.7.3 Voids

The desk study identified several potential sources of voids resulting from uncontrolled backfill of historical features, such as foundations, basements, former bridge structures or reservoirs. There also remains the risk of voids due to current or former utilities. Without treatment (such as excavation/replacement or grouting), voids may pose a hazard to both temporary works and the proposed development.

The ground investigations undertaken had targeted and uncovered voids which is discussed in Section 3.6.8. All known voids are shown on the site clearance drawing (VNIF-ARP-00-YYY-DR-G-0013).

8.7.4 Utilities

Existing utilities may present a constraint to the development in some areas. There is also a risk of unrecorded services being present. Diversion and protection works may be needed, in advance of site clearance, earthworks and remediation.

A potential combined sewer was identified, crossing Red Bank Plateau and descending the steep slopes before crossing beneath the River Irk. The alignment of this sewer represented a potential constraint to proposed earthworks. An assessment of the actual alignment of this sewer has been undertaken by BAM and of copy of their work is included in Appendix F for information.

The known drainage shown on the site clearance drawing along Red Bank Plateau, may also hinder the regrade works at plots RB02 and RB03.

9. Geoenvironmental considerations

9.1 Introduction

Based on the assessments presented in Section 6, the conceptual site models presented in Table 25 and Table 26 have been reassessed in order to consider the proposed redevelopment of the Red Bank Plateau, Red Bank Terrace and St Catherine's Wood.

The results of this reassessment are presented as Table 46 and Table 47.

Table 46: Revised conceptual site model for the HIF IW construction phase

Source		Pathway		Receptor	Linkage?
Made Ground (containing solid contaminants, asbestos fibres and hydrocarbons)	→	Dermal contact	→	Construction worker Assuming appropriate health and safety procedures are adopted (including the use of appropriate PPE)	No
		Ingestion of soil/ soil dust	→		No
		Inhalation of soil vapour	→		No
		Inhalation of soil and soil dust	→	Construction worker Assuming appropriate health and safety procedures are adopted (including the use of appropriate PPE)	No
			→	Site users and neighbours Assuming appropriate health and safety measures are adopted i.e. dust suppression	No
Temporary stockpiles of excavated arisings Accidental leaks and spills during construction	→	Leaching and runoff	→	Surface water drainage Assuming appropriate site management procedures are adopted	No
			→	River Irk Assuming appropriate health and safety procedures are adopted	No
		Leaching and infiltration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk Assuming appropriate site management procedures are adopted	No
Impacted shallow groundwater, including groundwater entering the site from landfill to the north	→	Dermal contact	→	Construction worker Assuming appropriate health and safety procedures are adopted	No
		Ingestion	→	Construction worker Assuming appropriate health and safety	No

Source		Pathway		Receptor	Linkage?
				procedures are adopted	
		Lateral migration	→	River Irk	Yes
Ground gases/landfill gases	→	Ingress and accumulation of toxic, asphyxiating or explosive concentrations within excavations	→	Construction worker in deep trenches and chambers	No

Table 47: Revised conceptual site model post-completion of HIF IW

Source		Pathway		Receptor	Linkage?
Made Ground (containing solid contaminants, asbestos fibres and hydrocarbons)	→	Dermal contact	→	Future site user in soft landscaping areas only Interim users of plots where no hardstanding exists prior to follow-on development Pathways broken where hard surfacing and buildings present but exposure possible in landscaped areas/gardens	Yes
		Ingestion of soil/ soil dust	→		Yes
		Inhalation of soil vapour	→		No
		Inhalation of soil and soil dust	→		Yes
		Leaching and infiltration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk	Yes
		Direct contact	→	Buried structural concrete	No – assuming the recommendations of Section 5.8 are observed.
			→	Potable water supply pipes	No – assuming the recommendations of Section 6.3 and subsequent assessments are observed.
			→	New planting in public open space areas	Yes
Impacted shallow groundwater (including groundwater if entering site from landfill to north)	→	Dermal contact	→	Future site resident	No
		Ingestion	→	Future site resident	No
		Lateral migration	→	Secondary A aquifers in superficial deposits Principal aquifers in bedrock River Irk	Yes
Ground gases/landfill gases	→	Ingress and accumulation to toxic, asphyxiating or explosive concentrations within buildings	→	Future site user Building structures	Yes - plot-specific assessment recommended

Little evidence for VOCs has been identified during ground investigation at the site. Potential contaminant linkages which include a soil vapour pathway can therefore, be discounted. Given the general absence of volatile contaminants, risks to future site users are not deemed to be present where soils are located beneath hardstanding.

The potential contaminant linkages (PCL) identified for the HIF IW construction phase can be addressed by the adoption of appropriate mitigation measures typical of brownfield development (Section 9.2), except for the PCL relating to possible impact on the River Irk due to legacy groundwater contamination. This PCL is continuous into the post-construction phase and to avoid duplication, is considered with post-HIF IW PCLs below. The risks to construction workers during the HIF IW can be addressed with mitigation measures standard for brownfield site construction works, with negligible residual risk.

The scope of remediation that will be carried out as part of the HIF IW will be limited to ensuring that the land is suitable for the current masterplan uses, and that any unacceptable risks to groundwater or the River Irk are addressed. Potential contaminant linkages will remain post-HIF IW construction, identified in red in Table 47. These relate to:

- Human health risks, where there is no barrier to prevent direct contact with existing site soils (e.g. in landscaped areas or gardens).
- Controlled waters, where existing contamination in groundwater is able to migrate into the bedrock aquifers and/or River Irk. These PCLs have been addressed further by a programme of detailed quantitative risk assessment (Section 9.2.2).
- Ground gas risks. Ground gas risks have been identified within the site (Section 7) and subject to the outcome of any further monitoring that may be undertaken, will require measures to be incorporated into proposed buildings as part of the individual plot development works.

It is understood that the development of each individual plot within the site will be subject to a separate assessment by others and as such is not included in the scope of this report.

9.2 Outline remediation strategy

9.2.1 Scope

Remediation in its broadest sense implies a form of intervention to reduce and control risks where linkages exist between contaminant sources and sensitive receptors. This can include source removal or reduction through treatment; pathway interruption (for example by barriers and cover layers or gas membranes); enhanced health and safety and site control measures (protecting construction workers and neighbours); and long-term monitoring. Remediation objectives relate to the requirement to address contaminant linkages by one or more means. In some cases, more detailed investigation and further risk assessment may indicate that no further intervention is required.

The key objectives for the remediation works specific to the site are:

- To address the contaminant linkages identified in the conceptual model that can be addressed prior to final development;
- To mitigate significant environmental risks or liabilities;
- To achieve regulatory approval, and
- To provide a sustainable solution, within budget and programme constraints, avoiding unacceptable nuisance and H&S impacts.

This is an outline remediation strategy that does not present the complete information that would be required, for example to discharge a land contamination planning condition. The detailed remediation strategy is to be produced by BAM.

The outline remediation strategy relates to the HIF IW only, i.e. the ‘master developer’ works to create development platforms for follow-on development and associated Infrastructure Works. At plot development

stage (under separate planning application) 'plot developer remediation' activities will be necessary that can only be completed at that stage, such as:

- In-building gas protection measures;
- Clean cover in soft landscaping and residential development private gardens within the development plots;
- Installation of services;
- Foundation works risk assessment for plot developments.

9.2.2 Principal constraints identified by ground investigation

Visual and olfactory evidence for contamination of soils, together with a number of exceedances of the selected GACs have been identified in the area of a former gasworks (Plot RB05b and areas of the adjacent St Catherine's Wood). In addition, GI has confirmed the presence of relic structures associated with the former gasworks, to a maximum proven depth of 2.65m bgl (TT301). Given the constraints that have been identified, remediation of this area of the site will be required.

Evidence for gross groundwater contamination was observed during ground investigation in the former gasworks area. Hydrocarbon contamination of groundwater was also noted within the relic carriage shed sub-structure in the northern part of Red Bank Plateau. Remediation of the carriage shed area will also be required.

In the majority of the cases soils with visual and/or olfactory evidence for contamination will be dealt with during the proposed site turn-over operations (which are to extend to 0.5m bgl) and the plot regrading works to the plateau slope area. If additional areas of free oils are encountered during the HIF IW, localised remediation and validation may be required as part of the Contractor's Discovery Strategy (Section 9.2.3). Stockpiled soils should also be inspected for visual and/or olfactory evidence for contamination, as part of the assessment of suitability for re-use.

In order to determine whether the instances of hydrocarbon impacted groundwater identified within the site represent a risk to controlled waters, a controlled waters detailed quantitative risk assessment (DQRA) has been undertaken [36]. In addition, the DQRA has informed validation and material reuse criteria for use during the HIF Infrastructure Works.

9.2.3 Remediation strategy tasks

On the basis of current assessments, the following key tasks have been identified as forming part of the site preparation and remediation works:

Site clearance and demolition

The Red Bank Plateau area is heavily overgrown and will require vegetation clearance prior to earthworks and remediation. Any invasive species such as Japanese Knotweed and Himalayan Balsam will require removal and/or treatment. Vegetation clearance and the management of invasive species is outside the scope of this document.

The St Catherine's Wood area is heavily wooded and there is a need to retain as many trees as possible in this area to meet the sustainability goals of the Victoria North project. The constraints associated with existing vegetation may impact the extent of remediation works in the former gasworks area (Figure 8).

The existing buildings on the Creamline Dairies site (Plot RB12b) have been demolished, with the demolition works including measures to address risks from asbestos within the building fabric. As a precautionary measure and materials proposed for reuse in the HIF IW should be tested for the presence of asbestos, in accordance with the requirements of the Earthworks Specification [33].

Parts of the site are currently unsecured and have been fly-tipped in the past. Any fly-tipped material will require removal from site prior to the works, once the site perimeter is secured so further fly-tipping is prevented. In addition, the channel of the River Irk may need to be cleared of accumulated material (to improve river flow). It is recommended that once the site is secured, samples of fly-tipped material and accumulated material in the river are recovered and tested to determine appropriate disposal routes for the

material. Proposed works to the river are subject to on-going design assessments and regulatory discussions. Once proposals are developed further, further assessments in the river channel may be required.

Removal of hardstanding and surface turnover

Areas of surface hardstanding across the site will be removed.

The remains of former rail infrastructure (Figure 4 and [37]**)** will be removed including:

- The remains of two former rail turntables present at the surface of the site.
- The below-ground remains of a former carriage shed that have been encountered in a number of trial pits, with brick sub-structure extending to depths of at least 1.4m bgl. In preparation for this breaking out work, dewatering of the sub-structure will be required, with careful management and treatment/disposal of the abstracted oil/water. Depending on the distribution of this perched water within the substructure, this groundwater management may need to be extended throughout the breaking out works. Once the remains of the carriage shed have been removed, this area will require validation before being reinstated using suitable engineered fill, placed and compacted. The requirements for validation and earthworks reinstatement are presented in the Earthworks Specification [33].
- The below-ground remains of the former gasworks that have been encountered, with brick sub-structure extending to depths of at least 2.65m bgl. In preparation for this breaking out work, localised excavation to remove gross contamination will be required. In addition, dewatering of the sub-structure will be required, with careful management and treatment/disposal of the abstracted oil/water. Depending on the distribution of this perched water within the substructure, this groundwater management may need to be extended throughout the breaking out works. Once the remains of the gasworks have been removed, this area will require validation against selected criteria before being reinstated using suitable engineered fill, placed and compacted in accordance with the Earthworks Specification [33].

Areas to remain at grade and areas of proposed filling within the Red Bank Plateau and Red Bank Terrace areas are to be turned over to an average depth of 500mm to identify and remove relic structures and other potential obstructions to development. All obstructions will be removed to a depth of 2.0m below existing ground level. Any obstructions extending to depth greater than 2.0m below existing ground level will be recorded. Material disturbed by these operations will need to be recompacted in accordance with the Earthworks Specification.

Utilities and drainage diversion and protection works may be needed, in advance of earthworks and remediation (Section 8.7.4).

Proof-rolling of sub-formation

Once slope regrading and excavation to sub-formation are complete, the resulting sub-formation should be proof-rolled. Any soft spots identified during proof-rolling should be treated by removal and infilling with suitable fill, placed and compacted in accordance with the Earthworks Specification. In accordance with Section 5.5.4, soft spots will be defined as areas of the sub-formation with CBR < 2%.

Material processing and management

Following the regrading and reduced level excavations and other earthworks operations, excavated materials will need to be processed to recover soils for re-use on site as fill. Processing of site won soils is likely to lead to three categories of material:

a). Material that is acceptable for re-use as an engineering fill and meets the requirements of an earthworks specification. This category of material can be used as general earthworks fill across the site (for example to infill the area of the former carriage shed or to raise plot or carriageway levels) or, if suitable, as selected fill for more specific applications.

b). Material that is unsuitable for use as engineering fill but may be suitable for use in areas of landscaping.

c). Material that is unsuitable for use as either general engineering fill or landscaping fill or is surplus to requirements.

In addition to determining material as suitable for re-use based on its engineering properties, the controlled waters detailed quantitative risk assessment (DQRA) [36] has established chemical acceptability criteria for soils that are to be considered for potential re-use.

A detailed verification plan will need to be produced for all site-won materials that are intended for re-use on site. The re-use of suitable materials using the CL:AIRE Definition of Waste Code of Practice (DoWCoP) [25] has been proposed during discussions with the Environment Agency.

Works to the river channel

Proposed works to the river are subject to on-going design assessments and regulatory discussions as part of a separate river works contract. Once proposals are developed further, additional assessments in the river channel may be required.

The DQRA has identified risks to the river channel in areas where the existing river wall is to be removed. During works to re-naturalise the river banks through St Catherine's Wood, inspections should be undertaken to identify the following:

- Visual or olfactory evidence for the potential discharge of contaminants into the river through high permeability material associated with the former river meander bend, or;
- Visual or olfactory evidence of contamination discharging from the face of the regraded river banks.

If either of these are encountered, the risk to controlled waters should be reassessed and measures to address these potential contaminant linkages (for example, the provision of low permeability material at appropriate locations along the river banks) should be implemented if required.

Discovery strategy

A geoenvironmental watching brief should be implemented by the Contractor during excavations. The watching brief should include a defined discovery strategy that describes the response to visible contamination encountered during the works.

Oils may be encountered during excavation within the site which may pose a risk to groundwater and may also reduce the possibility for the re-use of the impacted soils. Additional localised remediation and validation may be necessary to address this issue.

Clean cover system in HIF IW soft landscaped areas

After the proposed HIF earthworks have been completed, the formation across the site will comprise:

1. A newly prepared formation consisting of site-won soils, or
2. Existing made ground that has not undergone any cut and fill operations but has been subject to site clearance (including vegetation clearance), or
3. Existing areas of the site in which at the client's request, existing trees and vegetation have been left in their pre-HIF works condition.

Once earthworks are complete the HIF Infrastructure Works include for the provision of topsoil and subsoil layers (refer to Landscaping Specification [3] and associated drawings) to soft landscaped areas. These topsoil and subsoil layers are provided to satisfy two requirements:

1. To provide a suitable growing medium for the planting that is to be undertaken as part of the HIF Infrastructure works.
2. To provide a suitable clean cover layer to break the pathway between elevated contaminants in the underlying soils and users of the site. Appropriate validation criteria for these clean cover soils are provided in the Earthworks Specification [33].

The proposed thickness of the topsoil and subsoil layers vary across the site (Drawings 21 and 22). In addition to indicating the proposed clean-cover provision, Drawing 21 presents a summary of the human

health exceedances that have been identified by ground investigation. Drawing 22 also summarises the results of asbestos assessment that has been undertaken.

The areas of Red Bank Terrace and St Catherine's Wood that are shaded green on Drawings 21 and 22 will undergo a cut and fill exercise which will redistribute existing soils and may require the provision of soils from other parts of the site. Following these earthworks, this area is to be provided either with paving/hardstanding or with a 300mm layer of validated subsoil overlain by 300m of validated topsoil. Both proposed surface treatments are considered sufficient to break the pathway between contaminants that are likely to be exposed across the proposed earthworks formation and subsequent users of these areas of public open space.

The yellow shaded area of Red Bank Terrace is to be provided with hardstanding which will break the pathway between the identified contaminant exceedances and subsequent users of the site.

Given the existing gradients, it has not been possible to undertake ground investigation in the area shaded orange on Drawings 21 and 22 and therefore, any assessment of risk from contaminants in the made ground needs to consider the generally low-risk nature of contamination that has been identified across the wider site (Drawing 14). Once the proposed regrading is complete, this area is to be provided with 300mm of validated topsoil and then planted with a woodland mixture of trees and low shrubs. On the basis of the following considerations, the proposed HIF Infrastructure Works are considered to adequately address the risks to future users of the site from contaminants that are likely to be exposed across the regraded slopes in this area:

- The gradient of the regraded slopes will continue to discourage use of this area of the site.
- In accordance with the contractor's discovery strategy, the post-regrade slopes will be inspected and any visual and olfactory evidence for potential contamination exposed will be addressed.
- 300mm of validated topsoil is to be provided. This will break the pathway between residual contaminants in the made ground and site users.
- The proposed woodland planting will further discourage use of this area of the site and therefore reduce the potential for disturbance of the surface and sub-surface soils.

During ground investigation, only the following contamination has been identified in the area of the site shaded blue on Drawings 21 and 22:

- BH323 (0.5m bgl) – three PAH species that exceed the relevant public open space GACs and asbestos fibres (0.004%).
- WS103 (1m bgl) - asbestos fibres (<0.001%)

Although existing trees are largely to be retained in this area, ground cover and other vegetation is to be removed before minor earthworks are undertaken (e.g. to remodel the existing river banks). Following these earthworks, this area is to be inspected in accordance with the contractor's discovery strategy, and any visual and olfactory evidence for potential contamination will be addressed. The area will then be provided either with areas of paving/hardstanding or with a 100mm layer of validated topsoil and then replanted.

At the depths encountered and after the addition of the proposed 100mm of validated topsoil and subsequent planting, it is considered unlikely that existing made ground will be disturbed by users of the site. It is therefore considered that the risks from contaminants in the made ground in this area of the site, will be adequately mitigated by the proposed HIF Infrastructure Works.

The client has requested that disturbance of the existing trees and vegetation in the areas shaded red on Drawings 21 and 22 is minimised as much as possible to preserve the established ecology. The only exceedances that have been identified by previous GI that will remain post-HIF Infrastructure works are:

- TP105 (0.3m bgl) – asbestos (0.006%).
- BH315 (0.5m bgl) – asbestos (<0.001%).

In these areas of the site, there is no provision for additional subsoil or topsoil as part of the HIF Infrastructure Works. The risks from the identified contaminants however, are considered to be low and will

be mitigated further by the steep existing gradients and existing trees and vegetation, which will both discourage activity and disturbance of the soils by members of the public. A further consideration is that no new footpaths are being provided in these areas which will further discourage access to these areas. Given the low risk from identified contaminants in the made ground it is considered that remedial measures such as the provision of clean cover soils are not appropriate as they would be incompatible with the client's stated ecological objectives.

Interim condition on development plots

The HIF IW must be completed to a standard that addresses risks to users of the site and risks to neighbours (e.g. associated with dust arising from the surface of the site) in the interim condition between completion of the HIF IW and follow-on development. A "site finish layer" is proposed, comprising a temporary 100mm thick layer of suitable hydroseeded material, placed across all areas of the site in which made ground soils remain exposed at completion of the HIF IW.

Site management and environmental monitoring during construction

Some of the contaminant linkages identified in the updated conceptual model are to be addressed by the adoption of appropriate health and safety measures during the construction (including demolition, earthworks and building works) to ensure that the works do not pose a risk to construction workers, adjacent site users and the wider environment. Similarly, environmental monitoring will be necessary during the works.

Verification plan

The detailed remediation strategy will need to include a verification plan identifying the data that must be collected during the HIF IW to demonstrate the requirements of the remediation strategy have been implemented.

10. Conclusions: key engineering and geoenvironmental issues

10.1 Key engineering issues

Significant quantities of highly variable made ground, very thick and poor quality in places, which introduce ground risks to the project.

The made ground is predominantly described as granular but cohesive pockets and zones are present across the site.

Localised soft spots may be encountered both within the made ground and also at depth in natural deposits.

There is a potential for buried obstructions and voids associated with former structures and utilities.

Existing utilities may present a constraint to the development in some areas.

Specialist advice is required to understand potential risk from UXO for some areas of the site.

There are a number of existing slopes which need to be assessed for stability and the potential impact on the development mitigated. Ongoing monitoring or inspections may be required for the slopes.

- The existing plateau slope B2 is over-steep and requires regrading to mitigate risk to the development and surrounding assets.
- P&P slope B1 has marginal stability but could be assessed for a managed risk approach, with development outside of the potential risk zone. There is no immediately obvious visual evidence of instability, however initial data from two inclinometer installations indicates possible movement of the P&P slope. The data is, however, inconclusive and the possibility of operator or instrument error needs to be investigated. Further validation of the existing data, together with the collection of additional monitoring data is required.
- The stability of the slopes is reliant on the integrity of the river walls.
- The NE boundary to the site sits on a slope which extends into 3rd party land. Efforts should be made not to alter the loading conditions of 3rd Party slopes.

Existing retaining walls may be affected by the development. Their stability should be considered.

Cut and fill earthworks will be required to remove existing obstructions and create development platforms.

- Most of the material excavated will be made ground, some will be suitable for use as general fill, however some processing will be required. Sorting of excavated made ground will be required to eliminate unacceptable materials.
- Most of the material should be classified as non-hazardous waste. Localised areas of hazardous waste are expected.
- The GI data may not be representative for all material excavated and there is a risk that quantities will vary.
- Additional engineering and chemical testing will be required during construction to confirm suitability for re-use.
- It may be necessary to send unsuitable or surplus material off-site for disposal.
- It is likely that some engineering fill will need to be imported, particularly for specific applications.

It is likely that made ground exposed at sub-formation level will exhibit poor in-situ CBR values, however compaction of these materials will improve performance. A design CBR of 5% is considered appropriate for formations on in-situ and reengineered granular made ground, however soft spots should be anticipated which will require removal and replacement with acceptable material. Validation of the CBR by plate load

testing will be required during construction. There may be an opportunity with additional site testing to demonstrate higher CBR values.

A programme of monitoring should be undertaken to monitor settlement of soils underlying the proposed earthworks. Extensometers installed as part of this monitoring programme should be provided and at least two rounds of baseline monitoring undertaken before filling commences. To validate design assumptions, monitoring should continue after filling is complete.

It has been assumed that any developments within the plots will be found on piles to limit the risk of settlement to the development and infrastructure works. The existing made ground is not recommended for supporting anything but lightly loaded ancillary structures.

The future design of works on individual plots will need to consider settlement, to demonstrate that it will not have an adverse impact on the infrastructure works. Movement monitoring may be required to manage the risk.

10.2 Key geoenvironmental issues

Contaminated ground and groundwater have been identified during the ground investigations:

- Around the former gasworks in St Catherine's Wood which may pose a risk to human health and controlled waters.
- Around the former carriage shed on Red Bank Plateau which may pose a risk to human health and controlled waters.
- Oils may be encountered during excavation, which may present a risk to groundwater and may impact the potential for reuse of site-won soil. If identified during the works, additional localised remediation and validation may be required.
- Hazards associated with the presence of asbestos fibres and asbestos containing materials in made ground, which will require mitigation during construction and operation of the site.
- Contaminants including metals, hydrocarbons and PAH within the made ground, which will require mitigation during construction and operation, including during any interim periods between the completion of remediation and the beginning of plot development;
- Potential contaminant linkages relating to impact on the River Irk and bedrock aquifers have been identified in the DQRA. Remediation works are required to the former gasworks and former carriage shed areas to address these issues.

Ground gas risk assessment has indicated a limited area of potential CS3 conditions associated with a former reservoir, at the base of the made ground. Elsewhere, CS2 conditions should be assumed. The requirements for gas protection will vary depending on the nature of the development and should be defined by others for each plot.

The identified risks to construction workers during the HIF Infrastructure Works can be addressed with mitigation measures standard for brownfield site construction works.

Within the Red Bank Terrace and St. Catherine's Wood areas of the site, the provision of clean cover soils (topsoil and subsoil) as set out in the Landscape Specification [3] is considered to address the identified risks. Some minor residual risk associated with potential asbestos fibres in shallow soils may exist in the north of St. Catherine's Wood however, the provision of clean cover soils to address these risks will not be possible without vegetation and tree clearance, which will be incompatible with the client's stated ecological objectives for this area.

Potential contaminant linkages have been identified post-infrastructure works relating to human health, where there is no barrier to prevent direct contact with existing site soils (e.g. in landscaped areas or gardens).

The outline remediation strategy aims to mitigate the identified risks associated with the infrastructure works and to ensure that any unacceptable risks to groundwater or the River Irk are addressed. Future plot

developers will be required to mitigate the residual risks: e.g. clean cover in residential gardens or landscaping, protection for pipe materials and ground gas protection for buildings.

10.3 Recommendation of further investigation

- Further inclinometer data should be obtained and assessed to develop a better understanding of the current stability of the P&P slope.
- Further ground gas monitoring is recommended from borehole installations in the former Creamline Dairy site (BH311B and BH312A) and from installations in the infilled former reservoirs (BH210, BH211A and BH314).
- Further ground gas monitoring is recommended from BH320, to assess hydrogen sulphide and carbon monoxide risks.
- Fly-tipped material and debris in the river should be tested to determine waste disposal routes.
- Further investigation of the void encountered in BH308.

11. References

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Appendix A - Ground investigation rationales

Planned scope of 2021 Ground Investigation

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
GEO_BH201	CP+RC	15	384766	399826	SPT every 1m for first 5m, then every 1.5m. GW, response zone in rock/deep MG	Rough ground	CP terminates at rockhead. RC 5m into rock. Flush cover.	Investigate rock quality. Installation to detect gas/leachate migration onto site from adjacent Queens Road landfill. Response zone detail provisional, pending review of groundwater flow.
GEO_BH202	CP	10	384724	399722	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate area beneath former carriage shed, potential contamination. Response zone detail provisional, pending review of groundwater flow.
GEO_BH203	CP	8	384856	399747	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate former river Irk channel beneath Red Bank. Response zone detail provisional, pending review of groundwater flow.
GEO_BH204	CP+RC	15	384816	399708	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	CP terminates at rockhead. RC 5m into rock. Flush cover.	Investigate former river channel beneath Red Bank. Response zone detail provisional, pending review of groundwater flow.
GEO_BH205	CP+RC	15	384686	399733	SPT every 1m for first 5m, then every 1.5m. GW, response zone in rock/deep MG	Rough ground	CP terminates at rockhead. RC 5m into rock. Flush cover.	Investigate rock quality. Installation to detect gas/leachate migration onto site from adjacent Queens Road landfill. Response zone detail provisional, pending review of groundwater flow.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
GEO_BH206	CP	8	384731	399693	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate potential contamination associated with former railway sidings. Response zone detail provisional, pending review of groundwater flow.
GEO_BH207	CP	10	384656	399622	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate former river/stream channel beneath Red Bank. Response zone detail provisional, pending review of groundwater flow.
GEO_BH208	CP	10	384565	399593	SPT every 1m for first 5m, then every 1.5m. GW, response zone in rock/deep MG	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate potential contamination associated with former railway sidings. Response zone detail provisional, pending review of groundwater flow.
GEO_BH209	CP+RC	15	384554	399632	SPT every 1m for first 5m, then every 1.5m. GW, response zone in rock/deep MG	Rough ground	CP terminates at rockhead. RC 5m into rock. Flush cover.	Investigate former river/stream channel beneath Red Bank. Response zone detail provisional, pending review of groundwater flow.
GEO_BH210	CP+RC	15	384478	399555	SPT every 1m for first 5m, then every 1.5m. GW, response zone in rock/deep MG	Rough ground	CP terminates at rockhead. RC 5m into rock. Flush cover.	Investigate old reservoir buried beneath red bank, potential for ground gas. Response zone detail provisional, pending review of groundwater flow.
GEO_BH211	CP	10	384448	399513	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate old reservoir buried beneath red bank, potential for ground gas. Response zone detail provisional, pending review of groundwater flow.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
GEO_BH212	CP+RC	15	384490	399427	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Tarmac/concrete car park.	CP terminates at rockhead. RC 5m into rock. Flush cover. Reinstatement of surfacing will be required.	Investigate contamination associated with former dye works. Response zone detail provisional, pending review of groundwater flow.
GEO_BH213	CP	10	384467	399489	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Rough ground	Terminate at rockhead/refusal. Flush cover	Investigate ground conditions at toe of slope, former scrapyard and dye works contamination potential. Response zone detail provisional, pending review of groundwater flow.
GEO_BH214	CP	8	384397	399371	SPT every 1m for first 5m, then every 1.5m. GW, response zone in MG/alluvium	Tarmac	Terminate at rockhead/refusal. Flush cover. Reinstatement of surfacing will be required.	Investigate potential contamination associated with former dye works, iron works, potential obstructions from terraced housing. Response zone detail provisional, pending review of groundwater flow.
GEO_BH215	CP	10	384371	399541	SPT every 1m for first 5m, then every 1.5m. No installation required.	Tarmac/concrete	Terminate at rockhead/refusal. Reinstatement of surfacing will be required.	Confirm ground conditions in area of proposed access route into red bank.
GEO_CORE_01	Core	N/A	384660	399720	None	Brick retaining wall	Horizontal core to recover samples from existing retaining wall. Reinstatement to be advised.	Investigate wall construction, condition.
GEO_CORE_02	Core	N/A	384568	399655	None	Brick retaining wall	Horizontal core to recover samples from existing retaining wall.	Investigate wall construction, condition.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
							Reinstatement to be advised.	
GEO_CORE_03	Core	N/A	384486	399603	None	Brick retaining wall	Horizontal core to recover samples from existing retaining wall. Reinstatement to be advised.	Investigate wall construction, condition.
GEO_TP201	TP	4.5	384772	399796	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Former carriage shed, potential contamination and obstructions
GEO_TP202	TP	4.5	384735	399751	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Former carriage shed, potential contamination and obstructions
GEO_TP203	TP	4.5	384784	399725	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		In footprint of former railway building, possible gasworks, potential for contamination and obstructions
GEO_TP204	TP	4.5	384850	399737	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground	Position exactly, TP to locate former gasholder base. Contamination likely.	Northern railway gasholder – position exactly
GEO_TP205	TP	4.5	384852	399728	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground	Position exactly, TP to locate former gasholder base. Contamination likely.	Southern railway gasholder – position exactly
GEO_TP206	TP	4.5	384835	399756	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Within footprint of former gasworks building, contamination potential and obstructions

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
GEO_TP207	TP	4.5	384807	399751	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Former chimney associated with gasworks, potential for contamination and obstructions
GEO_TP208	TP	4.5	384847	399746	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Within footprint of former buildings, contamination potential and obstructions
GEO_TP209	TP	4.5	384818	399804	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Railway sidings area, potential for contamination and obstructions
GEO_TP210	TP	4.5	384824	399776	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Former buildings, potential for contamination and obstructions
GEO_TP211	TP	4.5	384751	399691	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Former buildings, potential for contamination and obstructions
GEO_TP212	TP	4.5	384617	399654	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Railway sidings area, potential for contamination and obstructions
GEO_TP213	TP	4.5	384700	399654	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Railway sidings area, potential for contamination and obstructions
GEO_TP214	TP	3	384666	399726	3 x Mexe Cone and 1 x DCP at	Rough ground	In tandem with horizontal core through retaining wall.	To investigate footings of existing retaining wall. Logging of footings required.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
					depth less than 1.2m			
GEO_TP215	TP	4.5	384585	399619	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		Railway sidings area, potential for contamination and obstructions
GEO_TP216	TP	3	384576	399656	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground	In tandem with horizontal core through retaining wall.	To investigate footings of existing retaining wall. Logging of footings required.
GEO_TP217	TP	3	384492	399608	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground	In tandem with horizontal core through retaining wall.	To investigate footings of existing retaining wall. Logging of footings required.
GEO_TP218	TP	3	384525	399593	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Rough ground		To investigate old railway turntable, trial pit to be excavated down outside of structure to check construction.
GEO_TP219	TP	5	384427	399443	3 x Mexe Cone and 1 x DCP at depth less than 1.2m	Tarmac/concrete		Former area of terraced housing, potential for infilled cellars and contamination in cellar infill.
GEO_WS201	WS	5	384732	399777	GW, response zone in MG/alluvium	Rough ground	Flush cover.	Located on boundary with Queens Road landfill, to investigate gas/leachate migration from landfill site. Response zone detail provisional, pending review of groundwater flow.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
GEO_WS202	WS	5	384861	399781	GW, response zone in MG/alluvium	Rough ground	Flush cover	To investigate made ground in former railway sidings, may be deeper in this area than trial pitting can prove. Response zone detail provisional, pending review of groundwater flow.
GEO_WS203	WS	5	384750	399568	None	Rough ground		To obtain information for river edge reprofiling, include WAC testing.
GEO_WS204	WS	5	384790	399578	None	Rough ground		To obtain information for river edge reprofiling, include WAC testing.
GEO_WS205	WS	8	384679	399675	None	Rough ground		Railway sidings, made ground expected to be deeper than could be proven with a trial pit in this area. Prove depth of made ground and check contamination of ground.
GEO_WS206	WS	5	384841	399635	None	Rough ground		To obtain information for river edge reprofiling, include WAC testing.
GEO_WS207	WS	5	384628	399678	GW, response zone in MG/alluvium	Rough ground	Flush cover	Made ground expected to be deeper than could be proven in trial pit in this area. Prove depth of made ground and check contamination of ground. Response zone detail provisional, pending review of groundwater flow.
GEO_WS208	WS	8	384567	399467	None	Rough ground	In travellers site. Special access arrangements apply. To investigate	To locate and check condition of southern gasholder – position to locate this feature.

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
							former gasholder base. Contamination expected.	Nature of infill and contamination to be proven.
GEO_WS209	WS	5	384529	399443	GW, response zone in MG/alluvium	Concrete/tarmac	In travellers site. Special access arrangements apply. Flush cover on installation. Reinstatement of surfacing will be required.	To check groundwater quality at assumed downstream position of gasholders. Response zone detail provisional, pending review of groundwater flow.
GEO_WS210	WS	5	384522	399611	GW, response zone in MG/alluvium	Concrete/tarmac	Flush cover. Reinstatement of surfacing will be required.	In former stream channel. Response zone detail provisional, pending review of groundwater flow.
GEO_WS211	WS	5	384555	399571	None	Rough ground		Made ground expected to be deeper than could be proven in trial pit in this area. Prove depth of made ground and check contamination of ground. Response zone detail provisional, pending review of groundwater flow.
GEO_WS212	WS	5	384498	399534	None	Rough ground		Made ground expected to be deeper than could be proven in trial pit in this area. Prove depth of made ground and check contamination of ground. Response zone detail provisional, pending review of groundwater flow.
GEO_WS213	WS	5	384437	399534	None	Rough ground		Made ground expected to be deeper than could be proven in trial pit in this area. Prove depth of made ground and check

Hole	Type	Scheduled depth (m)	National Grid (provisional)		In-situ tests* and installations (response zones and depths)	Existing ground surface type	Remarks	Rationale
			Easting (m)	Northing (m)				
								contamination of ground. Response zone detail provisional, pending review of groundwater flow.
GEO_WS214	WS	5	384418	399540	None	Rough ground		To prove ground conditions along proposed access road.
GEO_WS215	WS	8	384247	399228	GW, response zone in MG/alluvium	Rough ground	Flush cover	To investigate historical subway located in this area. Position according to historical map location. Was formerly tannery, contamination possible in this location.

Planned Scope of 2022 Ground Investigation

Holes to be completed																								
Hole ID	**Type**	**Ground Level (mOD)**	**Anticipated Rockhead Level (mOD)**	**Anticipated Depth to Rockhead (mbgl)**	**Rotary Follow-on (m)**	**Scheduled Depth (m)**	**TP 0 to 3m**	**TP 3 to 4.5m**	**CP 0 to 10m**	**CP 10 to 20m**	**Total Rotary Drillng**	**SPT**	**Bulk Sample**	**Disturbed samples**				**Scheduled Depth (mOD)**	**Location Reference**	**Easting**	**Northing**	**Ground surface**	**Installation**	**Comments**
BH301	Cable Percussion	41.00	25	16	N	20	0	0	10	10	0	14	20	20						384858	399761	Made ground	Inclinometer	Crest of slope (1) In former gas works area (8) Confirmation of rockhead (15) Inclinometer installation (17) - base level installed in rockhead
BH302	Cable Percussion	43.00	28	15	N	20	0	0	10	10	0	14	20	20						384827	399705	Paved - possible relic floor slab	Inclinometer	Crest of slope (1) Adjacent former gas works area (8) Confirmation of rockhead (15) Inclinometer installation (17) - base level installed in rockhead
BH303	Cable Percussion	42.00	34	8	N	10	0	0	10	0	0	7	10	10						384720	399660	Made ground	Gas/GW	Crest of Slope (1) Confirmation of rockhead (15) GW Monitoring installation (4)
BH304	Cable Percussion	41.00	28	13	N	20	0	0	10	10	0	14	20	20						384618	399592	Made ground	Gas/GW	Crest of slope (1) Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) GW Monitoring installation (4)
BH305	Cable Percussion	39.80	28	12	N	20	0	0	10	10	0	14	20	20						384532	399543	Made ground	Gas/GW	Crest of slope (1) Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) GW Monitoring installation (4)
BH306	Cable Percussion	31.50	27	5	N	8	0	0	8	0	0	6	8	8						384531	399493	Hardstanding	Gas/GW	Base of slope (2) Conditions adj to river and behind retaining walls (2) Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) GW Monitoring installation (4)
BH307	Cable Percussion	31.00	25	6	N	10	0	0	10	0	0	7	10	10						384448	399444	Hardstanding	Gas/GW	Addressing gaps in previous GI coverage (12) GW Monitoring installation (4) Confirmation of rockhead (15)
BH308	Cable Percussion	30.00	25	5	N	8	0	0	8	0	0	6	8	8						384473	399399	Hardstanding	Gas/GW	Conditions adj to river and behind retaining walls (2) Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) GW Monitoring installation (4)
BH309	Cable Percussion/Rotary follow on	30.00	28	6	Yes	12	0	0	10	2	6	8	12	12						384863	399641	Hardstanding	Gas/GW	Conditions adj to river and behind retaining walls (2) GI at proposed bridge abutments (16) Confirmation of rockhead (15) Coring of solid strata to assist in pile design GW Monitoring installation (4)
BH310	Cable Percussion/Rotary follow on	31.40	30	6	Yes	12	0	0	10	2	6	8	12	12						384845	399642	Made ground	Gas/GW	Conditions adj to river and behind retaining walls (2) GI at proposed bridge abutments (16) Confirmation of rockhead (15) GW Monitoring installation (4) Coring of solid strata to assist in pile design Infiltration tests in BH/installation
BH311	Cable Percussion	45.50	31	15	N	18	0	0	10	8	0	18	18	18						384415	399557	Hardstanding	Gas/GW	Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) GW Monitoring installation (4)
BH312	Cable Percussion	45.00	29	16	N	20	0	0	10	10	0	20	20	20						384383	399518	Made ground/paving	Gas/GW	Addressing gaps in previous GI coverage (12) GW Monitoring (4) Confirmation of rockhead (15) Infiltration tests in BH/installation Required for design of entrance cutting/embankment and with retaining wall.
BH313	Cable Percussion	43.00	29	14	N	18	0	0	10	8	0	18	18	18						TBC	TBC	Made ground	Gas/GW	Borehole adjacent to the top of the railway viaduct to confirm infill materials Required for design of entrance cutting/embankment and with retaining wall.
BH314	Cable Percussion	43.00	29	14	N	16	0	0	10	6	0	16	16	16						TBC	TBC	Made ground	Gas/GW	Addressing gaps in previous GI coverage (12) GW Monitoring (4) Confirmation of rockhead (15) Borehole adjacent to proposed area of regrading - to confirm infill materials
BH315	Cable Percussion	43.00	26	17	N	20	0	0	10	10	0	20	20	20						TBC	TBC	Made ground	Gas/GW	Crest of slope (1) In former gas works area (8) Confirmation of rockhead (15) GW Monitoring installation (4)

BH320	Drilling method to be determined by contractor to suit site and anticipted ground conditions	34.00	26	8	-	10	0	0	10	0	0	10	10	10						384895	399757	Made ground	Gas/GW	Toe of slope (1) Along river bank (2) Conditions adj to river and behind retaining walls (2) Confirmation of rockhead (15)
BH321	Drilling method to be determined by contractor to suit site and anticipted ground conditions	35.00	32	3	-	6	0	0	6	0	0	6	6	6						384774	399640	Made ground	Gas/GW	Toe of slope (1) Additional geotechnical sampling in area of proposed excavation/regrading (11) GW Monitoring installation (4) Infiltration tests in BH/installation
BH322	Drilling method to be determined by contractor to suit site and anticipted ground conditions	32.50	31	2	-	6	0	0	6	0	0	6	6	6						384716	399588	Made ground	Gas/GW	Toe of slope (1) Along river bank (2) GW Monitoring installation (4) Infiltration tests in BH/installation Conditions adj to river and behind retaining walls (2)
BH323	Drilling method to be determined by contractor to suit site and anticipted ground conditions	31.50	28	4	-	8	0	0	8	0	0	8	8	8						384658	399579	Made ground	Gas/GW	Toe of slope (1) Along river bank (2) Conditions adj to river and behind retaining walls (2) Confirmation of rockhead (15) GW Monitoring installation (4)
BH324	Drilling method to be determined by contractor to suit site and anticipted ground conditions	29.50	28	2	-	8	0	0	8	0	0	8	8	8						384588	399557	Made ground	Gas/GW	Toe of slope (1) Along river bank (2) Conditions adj to river and behind retaining walls (2) GW Monitoring installation (4) Infiltration tests in BH/installation
BH325	Drilling method to be determined by contractor to suit site and anticipted ground conditions	30.00	26	4	-	8	0	0	8	0	0	8	8	8						384445	399360	Hard Standing	Gas/GW	Conditions adj to river and behind retaining walls (2) Addressing gaps in previous GI coverage (12) Confirmation of rockhead (15) Infiltration tests in BH/installation
TT301	Trial trench - 360 degree excavator	43.00	28	15	-	4.5	3	1.5	0	0	0	0	5	5						384836	399723	Paved - possible relic floor slab		In former gas works area (8) Assume 10m long trench required
TT302	Trial trench - 360 degree excavator	43.00	25	18	-	4.5	3	1.5	0	0	0	0	5	5						384840	399744	Paved - possible relic floor slab		In former gas works area (8) Assume 10m long trench required
TT303	Trial trench - 360 degree excavator	43.00	28	15	-	4.5	3	1.5	0	0	0	0	5	5						384862	399747	Paved - possible relic floor slab		In former gas works area (8) Assume 10m long trench required
TP304	Trial pit - 360 degree excavator	40.50	28	13	-	4.5	3	1.5	0	0	0	0	5	5						384624	399631	Made ground		Additional geotechnical sampling in area of proposed excavation/regrading (11) Addressing gaps in previous GI coverage (12)
TP305	Trial pit - 360 degree excavator	40.50	28	13	-	4.5	3	1.5	0	0	0	0	5	5						384580	399584	Made ground		Additional geotechnical sampling in area of proposed excavation/regrading (11)
TP306	Trial pit - 360 degree excavator	41.00	28	13	-	4.5	3	1.5	0	0	0	0	5	5						384500	399572	Made ground		Additional geotechnical sampling in area of proposed excavation/regrading (11)
TP307	Trial pit - 360 degree excavator	40.00	29	11	-	4.5	3	1.5	0	0	0	0	5	5						384465	399509	Made ground		To investigate poor recovery in BH106
TP308	Trial pit	41.00	30	11	-	3	3	0	0	0	0	0	3	3						384575	399640	Made ground		Potable water supply assessment (7)
TP309	Trial pit	43.00	37	6	-	3	3	0	0	0	0	0	3	3						384723	399768	Made ground		Potable water supply assessment (7)
TP310	Trial pit	43.00	34	9	-	3	3	0	0	0	0	0	3	3						384772	399711	Made ground		Potable water supply assessment (7)
OP01	Observation pit	40.00				1.2	1.2						2	2										Investigate extent of buried former railway viaduct (18)
OP02	Observation pit	40.00				1.2	1.2						2	2										Investigate extent of buried former railway viaduct (18)
OP03	Observation pit	40.00				1.2	1.2						2	2										Investigate extent of buried former railway viaduct (18)
OP04	Observation pit	40.00				1.2	1.2						2	2										Investigate extent of buried former railway viaduct (18)
SWS Upstream	Surface water sample	-																				-		Sample on three occasions (9)
SWS Midstream	Surface water sample	-																				-		Sample on three occasions (9)
SWS Downstream	Surface water sample	-																				-		Sample on three occasions (9)
Sediment sample Upstream	Sediment sample from river bed	-																				-		Sample on three occasions (10) Analysis to include WAC testing and haz waste on line assessment - disposal options
Sediment sample Mid stream	Sediment sample from river bed	-																				-		Sample on three occasions (10) Analysis to include WAC testing and haz waste on line assessment - disposal options
Sediment sample downstream	Sediment sample from river bed	-																				-		Sample on three occasions (10) Analysis to include WAC testing and haz waste on line assessment - disposal options

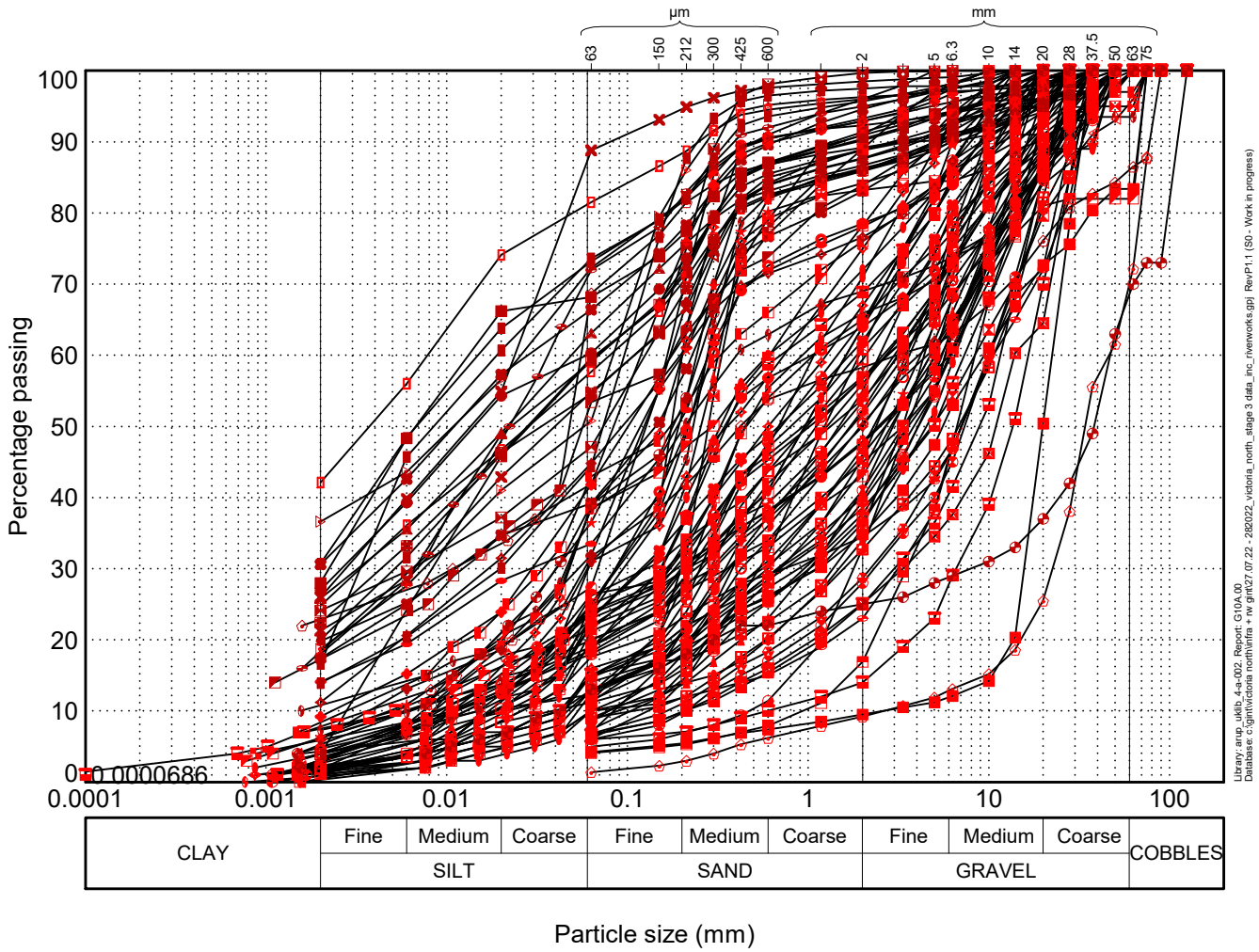
Other issues:

1 Needs leachability testing on selecetd soil samples

2 GI contractor to inspect all Phase 1 and Phase 2 borehole installation for serviceability for on-going gas and groundwater monitoring and report to Arup. Arup will then confirm GW and gas monitoring and sampling requirements.

1. BHs along crest and toe of slopes to validate slope stability assessments.
2. BHs or WS holes along river to confirm conditions adjacent to existing retaining walls and to provide further data on alluvial deposits.
    a) to assist with risk assessment (river) and regrading river banks.
3. BHs to provide further data on depth to engineering rockhead to fill data gaps. – not sure we can do anything – main gap is in ST Cath's Wood – only hand held(?) WS access plus – not building anything – except bridge abutments (see 15).
4. Selected BHs will be provided with gw monitoring installations (to complement existing serviceable installations).
    a) with monitoring to confirm hydraulic gradient across site.
    b) for use in controlled waters risk assessment and validation of slope stability assessments.
5. Selected BHs provided with gas monitoring installations - particularly in NW and NE of the site adjacent to existing former landfill sites (to complement existing serviceable installations).
    a) with monitoring to confirm ground gas conditions.
6. Sampling of groundwater from installations for analysis plus leachability testing of soil samples.
    a) for use in controlled waters risk assessment.
7. Sampling of shallow made ground along main potable water corridors with relevant analysis (trial pits)
    a) to allow requirements for potable supply pipe to be determined.
8. Confirmatory GI in area of gas works (trial pits)
    a) to satisfy likely EA requirements - following vegetation clearance in this area.
9. Surface water sampling from river (to complement existing sampling under River Works contract).
    a) for use in controlled waters risk assessment.
10. Sediment sampling and analysis from river (to complement existing sampling under River Works contract).
    a) for use to determine waste disposal options.
11. Additional geotechnical sampling and testing in areas of proposed excavation to confirm suitability of arisings for re-use (Proctor tests, moisture content, PSD, Atterburg, WAC and Haz Waste on line).
12. Additional GI to fill spatial gaps in coverage (e.g. Creamline Dairies – post demolition/Enabling Works).
13. Not used
14. Not used
15. Confirmation of rockhead across site
16. BHs at proposed bridge abutment locations.
17. Assess current stability of slopes using inclinometers
18. Investigate extent of railway viaduct, that in parts of the site may be buried

Appendix B - Geotechnical material properties



Library: arup_uklib_4-a-002, Report: G10A.00
Database: c:\gint\victoria northlinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- BH303
- BH304
- BH305
- BH311
- BH312
- BH313
- BH324
- GEO_BH202
- GEO_BH207
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_BH210
- BH326
- BH327
- BH328
- GEO_WS201
- GEO_WS205
- GEO_WS207
- GEO_WS210
- GEO_WS211
- GEO_WS212
- GEO_WS213
- GEO_WS214
- 01_TP101
- 01_TP104
- 01_TP109
- 01_TP112
- 01_TP115
- GEO_TP201
- GEO_TP202
- GEO_TP203
- GEO_TP207
- GEO_TP209
- GEO_TP210
- GEO_TP211
- GEO_TP212
- GEO_TP213
- GEO_TP214
- GEO_TP215
- GEO_TP216
- GEO_TP217
- GEO_TP218
- TP304
- TP305
- TP306
- TP308
- TP309
- TP310

ARUP

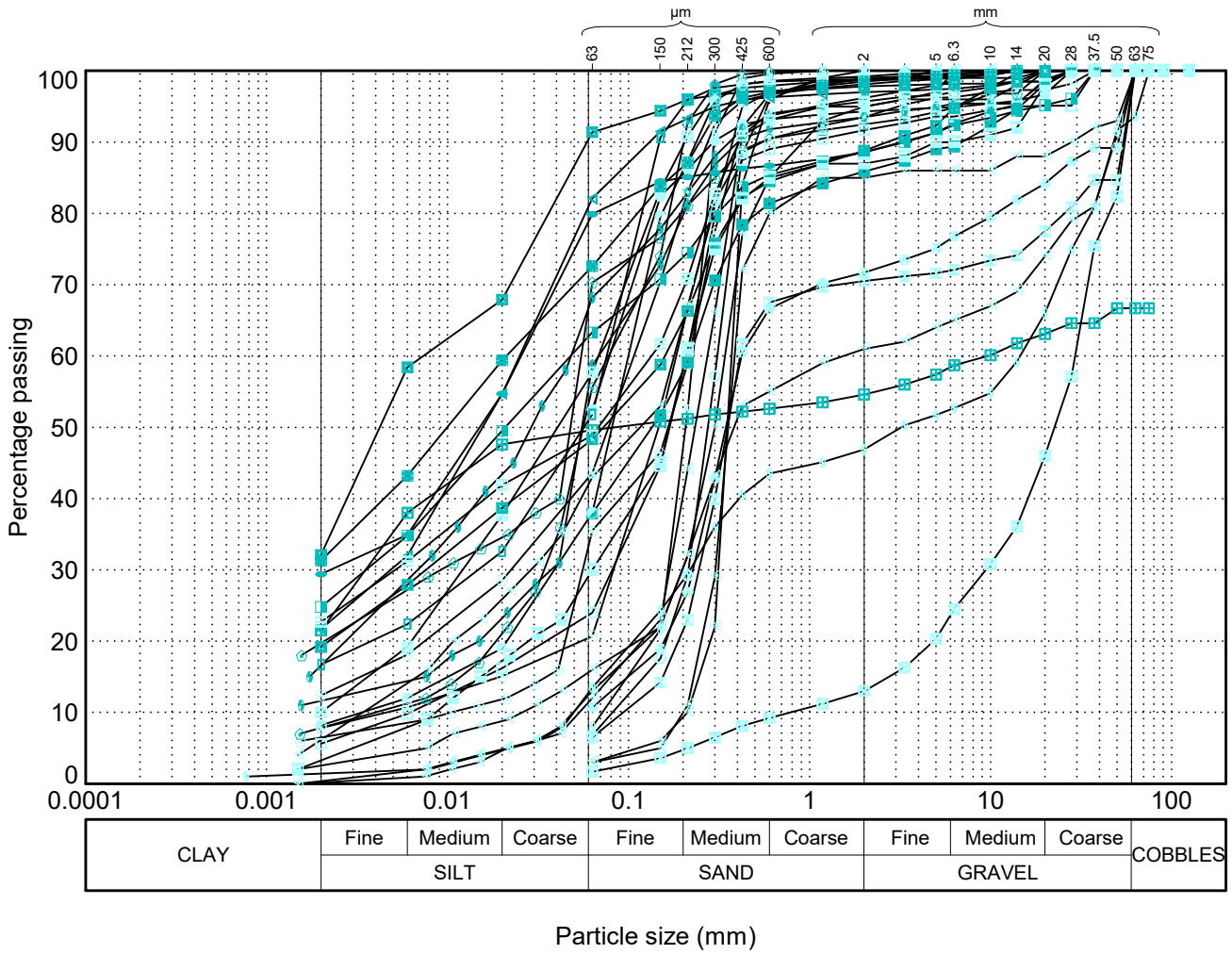
Job Title
Victoria North

Figure Title
Particle size distribution
Redbank Plateau

Job No
282022

Chart 1A

ARUP_gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



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Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH105
- BH311
- BH312
- BH313
- GEO_BH202
- GEO_BH206
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_BH210
- 01_TP101
- 01_TP104
- 01_TP108
- GEO_TP201
- GEO_TP209
- GEO_TP210
- GEO_TP211
- GEO_TP215
- TP309

ARUP

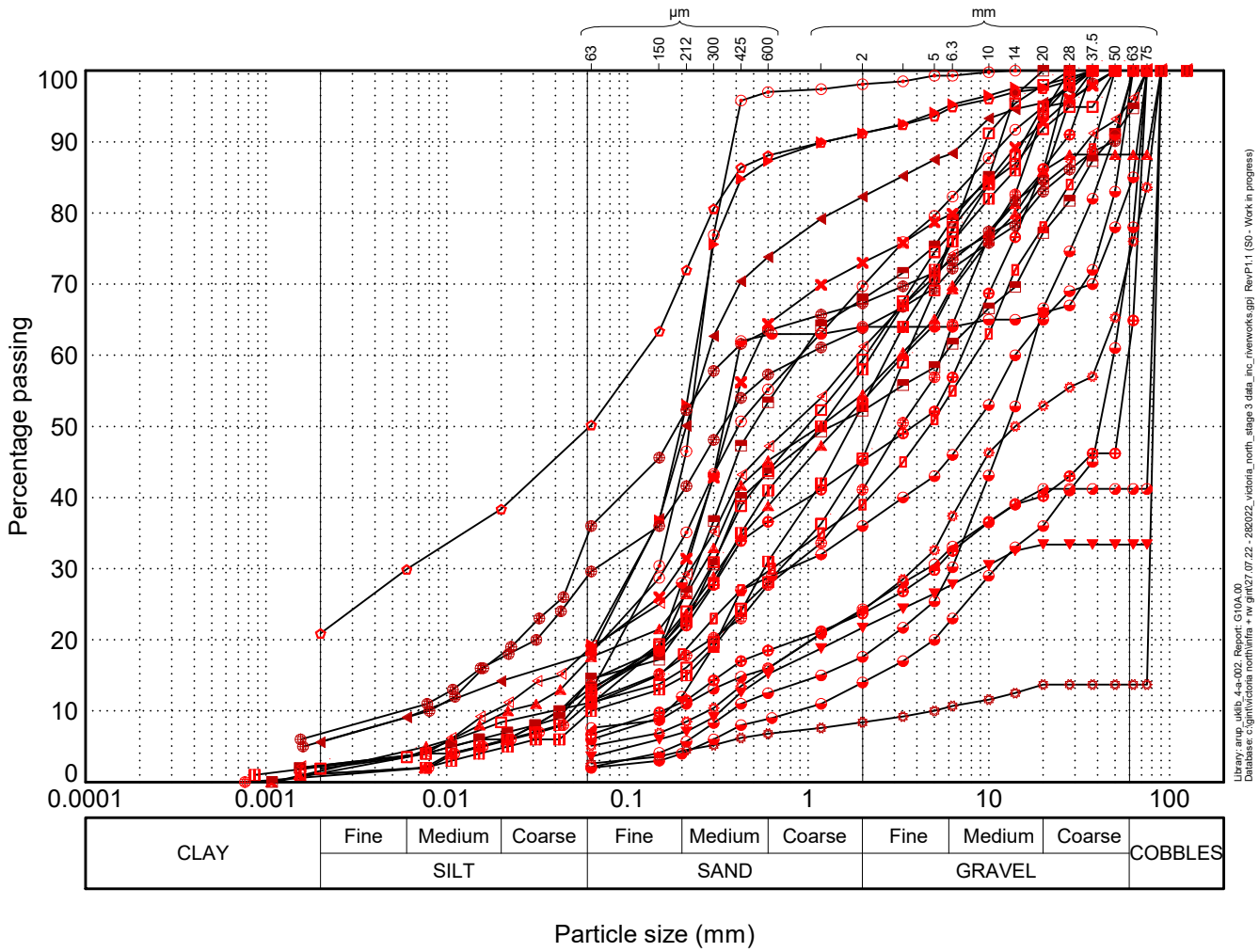
Job Title
Victoria North

Figure Title
Particle size distribution
Redbank Plateau

Job No
282022

Chart 1B

ARUP_gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



Library: arup_uklib_4-a-002, Report: G10A.00
Database: c:\gint\victoria northlinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH106
- 01_BH110
- 01_BH112
- BH306
- BH307
- BH308
- BH313
- BH314
- BH325
- GEO_BH211A
- GEO_BH214A
- GEO_BH212
- RE15
- RE13A
- 01_TP119
- 01_TP121
- GEO_TP219
- TP307

ARUP

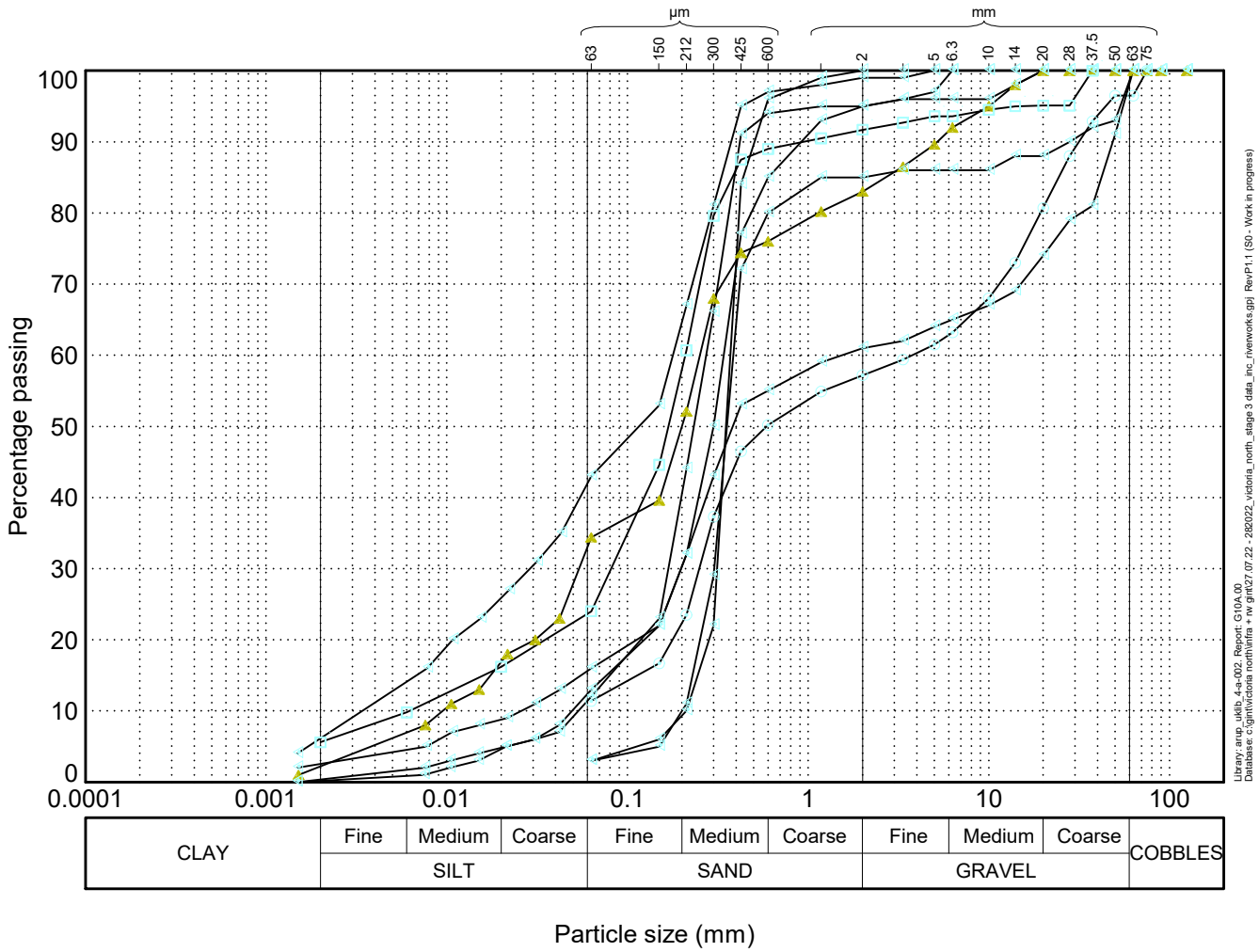
Job Title
Victoria North

Figure Title
Particle size distribution
St Catherine's Wood

Job No
282022

Chart 1C

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



Library: arup_uklib_4-a-002, Report: G10A.00
Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Alluvium Cohesive (ALV-CO)
- Glacial Till Deposits - Granular (GTD - G)
- BH306
- BH313
- GEO_BH211A
- GEO_TP219

ARUP

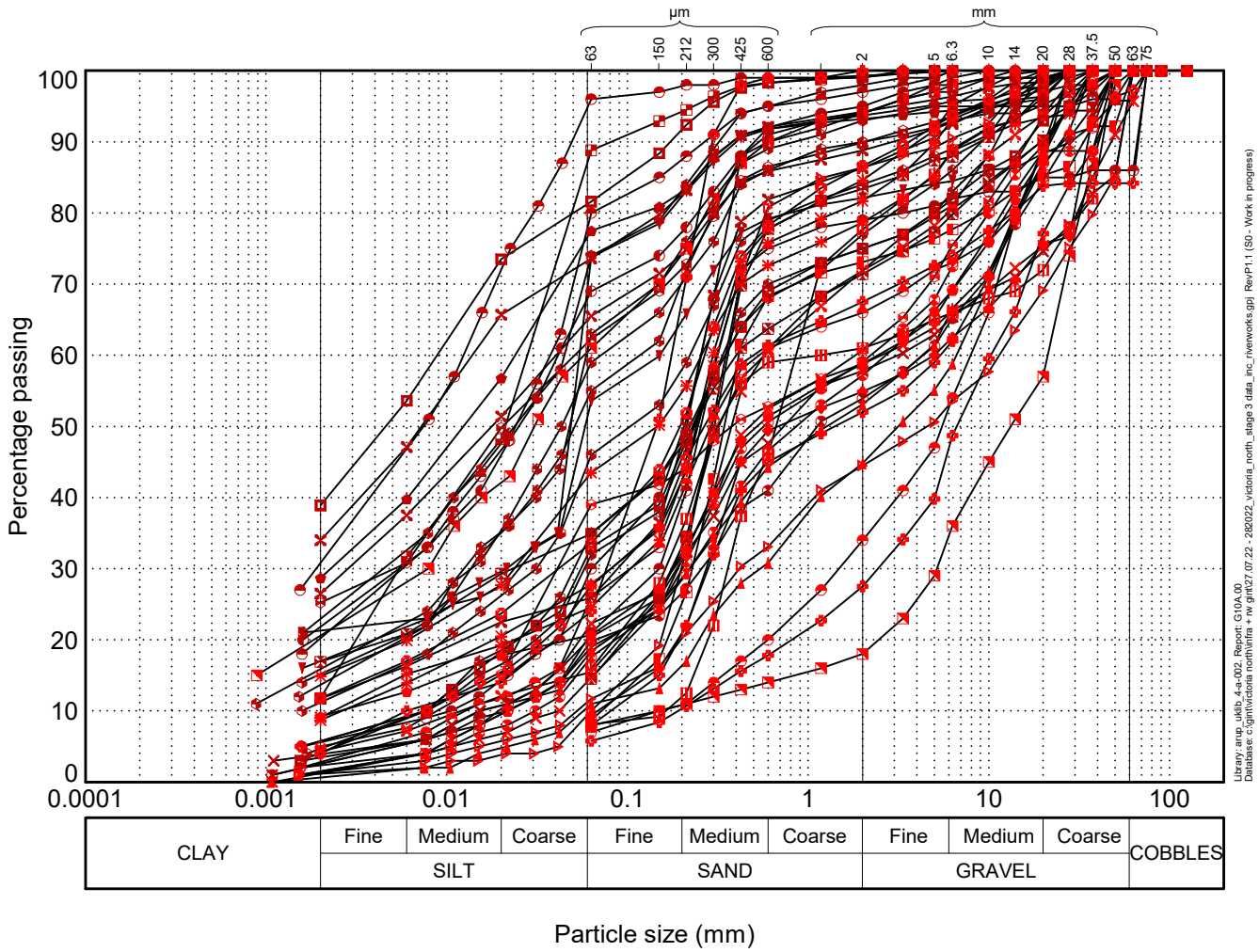
Job Title
Victoria North

Figure Title
Particle size distribution
Redbank Terrace

Job No
282022

Chart 1D

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



Library: arup_uklib_4-a-002, Report: G10A.00
Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- BH301
- BH302
- BH315
- GEO_BH204
- GEO_BH203
- BH309
- BH310
- 01_WS102
- BH321
- BH322
- BH323
- GEO_WS202
- GEO_WS203A
- GEO_WS206
- GEO_TP204
- GEO_TP205
- GEO_TP206A
- GEO_TP208
- TT301
- TT303
- TT303A
- BH320

ARUP

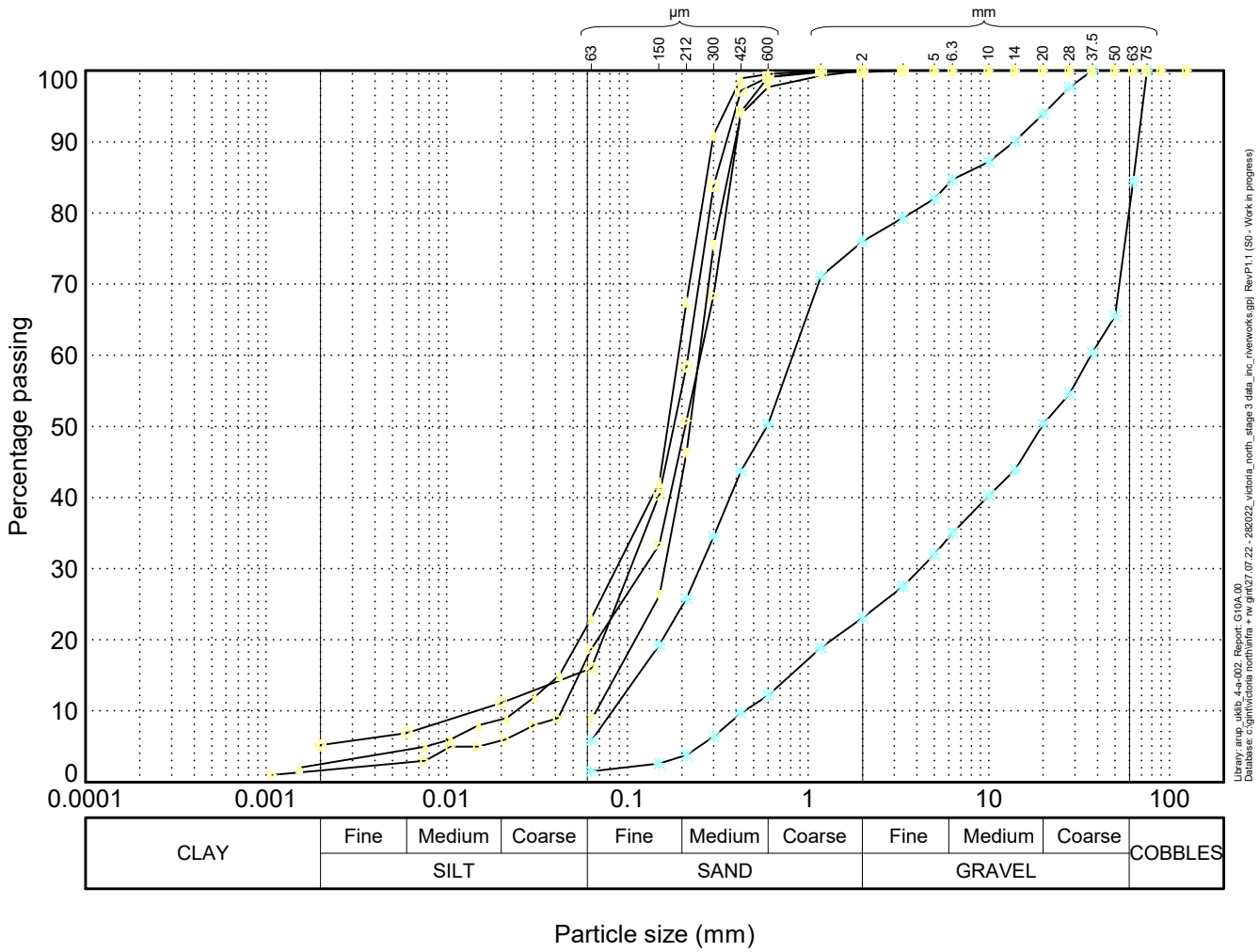
Job Title
Victoria North

Figure Title
Particle size distribution
St Catherine's Wood

Job No
282022

Chart 1E

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



Alluvium granular (ALV-G)
Glacial Till Deposits - Granular (GTD - G)
BH315
GEO_BH203
BH310
BH322
GEO_WS203A

ARUP

Job Title
Victoria North

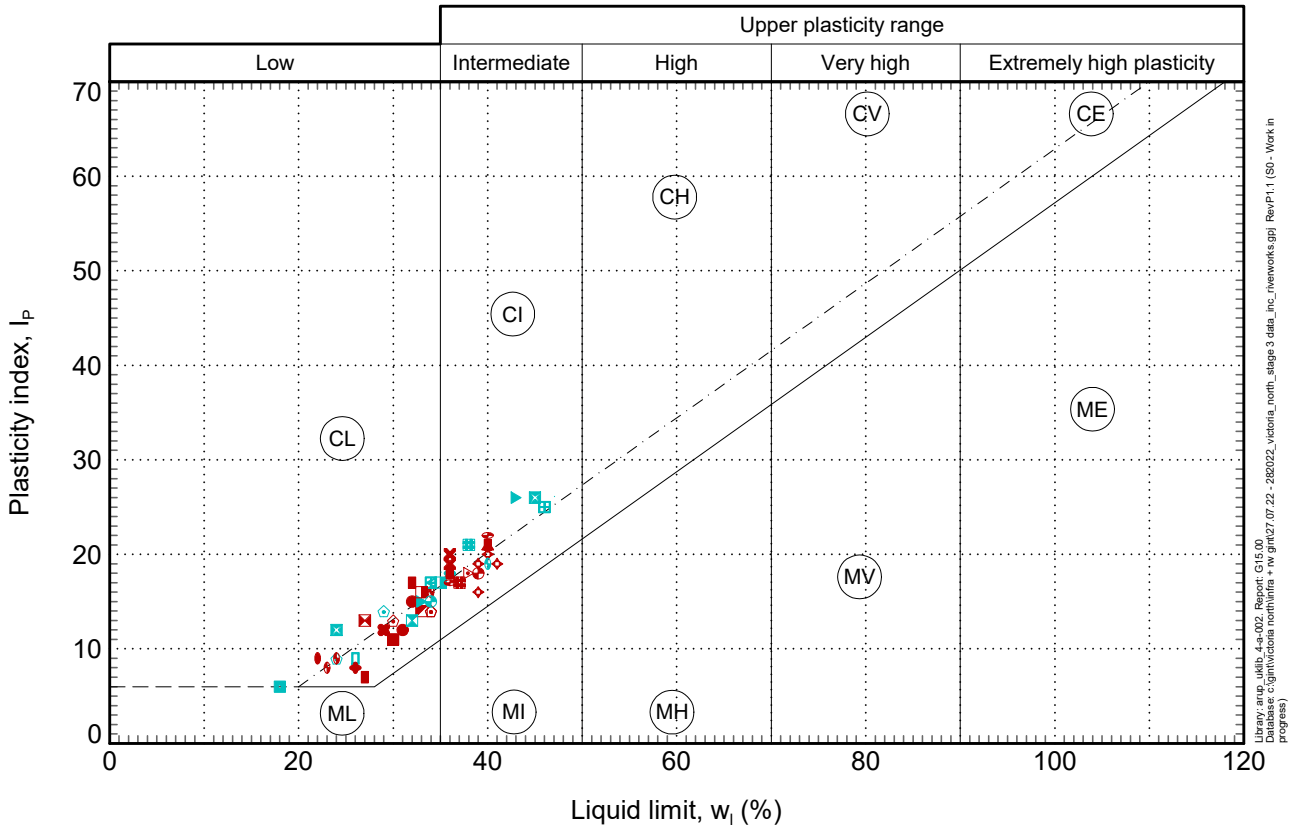
Figure Title
Particle size distribution
St Catherine's Wood

Job No
282022

Chart 1F

Library: arup_uklib_4-a-002, Report: G10A.00
Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



- Made Ground - Cohesive (MG-CO)
- Glacial Till Deposits - Cohesive (GTD - CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- BH304
- BH305
- BH311
- BH312
- BH324
- GEO_BH202
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_WS207
- GEO_WS210
- GEO_WS214
- 01_TP101
- 01_TP103
- 01_TP104
- GEO_TP201
- GEO_TP203
- GEO_TP207
- GEO_TP210
- GEO_TP211
- GEO_TP213
- GEO_TP214
- GEO_TP216
- GEO_TP217
- TP308
- TP310

ARUP

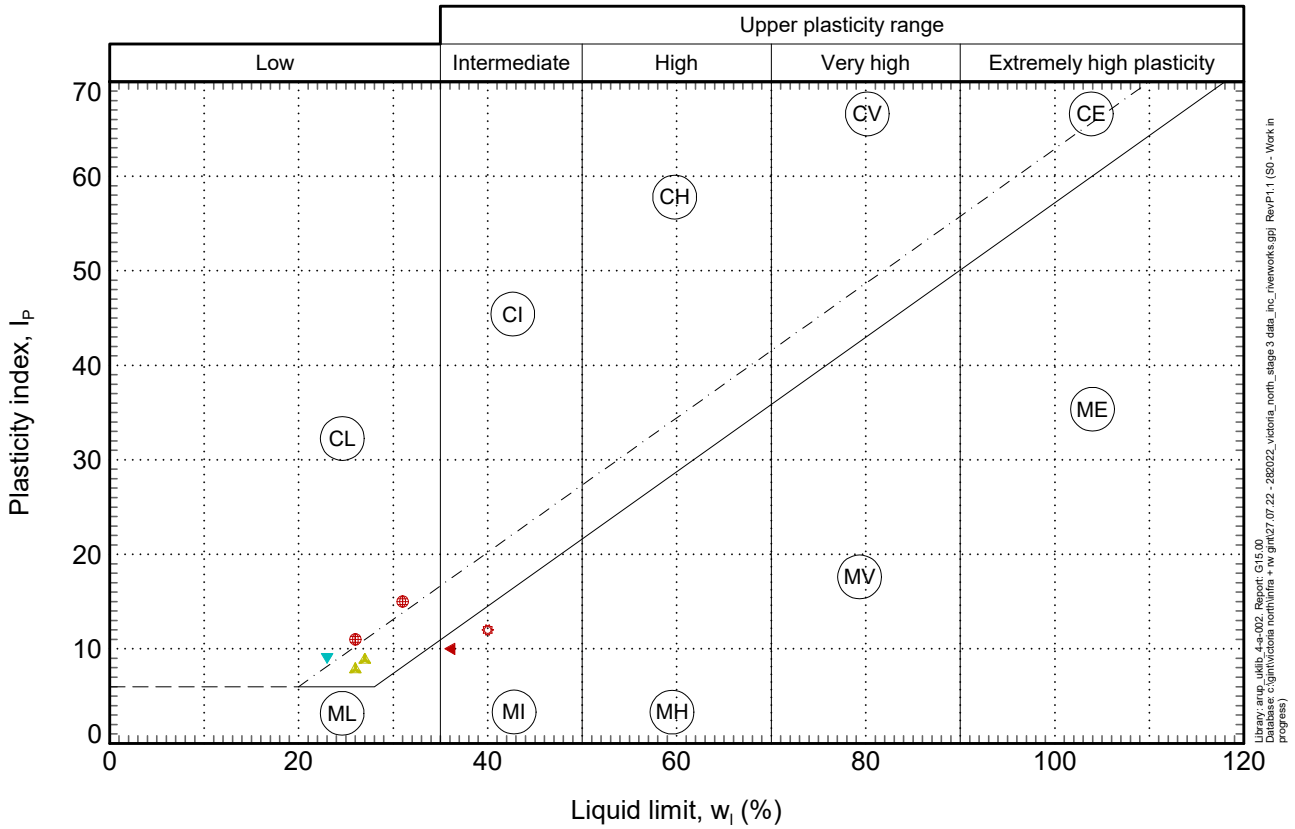
Job Title
Victoria North

Figure Title
Plasticity chart
Redbank Plateau

Job No
282022

Chart 2A

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



- Made Ground - Cohesive (MG-CO)
- Alluvium Cohesive (ALV-CO)
- Glacial Till Deposits - Cohesive (GTD - CO)
- 01_BH106
- 01_BH110
- BH306
- BH314
- BH325

ARUP

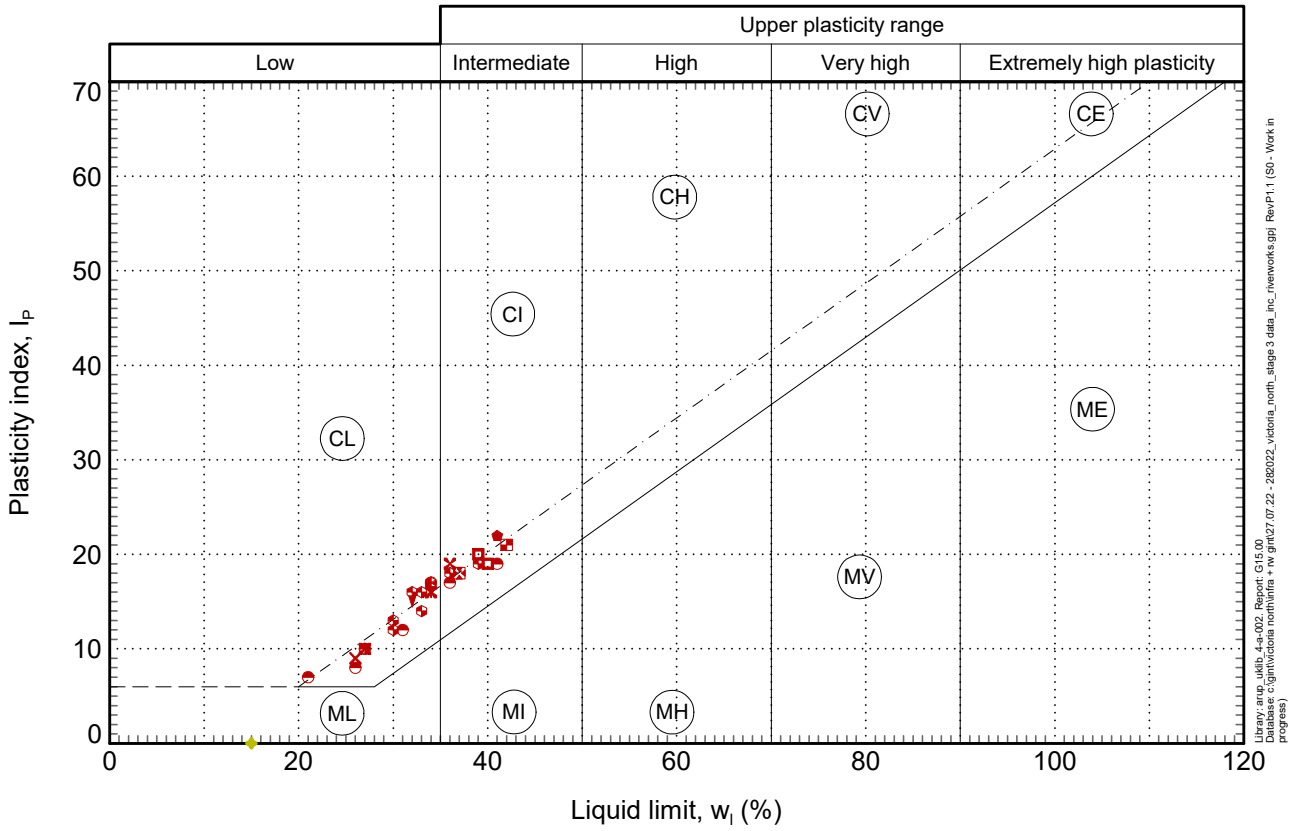
Job Title
Victoria North

Figure Title
Plasticity chart
Redbank Terrace

Job No
282022

Chart 2B

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



- Made Ground - Cohesive (MG-CO)
- Alluvium Cohesive (ALV-CO)
- BH301
- BH302
- BH315
- GEO_BH204
- BH309
- 01_WS102
- GEO_WS202
- GEO_WS203A
- GEO_TP204
- GEO_TP205
- GEO_TP206A
- TT303
- TT303A

ARUP

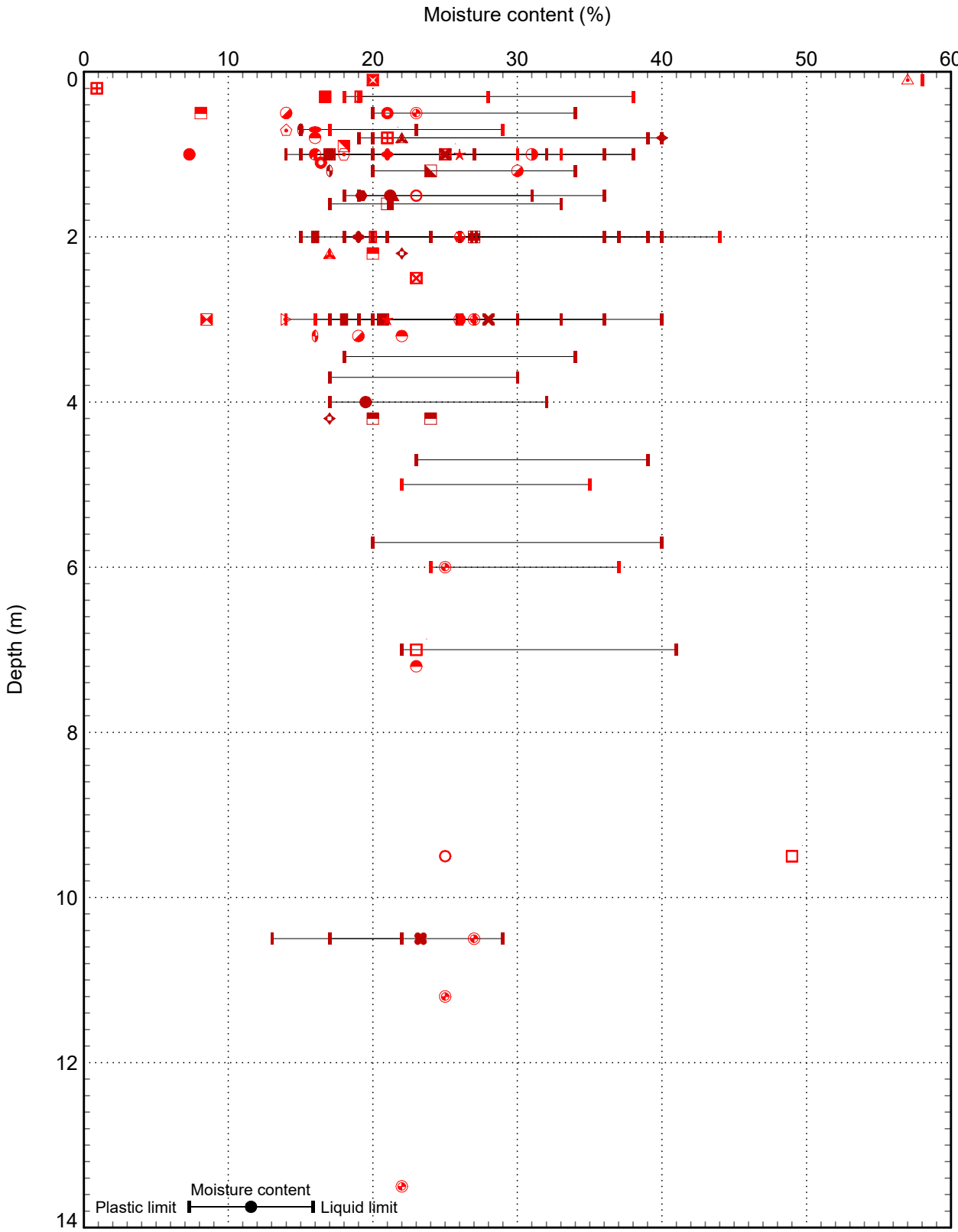
Job Title
Victoria North

Figure Title
Plasticity chart
St Catherine's wood

Job No
282022

Chart 2C

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 8-Aug-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- 01_BH105
- BH303
- BH304
- BH305
- BH311
- BH312
- BH324
- GEO_BH202
- GEO_BH206
- GEO_BH207
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH209
- GEO_BH210
- GEO_WS201
- GEO_WS205
- GEO_WS207
- GEO_WS210
- GEO_WS211
- GEO_WS212
- GEO_WS213
- GEO_WS213A
- GEO_WS214
- 01_TP112
- GEO_TP201
- GEO_TP202
- GEO_TP202C
- GEO_TP203
- GEO_TP207
- GEO_TP209
- GEO_TP210
- GEO_TP211
- GEO_TP212
- GEO_TP213
- GEO_TP214
- GEO_TP215
- GEO_TP216
- GEO_TP217
- GEO_TP218
- TP308
- TP310

ARUP

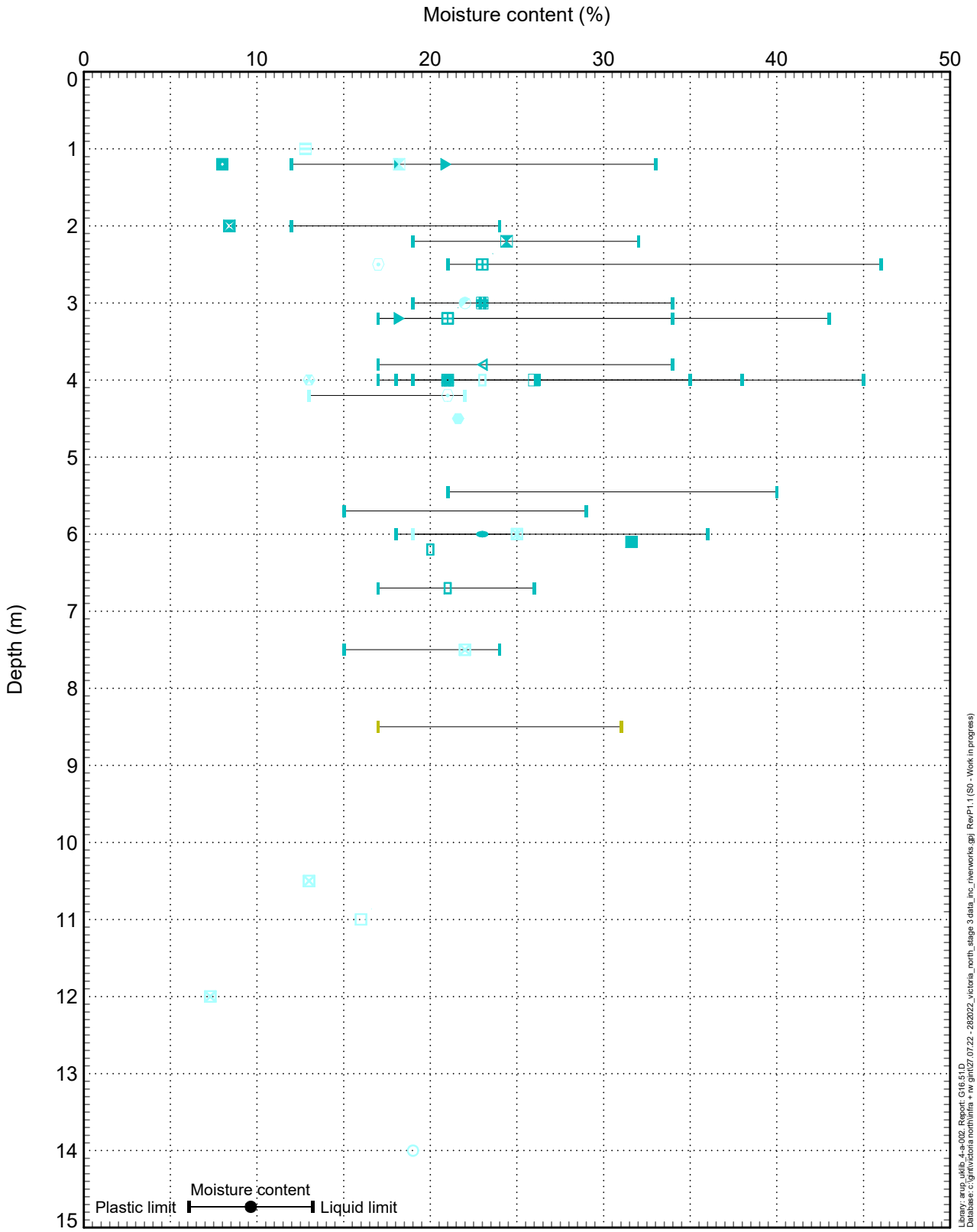
Job Title
Victoria North

Figure Title
Atterberg limits
Redbank Plateau

Job No
282022

Chart 2D

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



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Database: c:\gint\victoria northinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Alluvium Cohesive (ALV-CO)
- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH102
- 01_BH105
- BH303
- BH311
- BH312
- GEO_BH202
- GEO_BH206
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_BH210
- 01_TP101
- 01_TP103
- 01_TP104
- 01_TP108
- GEO_TP201
- GEO_TP209
- GEO_TP210
- GEO_TP211
- GEO_TP215
- TP310

ARUP

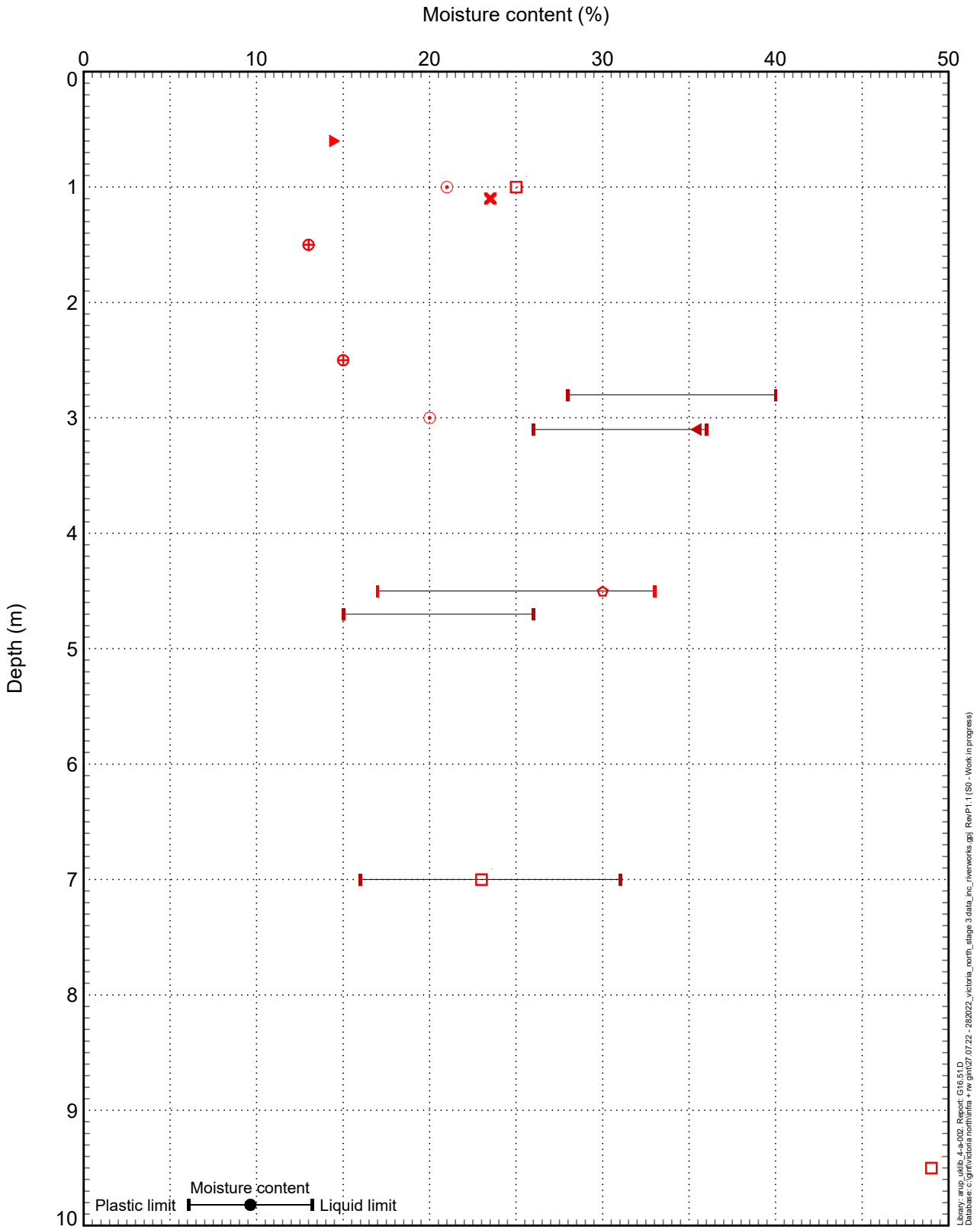
Job Title
Victoria North

Figure Title
Atterberg limits
Redbank Plateau

Job No
282022

Chart 2E

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



Made Ground - Granular (MG-G)
Made Ground - Cohesive (MG-CO)
01_BH110
01_BH112
BH314
BH325
GEO_BH211A
GEO_BH214A
GEO_BH212
01_TP121
GEO_TP219

ARUP

Job Title
Victoria North

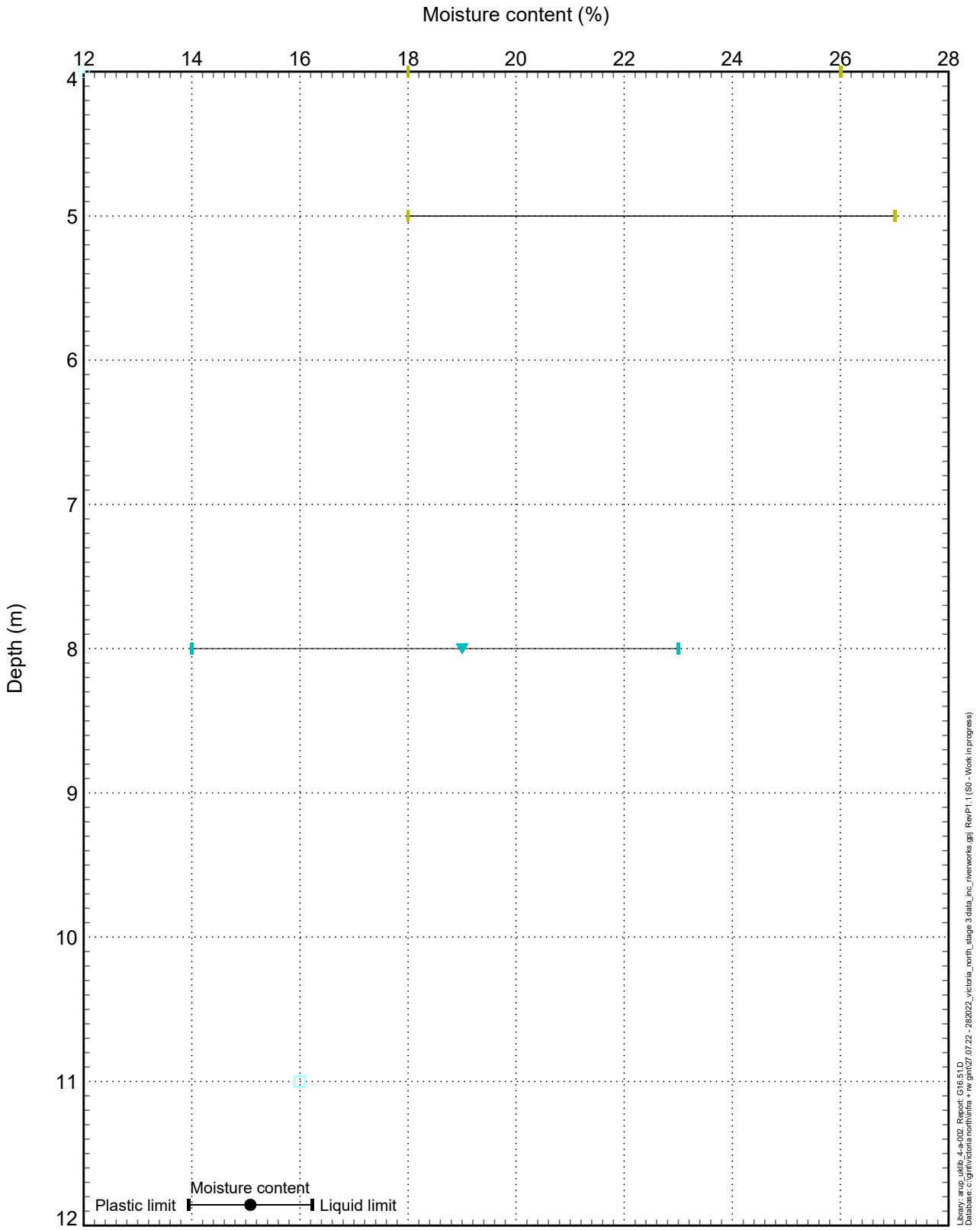
Figure Title
Atterberg limits
Redbank Terrace

Job No
282022

Chart 2F

Library: arup_uklib_4-a-002_Report: G16.51.D
Database: c:\gint\victoria northinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



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Database: c:\gint\victoria northinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Alluvium Cohesive (ALV-CO)
- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH106
- BH306
- GEO_BH211A
- GEO_TP219

ARUP

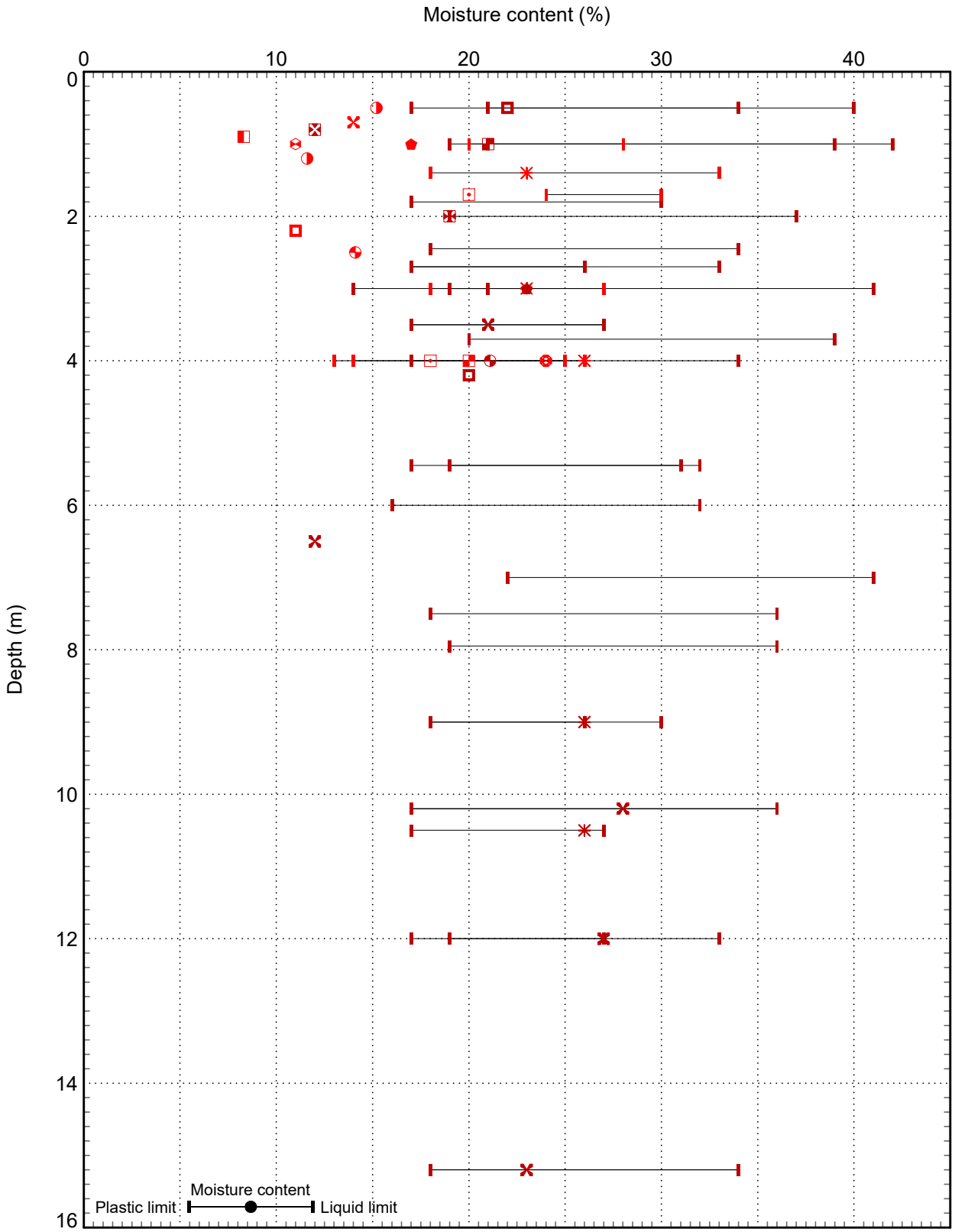
Job Title
Victoria North

Figure Title
Atterberg limits
Redbank terrace

Job No
282022

Chart 2G

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



Library: arup_uklib_4-a-002_Report: G16.51.D
Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- BH301
- BH302
- BH315
- GEO_BH204
- GEO_BH203
- BH309
- 01_WS101
- GEO_WS202
- GEO_WS203A
- GEO_WS204
- GEO_WS206
- 01_TP106
- GEO_TP204
- GEO_TP205
- GEO_TP206A
- GEO_TP208
- TT303
- TT303A

ARUP

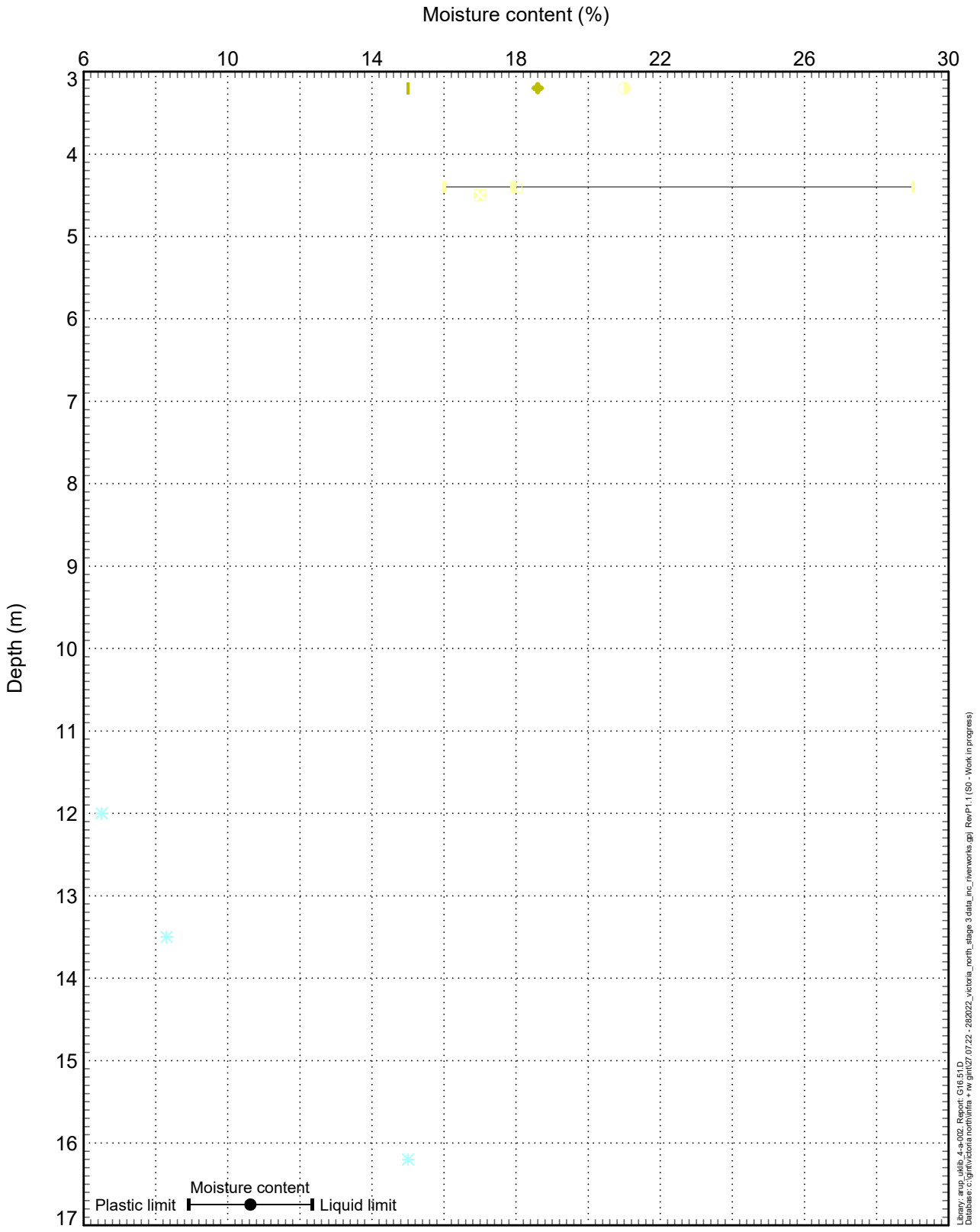
Job Title
Victoria North

Figure Title
Atterberg limits
St Catherine's wood

Job No
282022

Chart 2H

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



Alluvium Cohesive (ALV-CO)
Alluvium granular (ALV-G)
Glacial Till Deposits - Granular (GTD - G)
GEO_BH203
01_WS101
01_WS102
GEO_WS203A
GEO_WS206

ARUP

Job Title
Victoria North

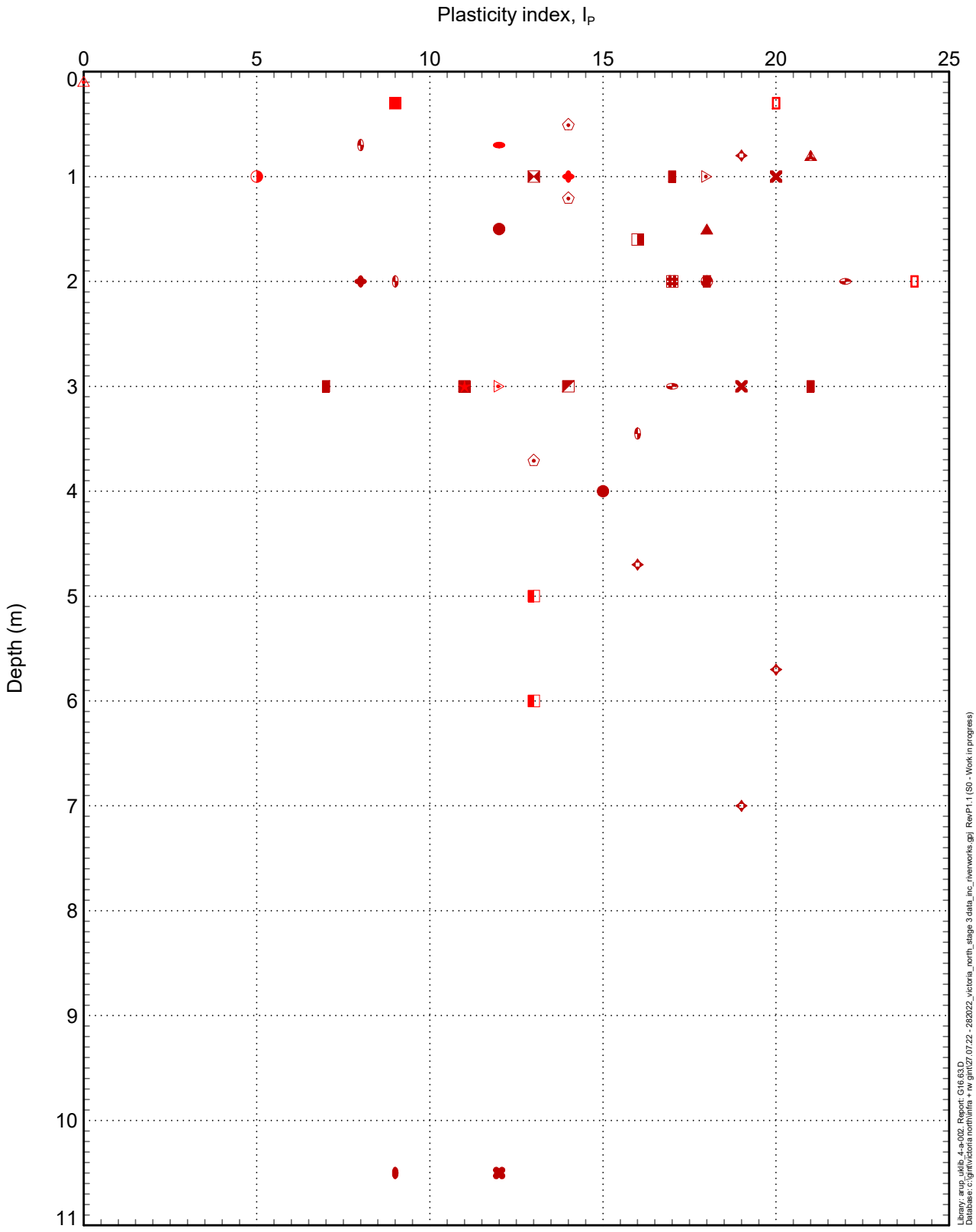
Figure Title
Atterberg limits
St catherine' wood

Job No
282022

Chart 2I

Library: arup_uklib_4-a-002_Report: G16.51.D
Database: c:\gint\victoria north\infra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- BH303
- BH304
- BH305
- BH311
- BH312
- BH324
- GEO_BH202
- GEO_BH209
- GEO_WS207
- GEO_WS210
- GEO_WS214
- GEO_TP202C
- GEO_TP203
- GEO_TP207
- GEO_TP210
- GEO_TP211
- GEO_TP212
- GEO_TP213
- GEO_TP214
- GEO_TP216
- GEO_TP217
- GEO_TP218
- TP308
- TP310

ARUP

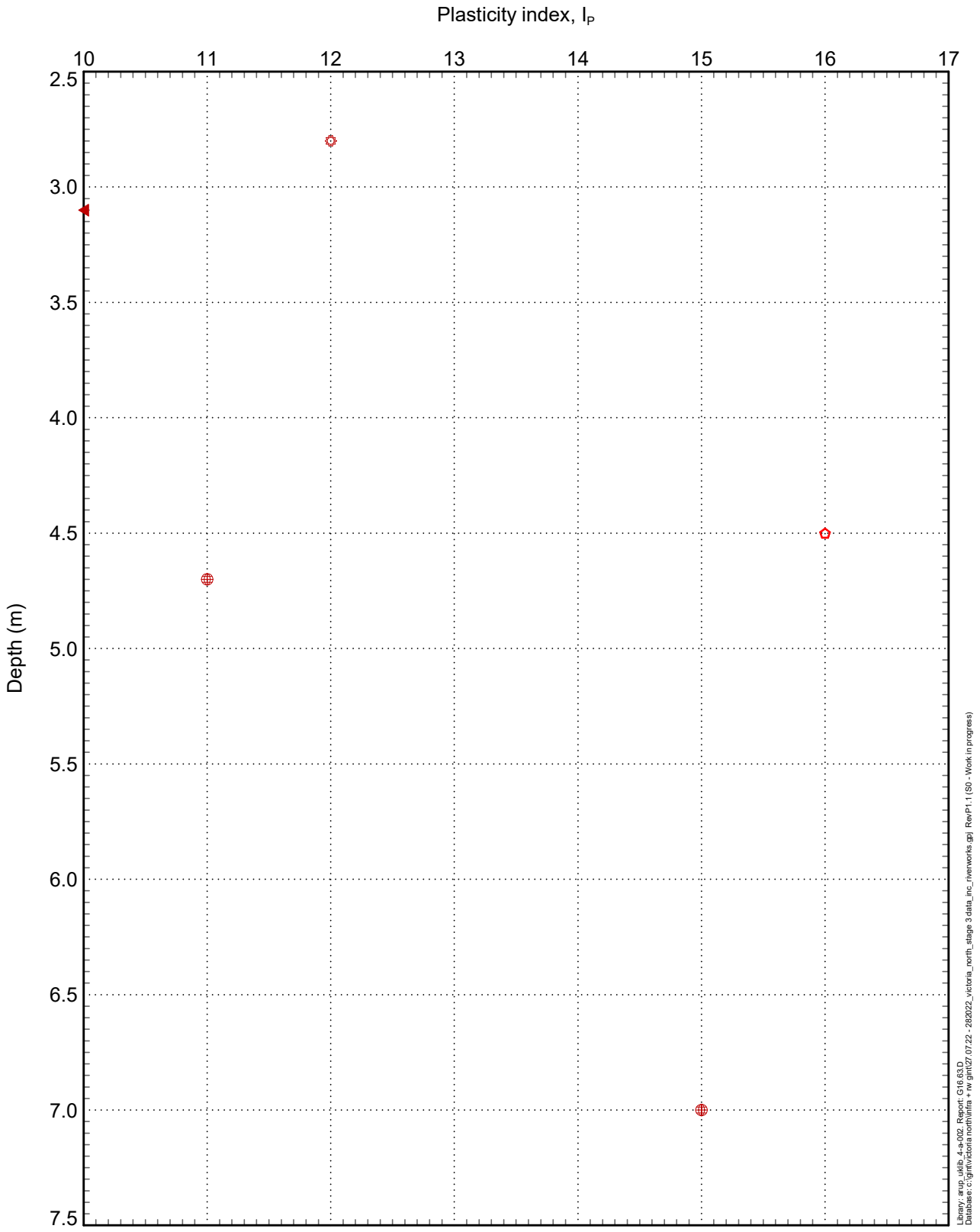
Job Title
Victoria North

Figure Title
Plasticity index
Redbank Plateau

Job No
282022

Chart 2J

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH110
- BH314
- BH325
- GEO_BH212

ARUP

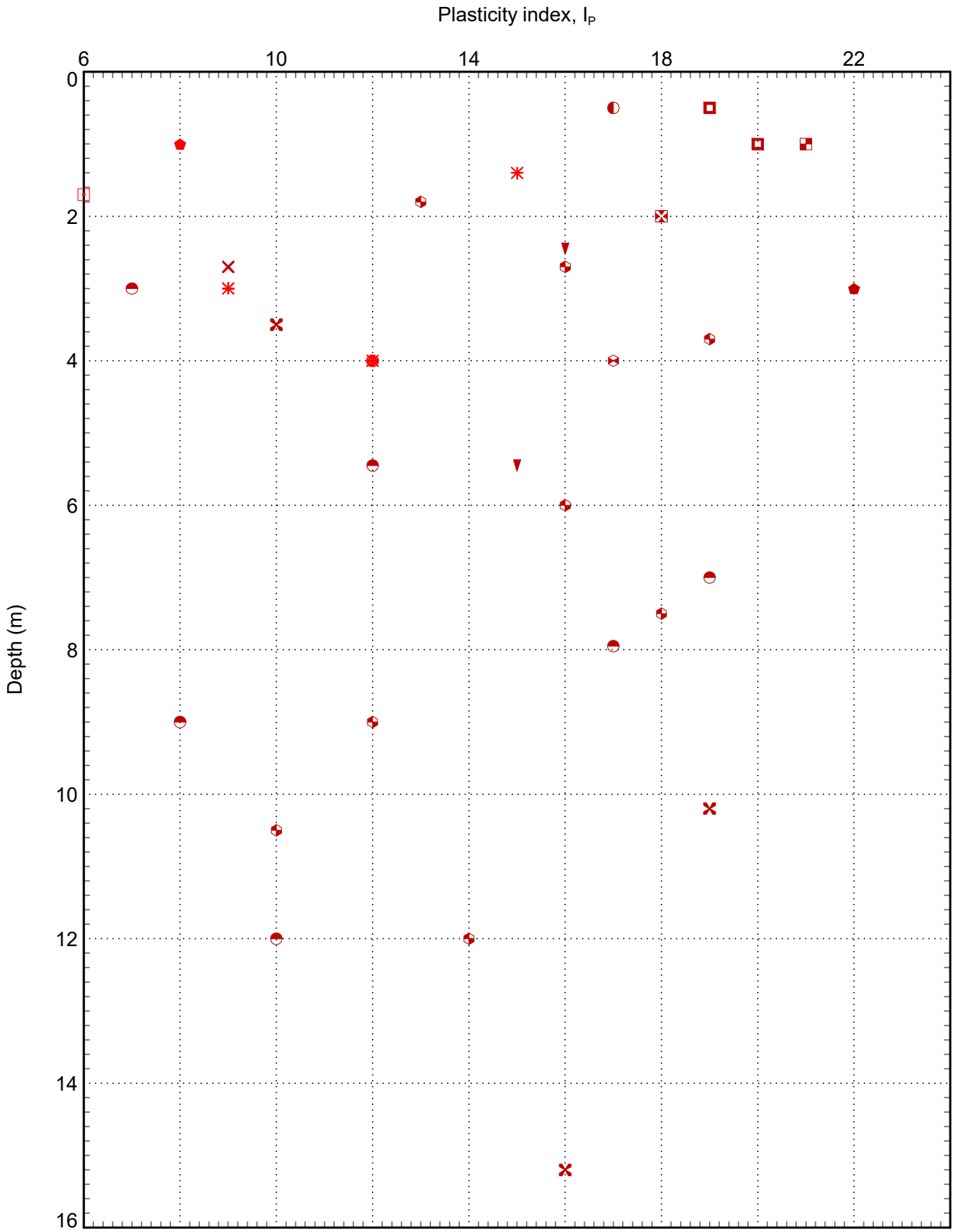
Job Title
Victoria North

Figure Title
Plasticity index
Redbank terrace

Job No
282022

Chart 2K

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



Made Ground - Granular (MG-G)
Made Ground - Cohesive (MG-CO)
BH301
BH302
BH315
GEO_BH204
GEO_BH203
BH309
GEO_WS202
GEO_WS203A
GEO_WS204
GEO_TP204
GEO_TP205
GEO_TP206A
GEO_TP208
TT303
TT303A

ARUP

Job Title
Victoria North

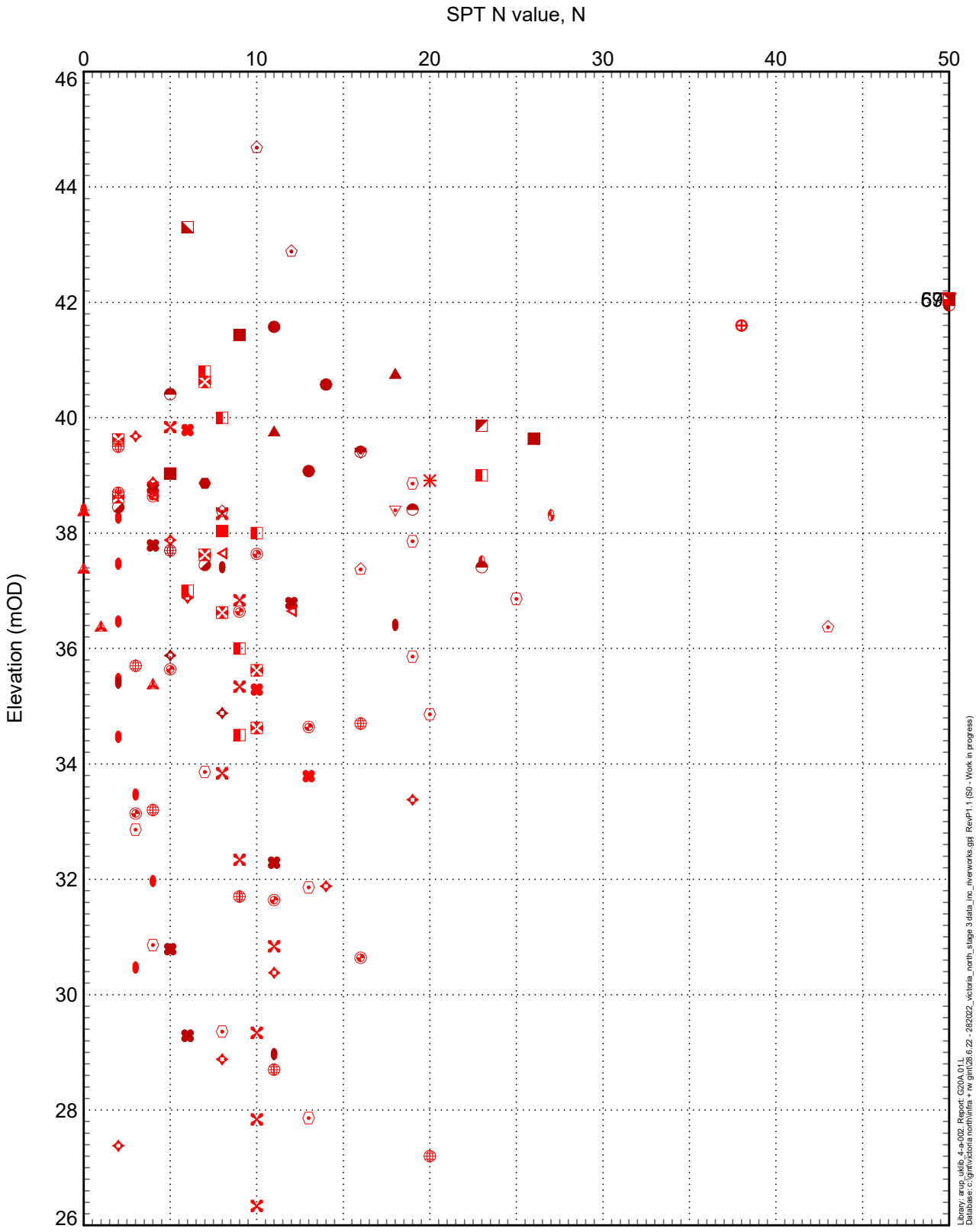
Figure Title
Plasticity index
St Catherine's wood

Job No
282022

Chart 2L

Library: arup_uklib_4-a-002. Report: G16.63.D
Database: c:\gint\victoria northinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 28-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- 01_BH105
- BH303
- BH304
- BH305
- BH311
- BH312
- BH313
- BH324
- GEO_BH202
- GEO_BH207
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH209
- GEO_BH210
- GEO_WS201
- GEO_WS201A
- GEO_WS201B
- GEO_WS205
- GEO_WS207
- GEO_WS210
- GEO_WS211
- GEO_WS212
- GEO_WS213A
- GEO_WS214

ARUP

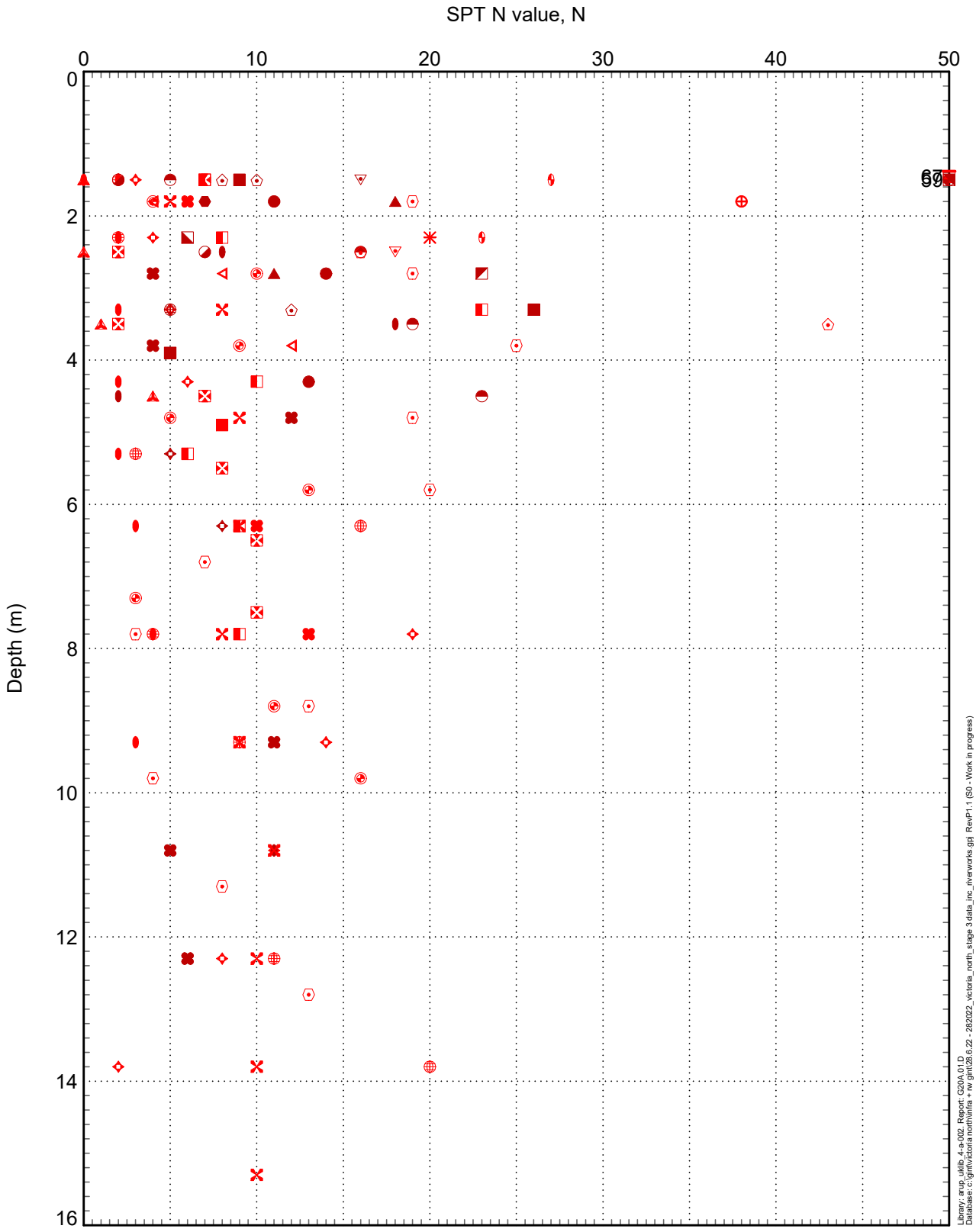
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Plateau

Job No
282022

Chart 3A

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- 01_BH105
- BH303
- BH304
- BH305
- BH311
- BH312
- BH313
- BH324
- GEO_BH202
- GEO_BH207
- GEO_BH208
- GEO_BH211A
- GEO_BH201
- GEO_BH209
- GEO_BH210
- GEO_WS201
- GEO_WS201A
- GEO_WS201B
- GEO_WS205
- GEO_WS207
- GEO_WS210
- GEO_WS211
- GEO_WS212
- GEO_WS213A
- GEO_WS214

ARUP

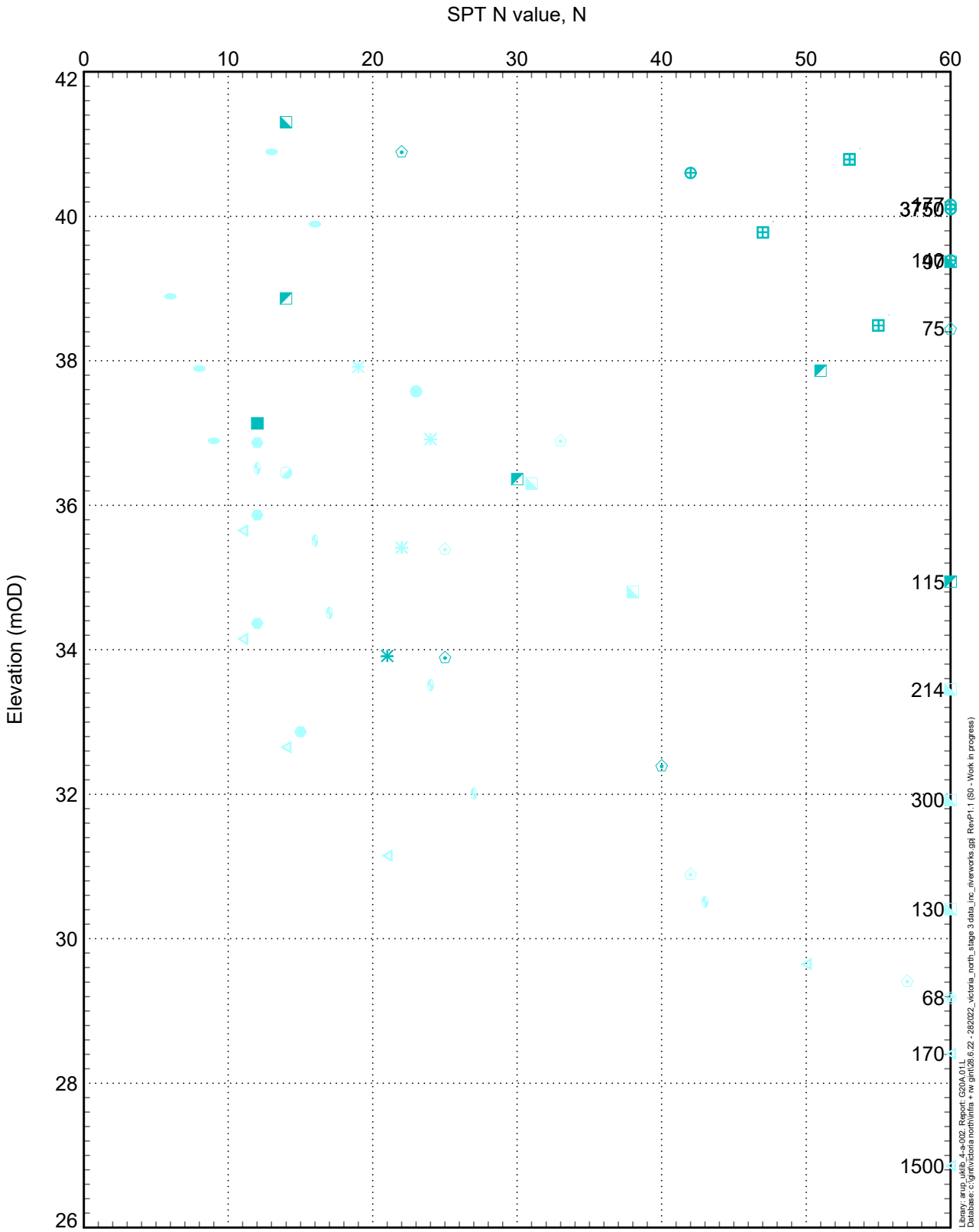
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Plateau

Job No
282022

Chart 3B

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH101
- 01_BH102
- 01_BH105
- BH311
- BH312
- BH313
- GEO_BH202
- GEO_BH206
- GEO_BH211A
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_BH210
- GEO_WS213A

ARUP

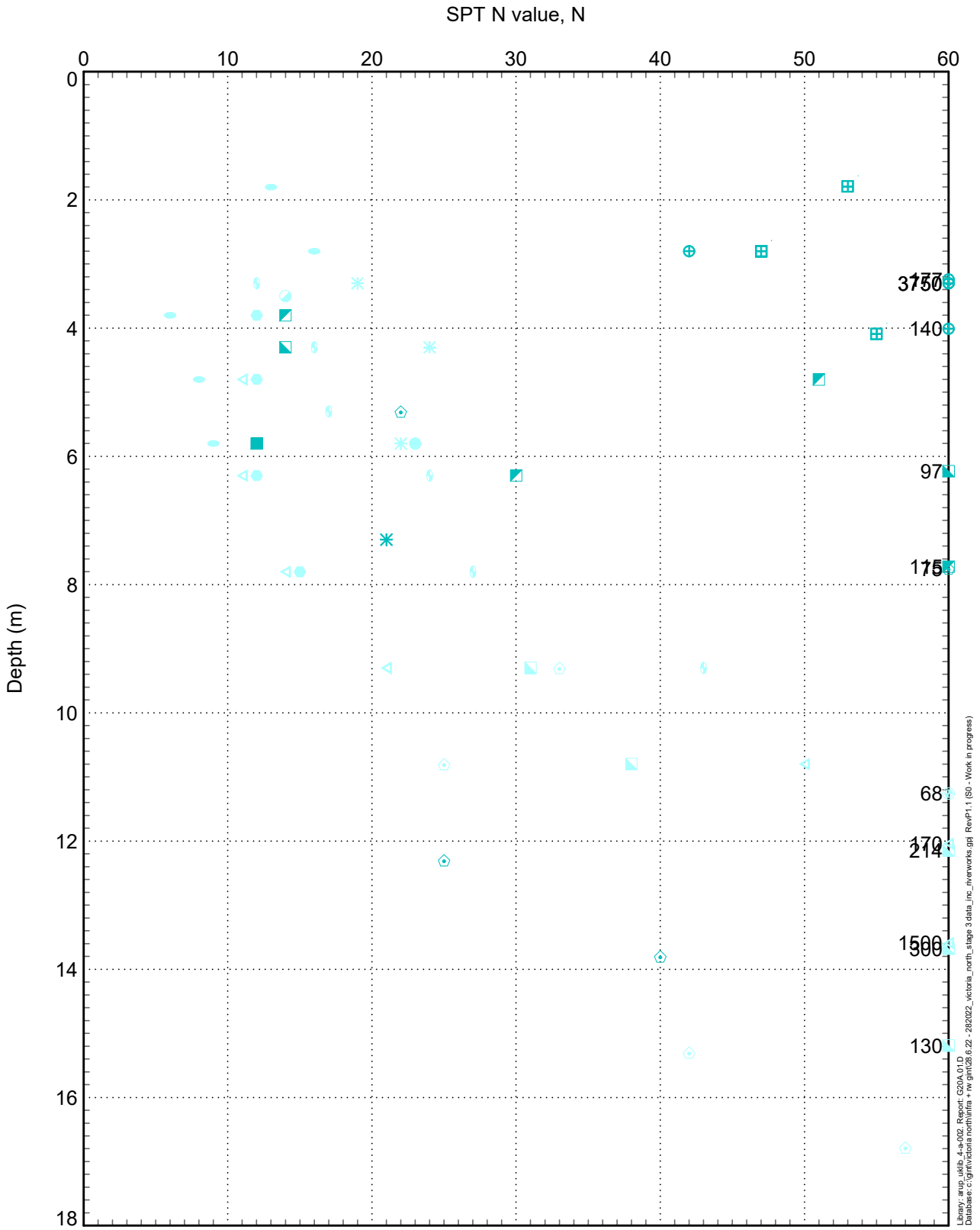
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Plateau

Job No
282022

Chart 3C

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH101
- 01_BH102
- 01_BH105
- BH311
- BH312
- BH313
- GEO_BH202
- GEO_BH206
- GEO_BH211A
- GEO_BH201
- GEO_BH205
- GEO_BH209
- GEO_BH210
- GEO_WS213A

ARUP

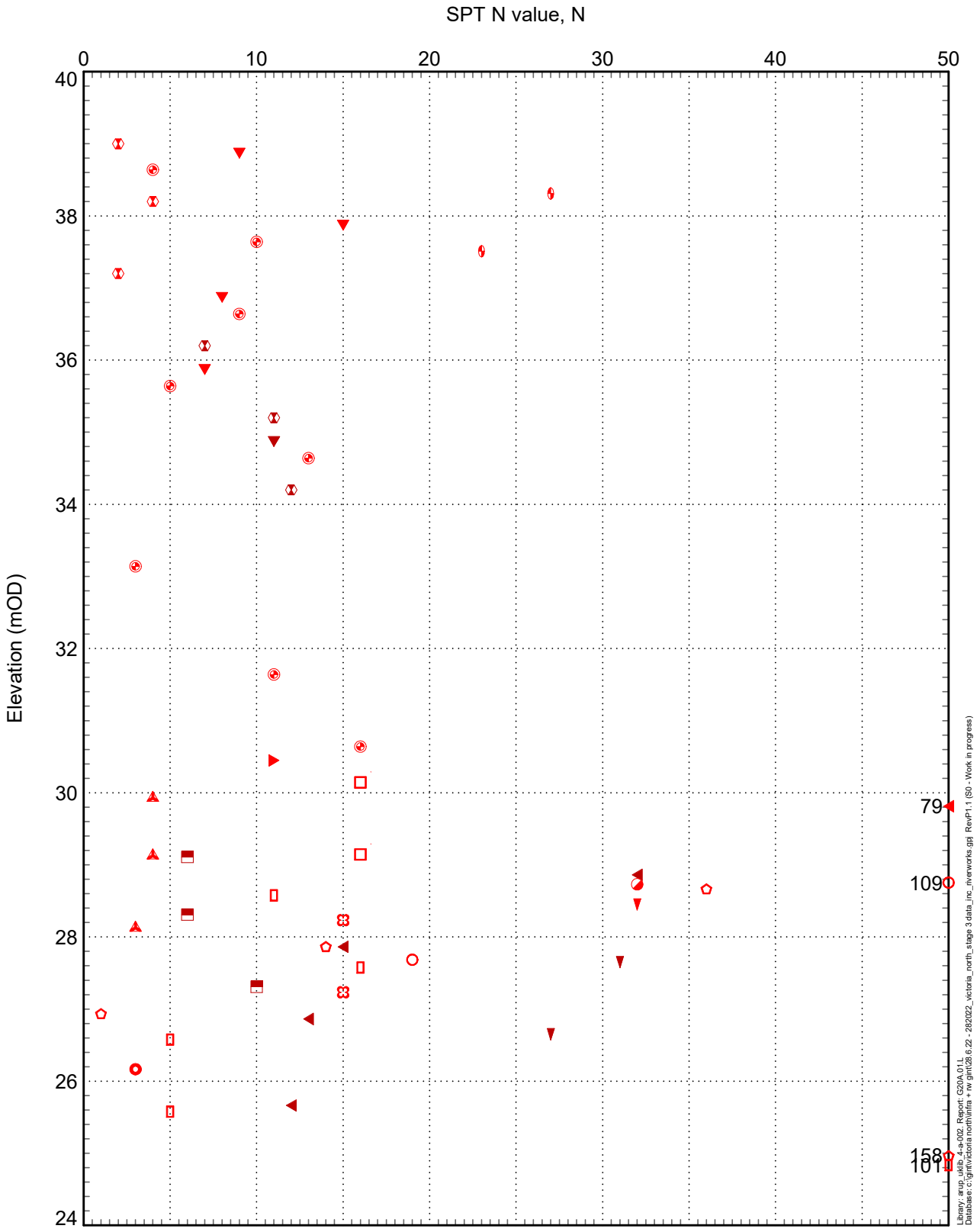
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Plateau

Job No
282022

Chart 3D

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH106
- 01_BH110
- 01_BH112
- BH306
- BH307
- BH308
- BH313
- BH314
- BH325
- GEO_BH211A
- GEO_BH212A
- GEO_BH213
- GEO_BH214A
- GEO_BH212
- RE15
- RE13A

ARUP

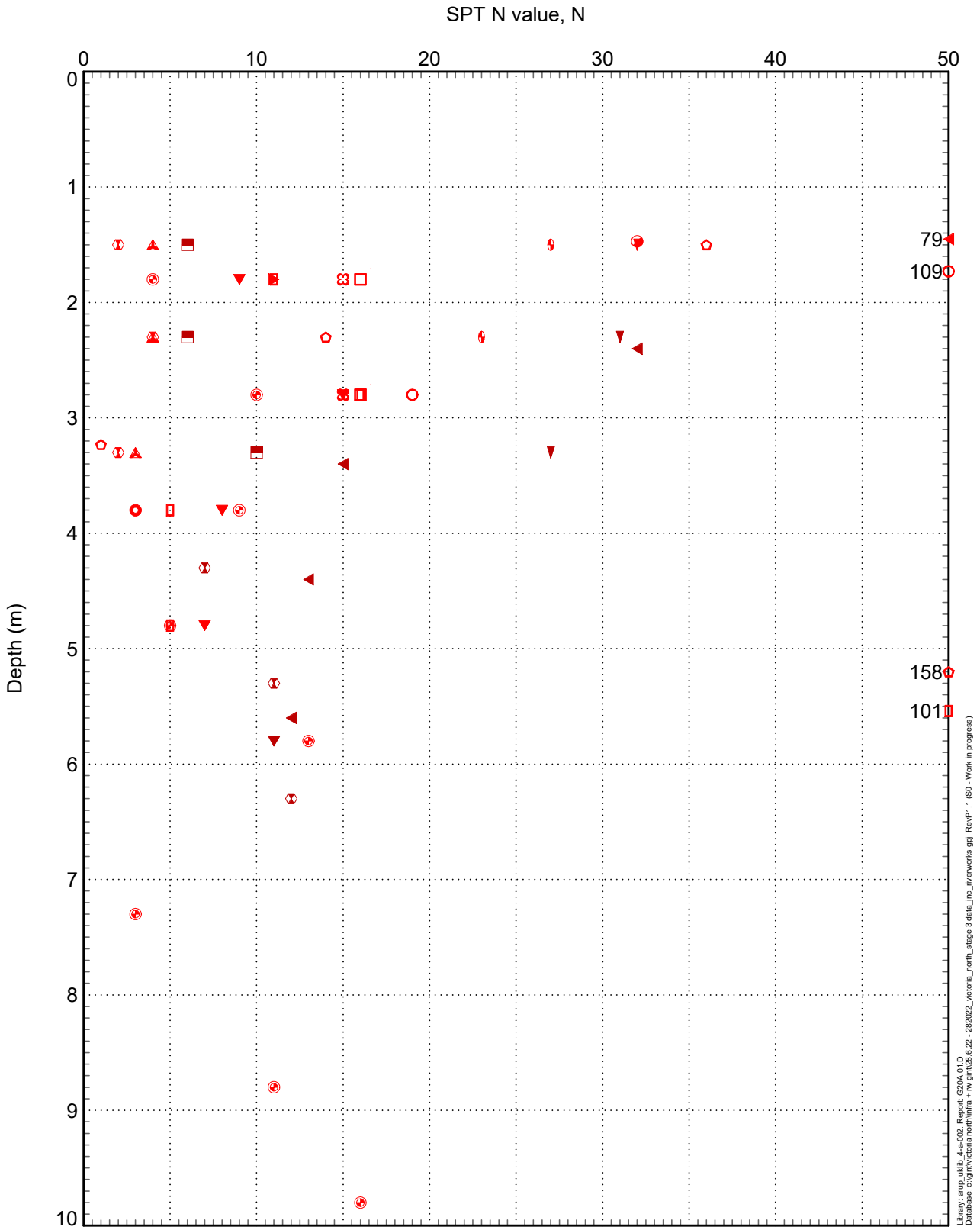
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Terrace

Job No
282022

Chart 3E

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- 01_BH106
- 01_BH110
- 01_BH112
- BH306
- BH307
- BH308
- BH313
- BH314
- BH325
- GEO_BH211A
- GEO_BH212A
- GEO_BH213
- GEO_BH214A
- GEO_BH212
- RE15
- RE13A

ARUP

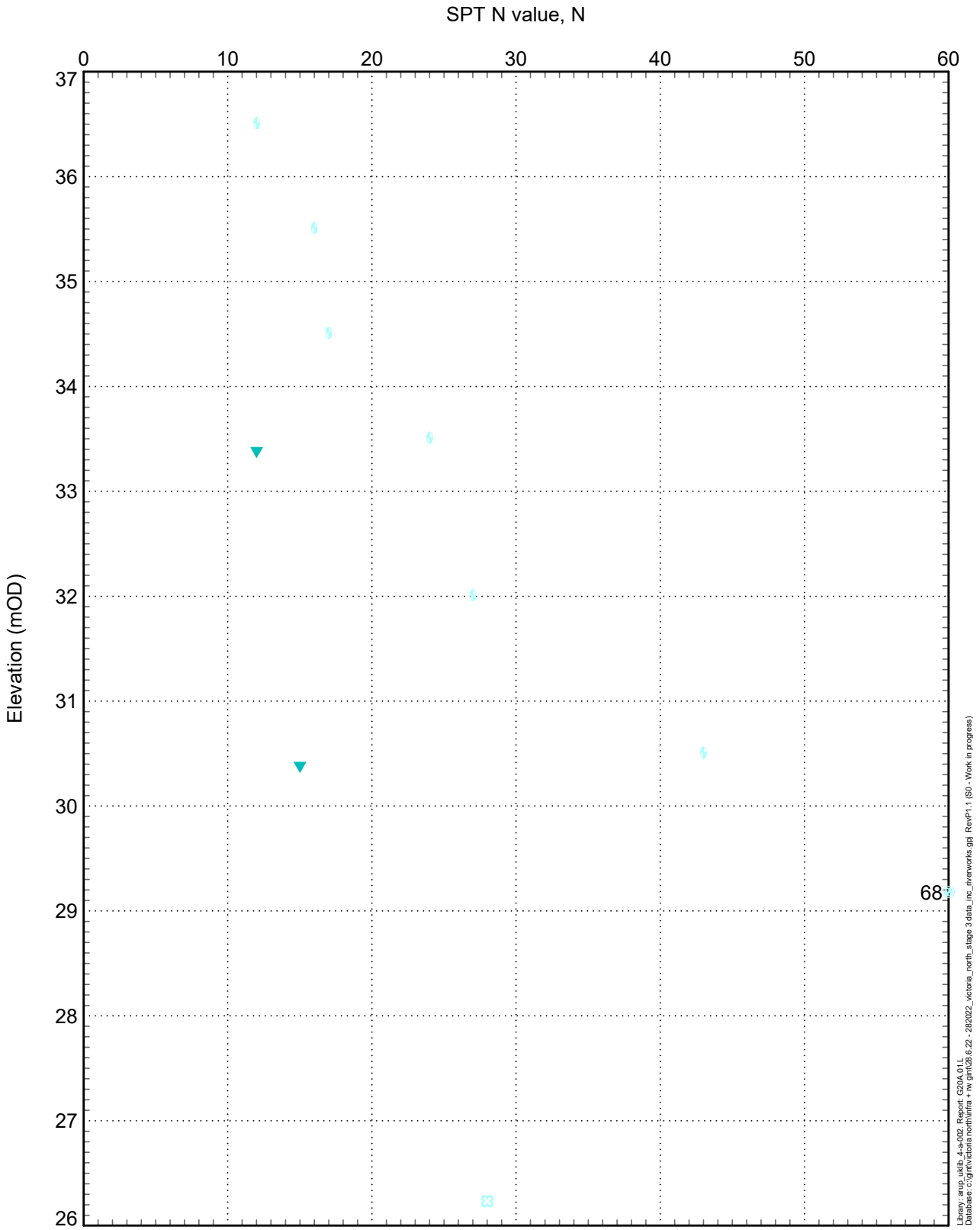
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Terrace

Job No
282022

Chart 3F

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



Glacial Till Deposits - Cohesive (GTD - CO)
Glacial Till Deposits - Granular (GTD - G)
01_BH106
BH313
GEO_BH211A
GEO_BH214A

ARUP

Job Title
Victoria North

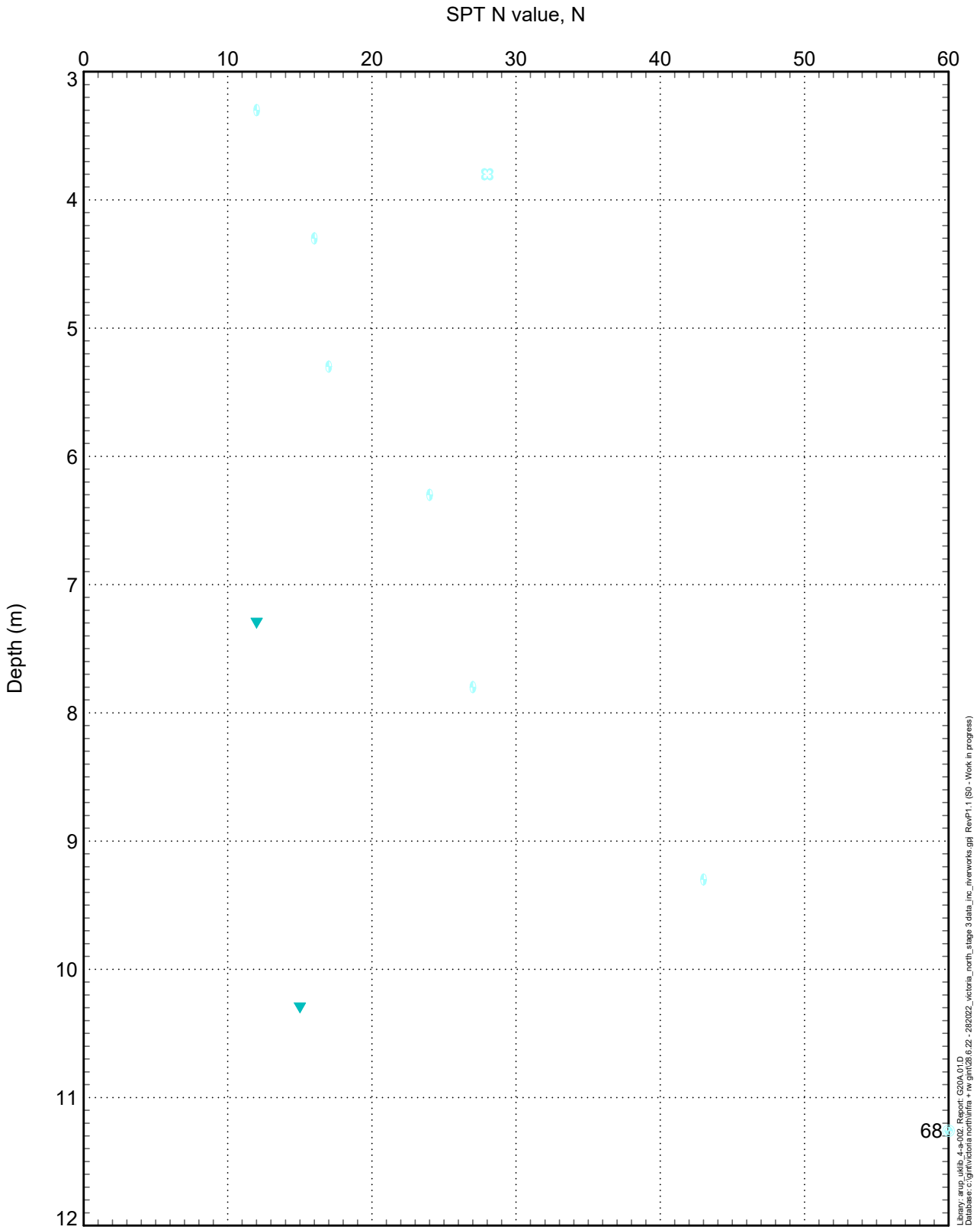
Figure Title
Standard penetration tests
Redbank Terrace

Job No
282022

Chart 3G

Library: arup_uklib_4-a-002. Report: C20A.01L
Database: c:\gint\victoria north\infra + rw gint\26.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



Library: arup_uklib_4-x-002_Report_C20A.01.D
Database: c:\gint\victoria northinfra + rw gint\26.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- Glacial Till Deposits - Cohesive (GTD - CO)
- Glacial Till Deposits - Granular (GTD - G)
- 01_BH106
- BH313
- GEO_BH211A
- GEO_BH214A

ARUP

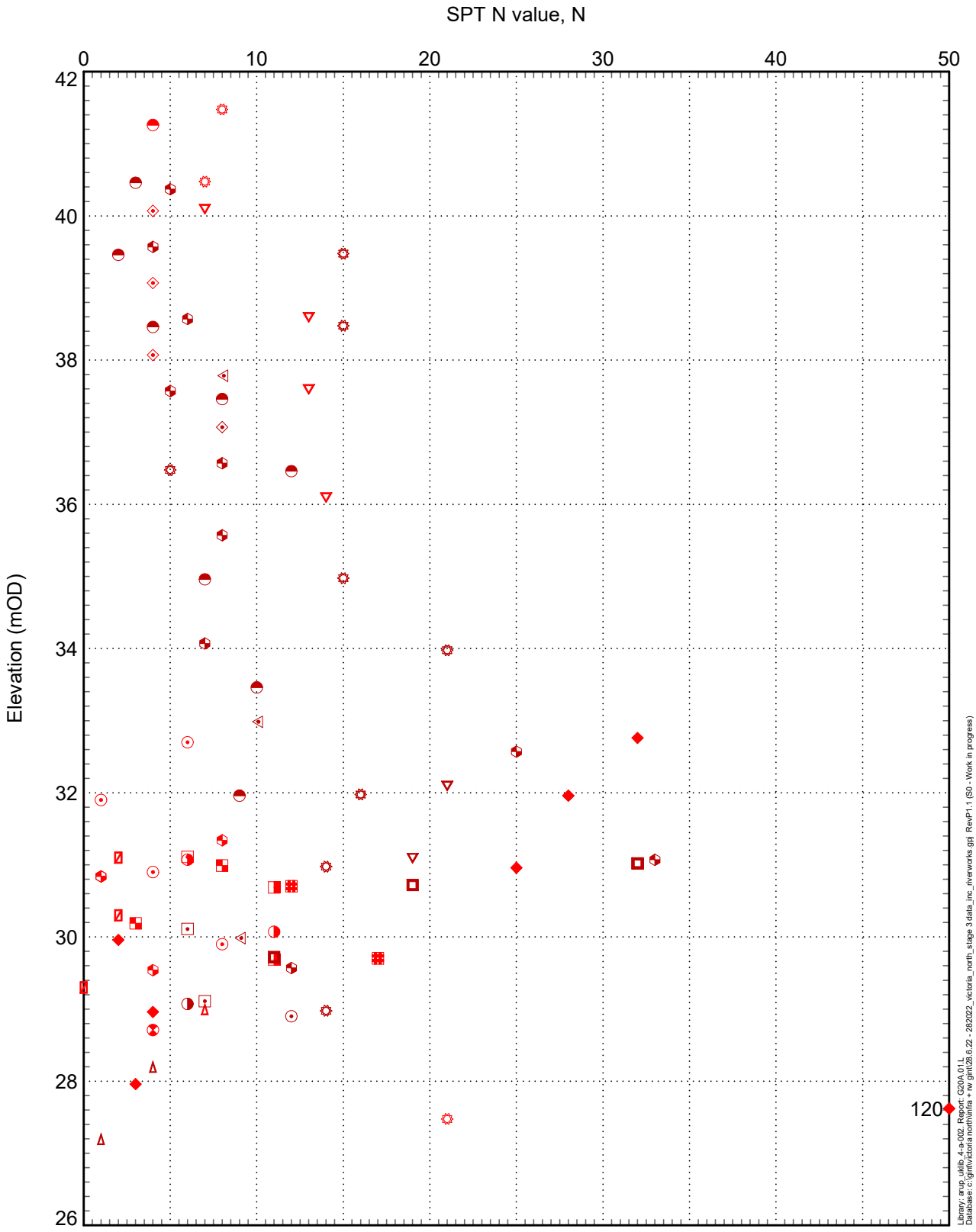
Job Title
Victoria North

Figure Title
Standard penetration tests
Redbank Terrace

Job No
282022

Chart 3H

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



- Made Ground - Granular (MG-G)
- Made Ground - Cohesive (MG-CO)
- BH301
- BH302
- BH315
- GEO_BH204
- GEO_BH203
- BH309
- BH310
- 01_WS101
- 01_WS102
- 01_WS103
- BH321
- BH322
- BH323
- GEO_WS202
- GEO_WS203A
- GEO_WS204
- GEO_WS206
- BH320

ARUP

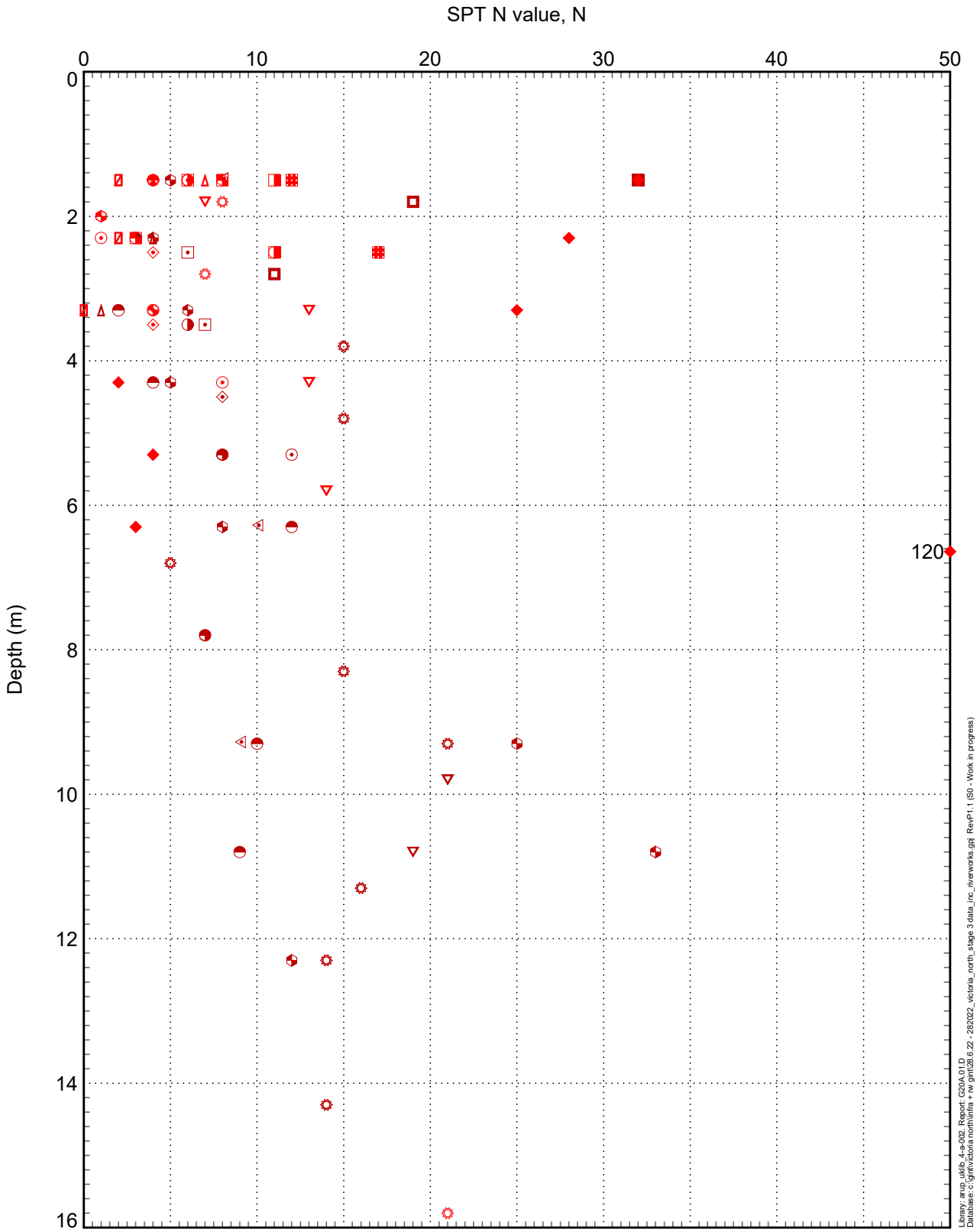
Job Title
Victoria North

Figure Title
Standard penetration tests
St Catherines wood

Job No
282022

Chart 3I

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



Made Ground - Granular (MG-G)
Made Ground - Cohesive (MG-CO)
BH301
BH302
BH315
GEO_BH204
GEO_BH203
BH309
BH310
01_WS101
01_WS102
01_WS103
BH321
BH322
BH323
GEO_WS202
GEO_WS203A
GEO_WS204
GEO_WS206
BH320

ARUP

Job Title
Victoria North

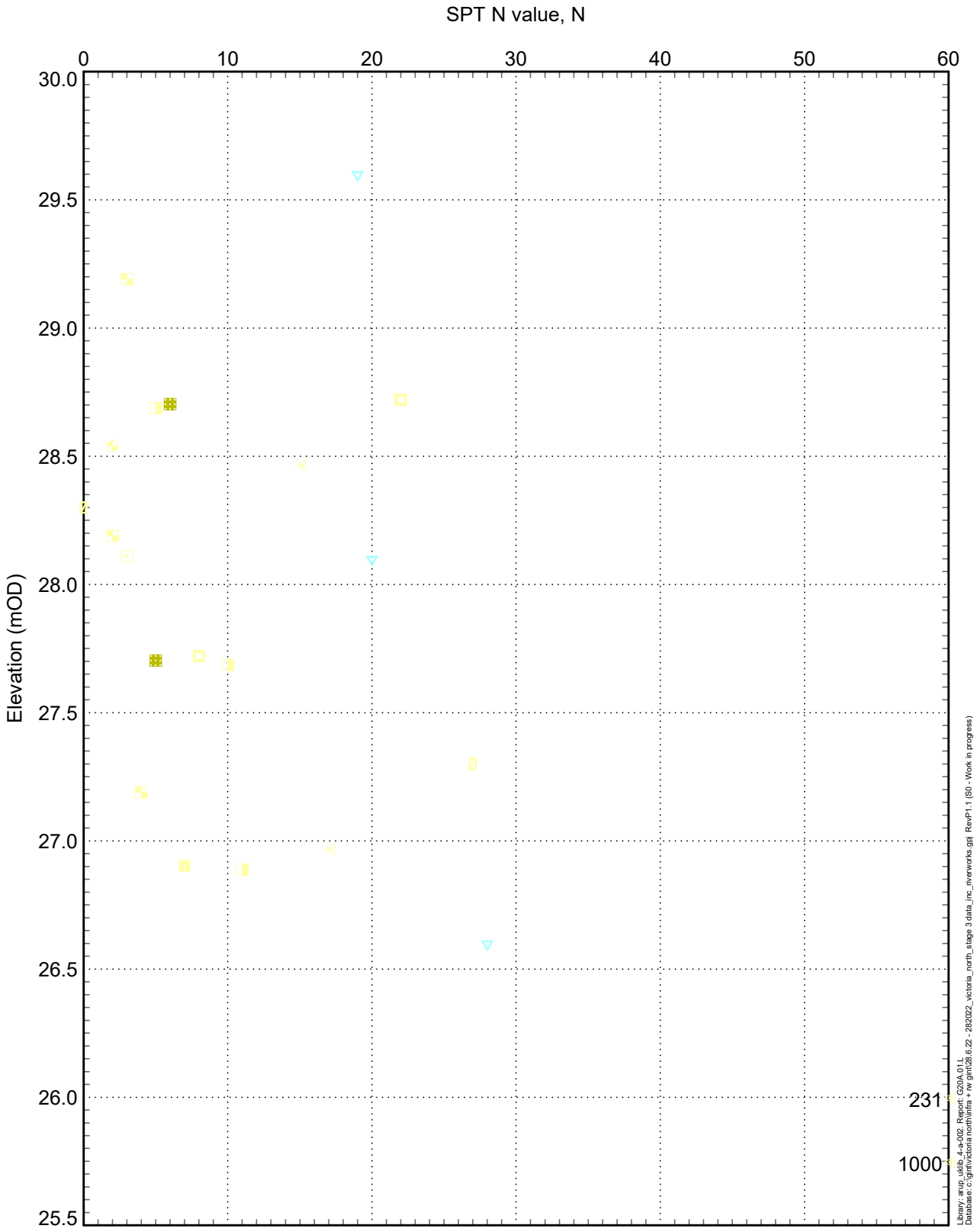
Figure Title
Standard penetration tests
St Catherine's wood

Job No
282022

Chart 3J

Library: arup_uklib_4-a-002. Report: C20A.01.D
Database: c:\gint\victoria northinfra + rw gint\26.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



Alluvium Cohesive (ALV-CO)
Alluvium granular (ALV-G)
Glacial Till Deposits - Granular (GTD - G)
BH315
GEO_BH203
BH310
01_WS101
01_WS102
BH322
GEO_WS203A
GEO_WS204
GEO_WS206

ARUP

Job Title
Victoria North

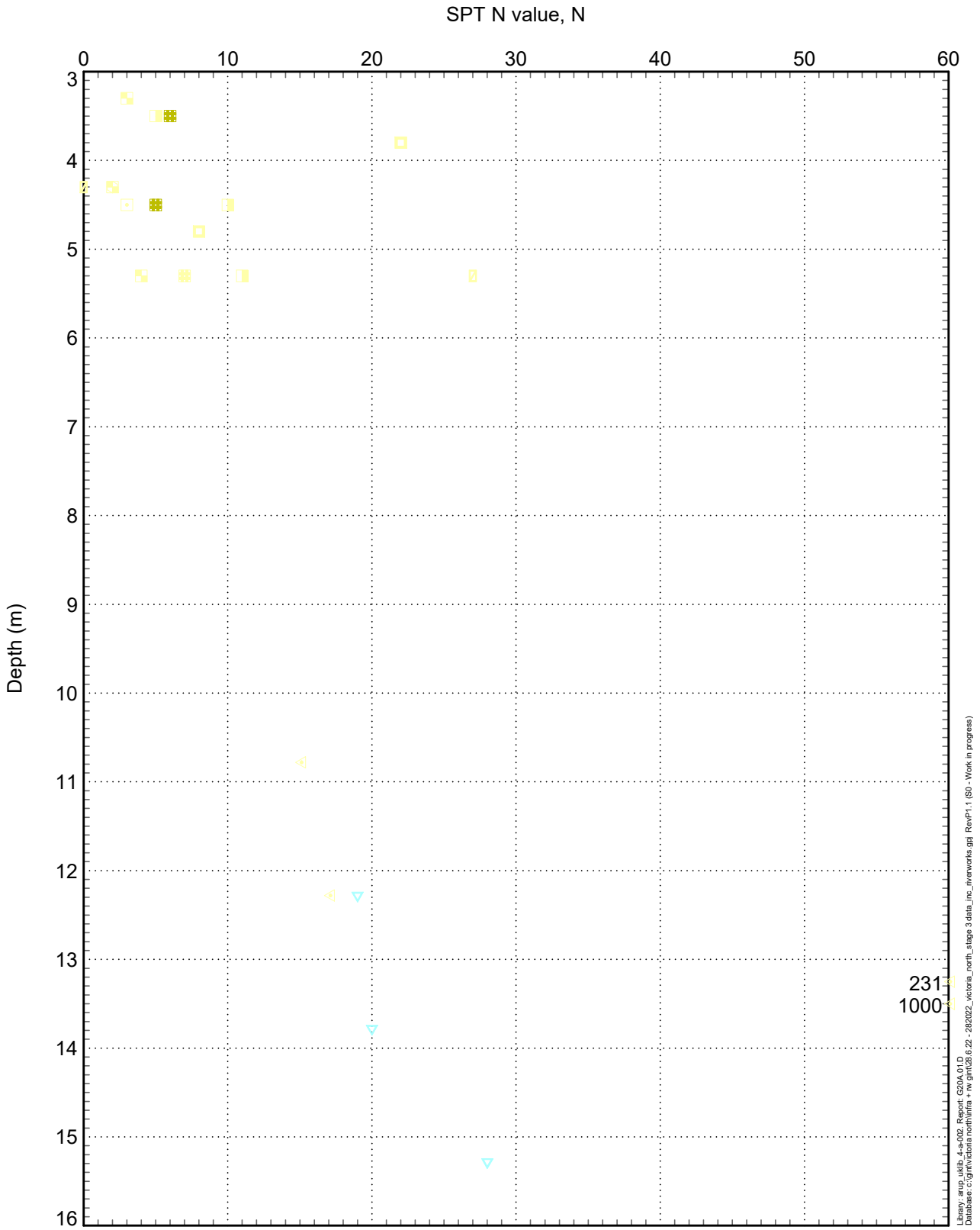
Figure Title
Standard penetration tests
St Catherine's Wood

Job No
282022

Chart 3K

Library: arup_uklib_4-a-002. Report: G20A.01L
Database: c:\gint\victoria north\infra + rw gint\26.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



- Alluvium Cohesive (ALV-CO)
- Alluvium granular (ALV-G)
- Glacial Till Deposits - Granular (GTD - G)
- BH315
- GEO_BH203
- BH310
- 01_WS101
- 01_WS102
- BH322
- GEO_WS203A
- GEO_WS204
- GEO_WS206

ARUP

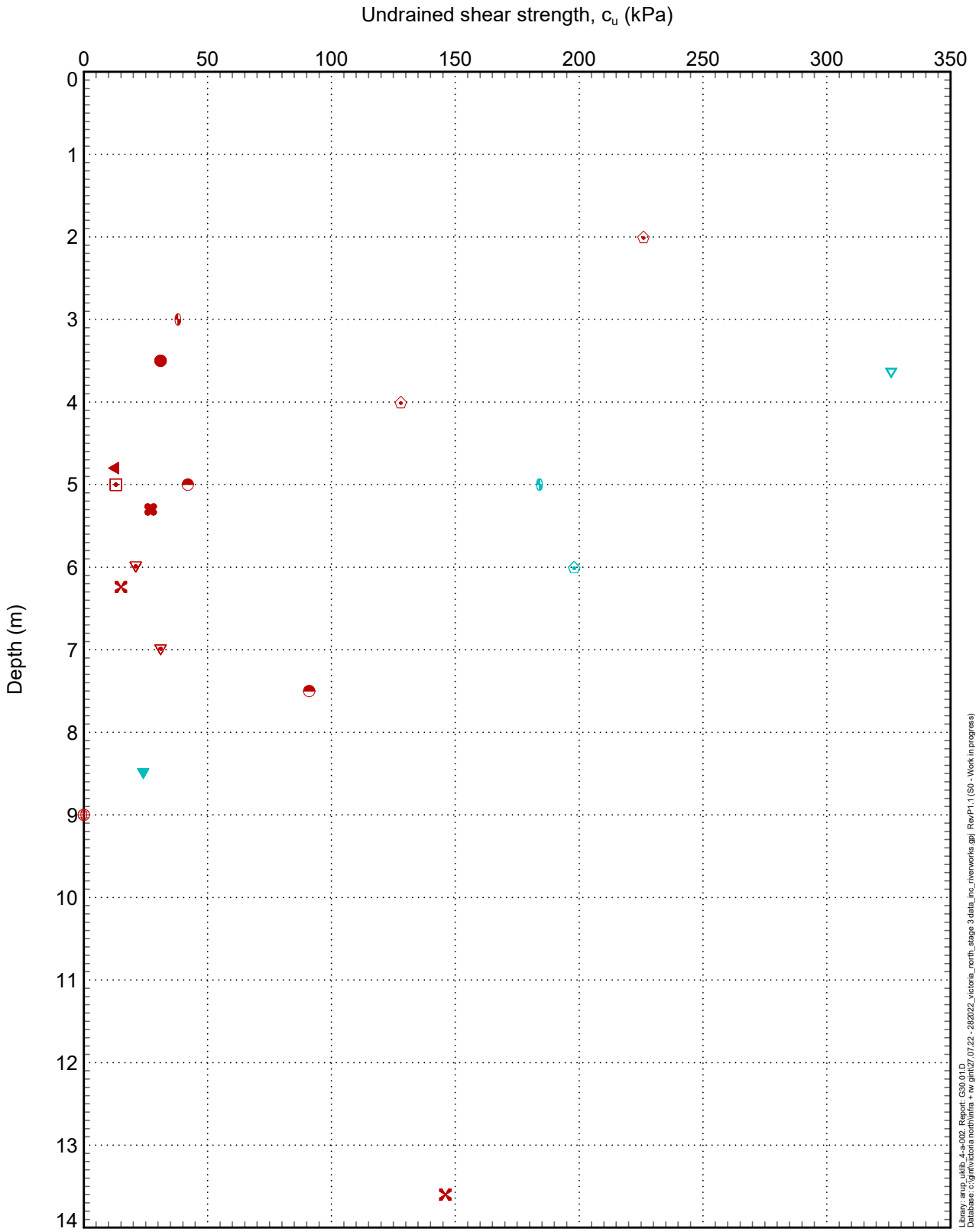
Job Title
Victoria North

Figure Title
Standard penetration tests
St Catherine's Wood

Job No
282022

Chart 3L

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jul-22



- Made Ground - Cohesive (MG-CO)
- Glacial Till Deposits - Cohesive (GTD - CO)
- 01_BH101
- 01_BH104
- 01_BH106
- 01_BH110
- BH301B
- BH302
- BH304A
- BH311
- BH312
- BH314
- GEO_BH204
- GEO_BH215

ARUP

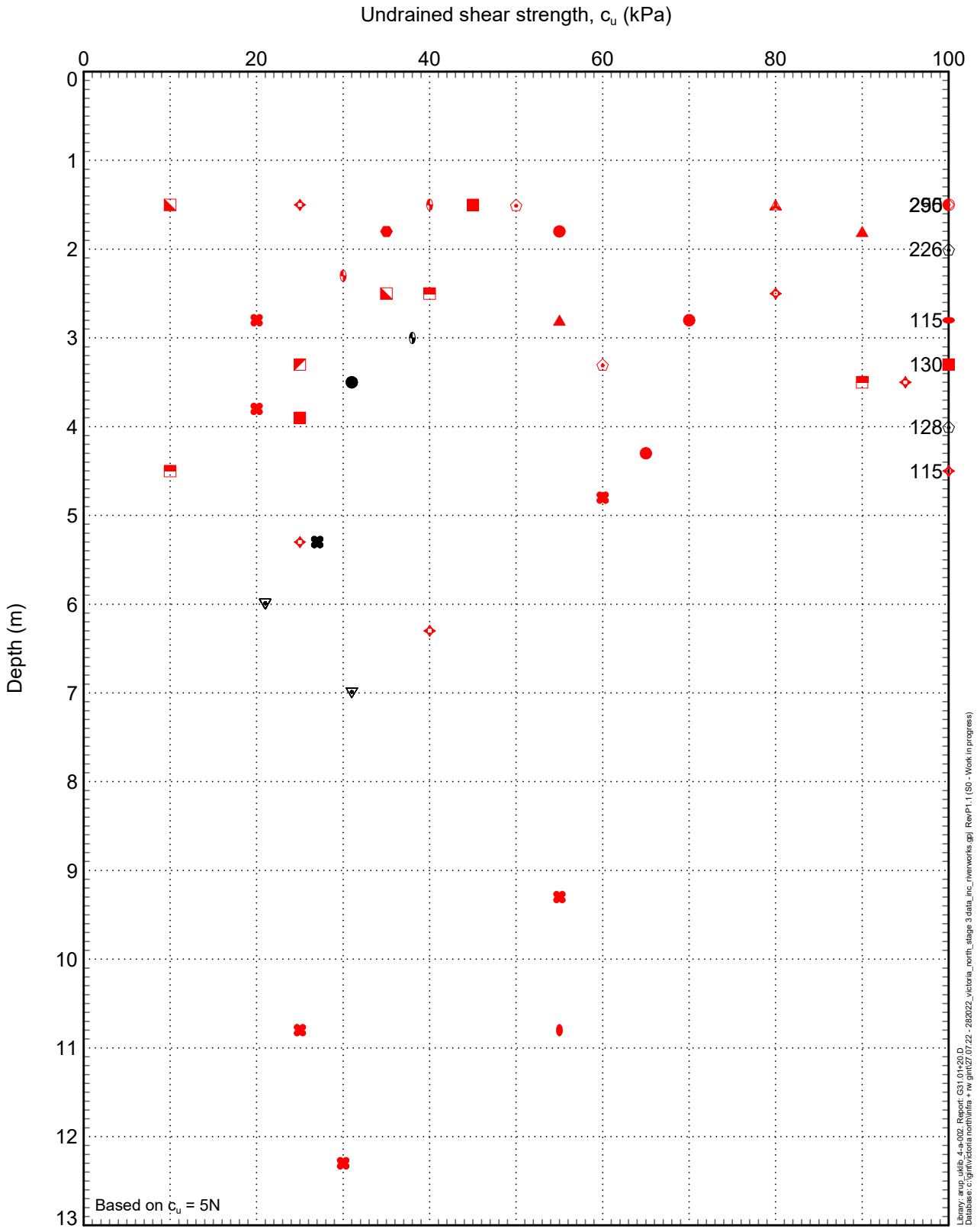
Job Title
Victoria North

Figure Title
Triaxial undrained shear strength
MADE GROUND - COHESIVE &
GLACIAL TILL DEPOSITS -
COHESIVE

Job No
282022

Chart 4A

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 9-Aug-22



- From triaxial test
- cu from SPT (x5)
- 01_BH101
- 01_BH102
- 01_BH103
- 01_BH104
- 01_BH105
- BH304
- BH304A
- BH305
- BH311
- BH312
- BH324
- GEO_BH202
- GEO_WS201A
- GEO_WS201B
- GEO_WS207
- GEO_WS210
- GEO_WS211
- GEO_WS213A
- GEO_WS214

ARUP

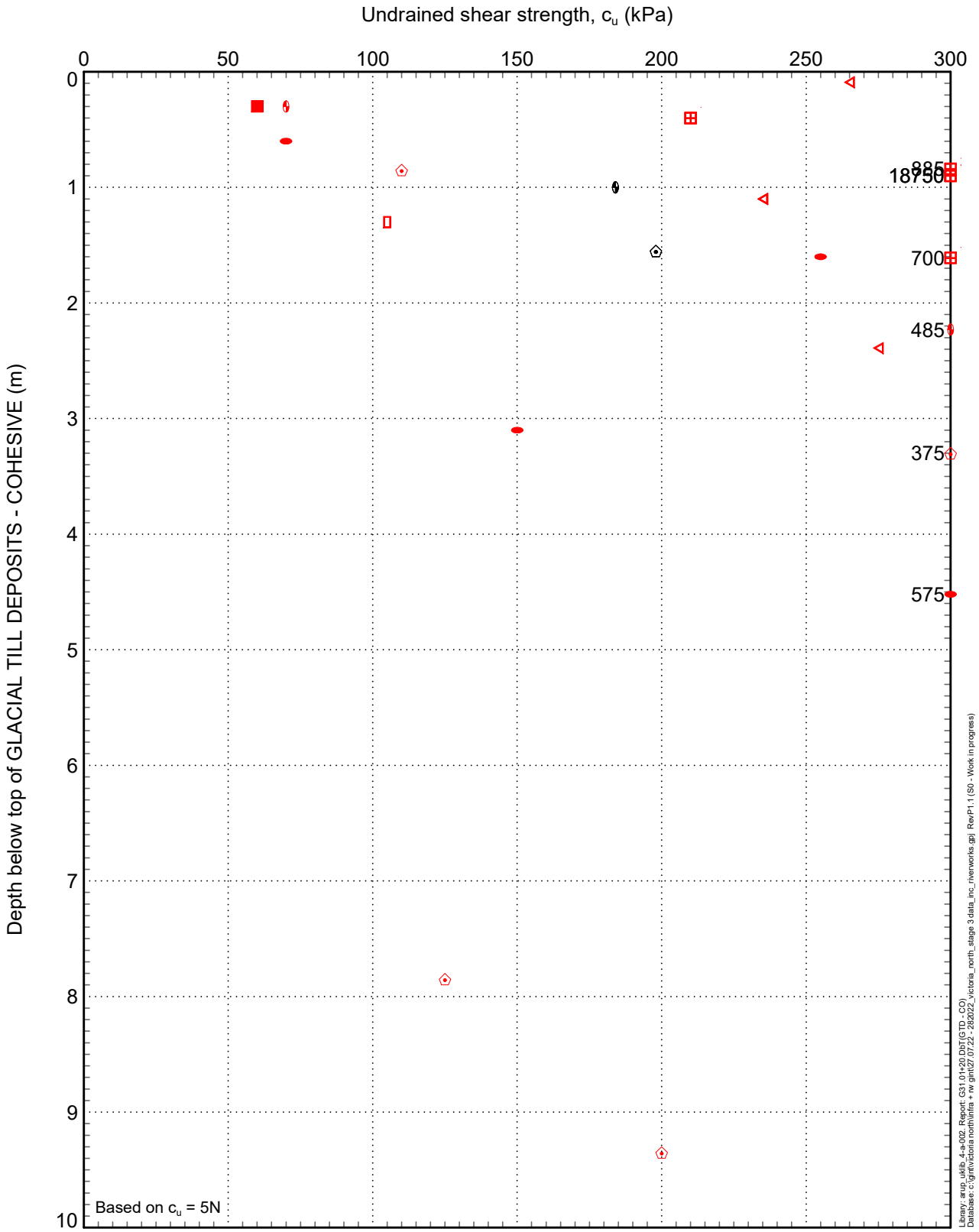
Job Title
Victoria North

Figure Title
Undrained shear strength
Red Bank plateau
Made ground

Job No
282022

Chart 4B

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 11-Aug-22



- From triaxial test
- cu from SPT (x5)
- 01_BH102
- BH311
- BH312
- GEO_BH202
- GEO_BH201
- GEO_BH205
- GEO_BH209

ARUP

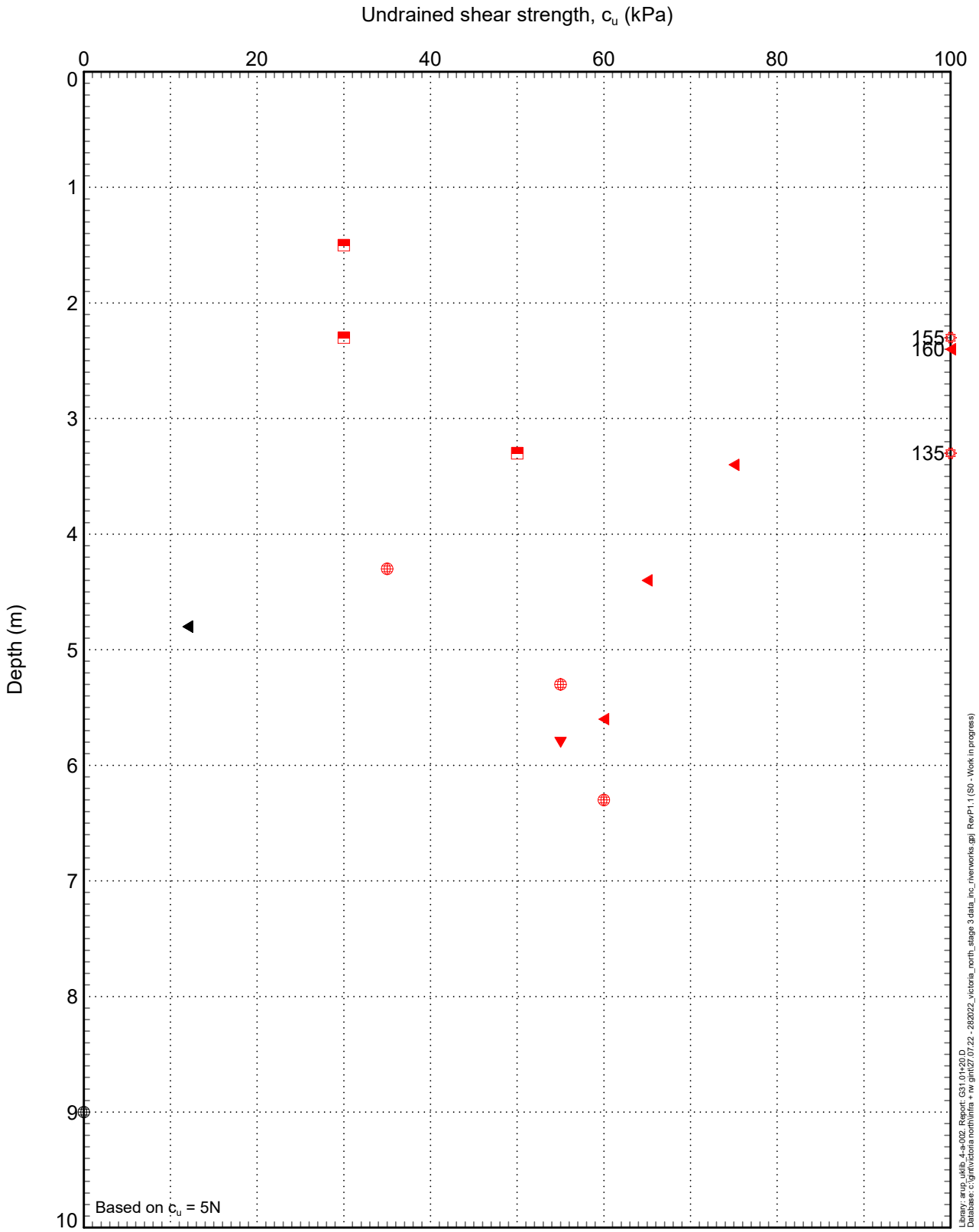
Job Title
Victoria North

Figure Title
Undrained shear strength
Red Bank Plateau
Glacial till deposits

Job No
282022

Chart 4C

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 11-Aug-22



- From triaxial test
- cu from SPT (x5)
- 01_BH106
- 01_BH110
- BH307
- BH314
- BH325

ARUP

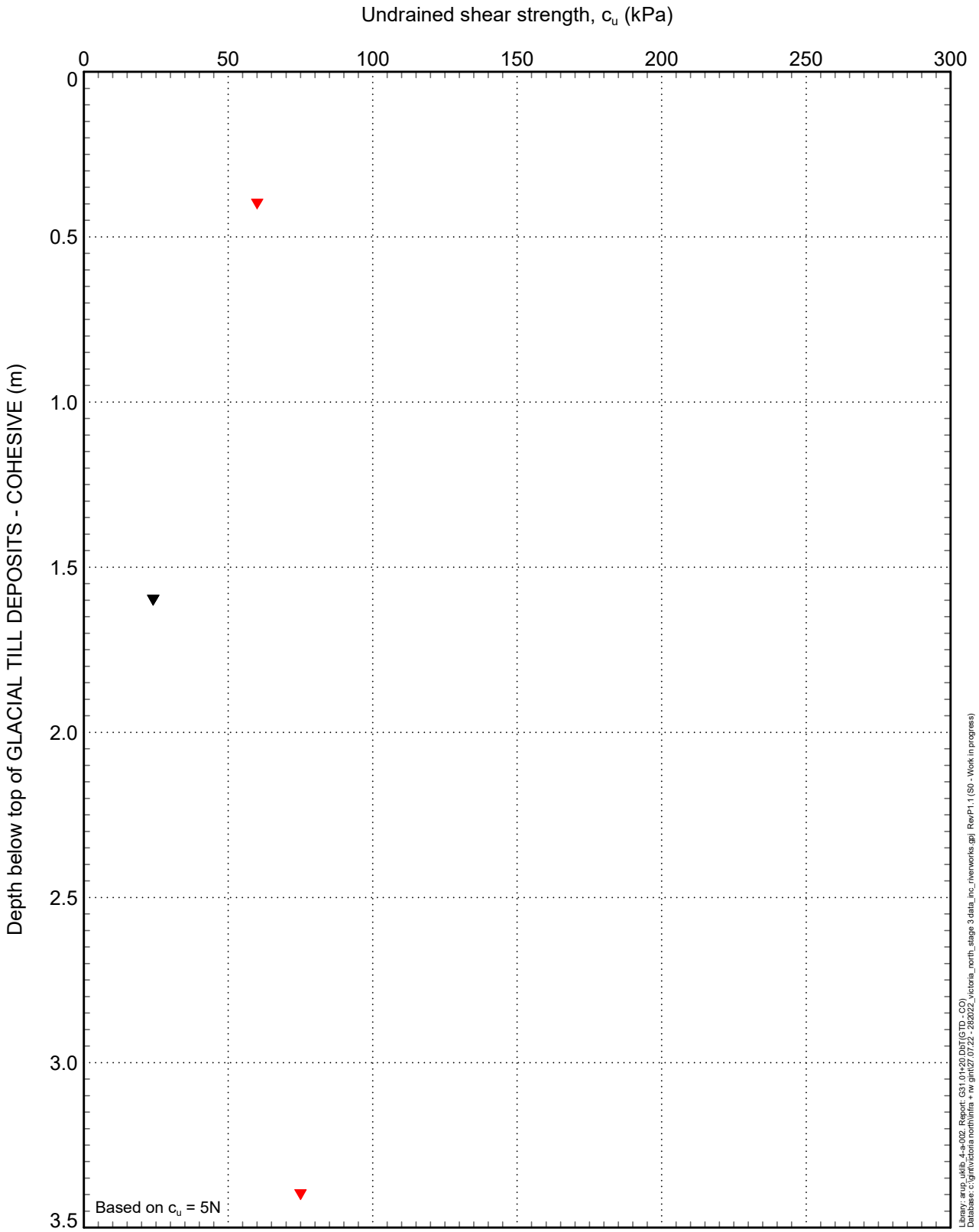
Job Title
Victoria North

Figure Title
Undrained shear strength
Red Bank Terrace
Made ground

Job No
282022

Chart 4D

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 11-Aug-22



Library: arup_uklib_4-x-002, Report: G31.01+20.DbT(GTD_CO)
Database: c:\gint\victoria northinfra + nw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

■ From triaxial test
■ cu from SPT (x5)
▼ 01_BH106

ARUP

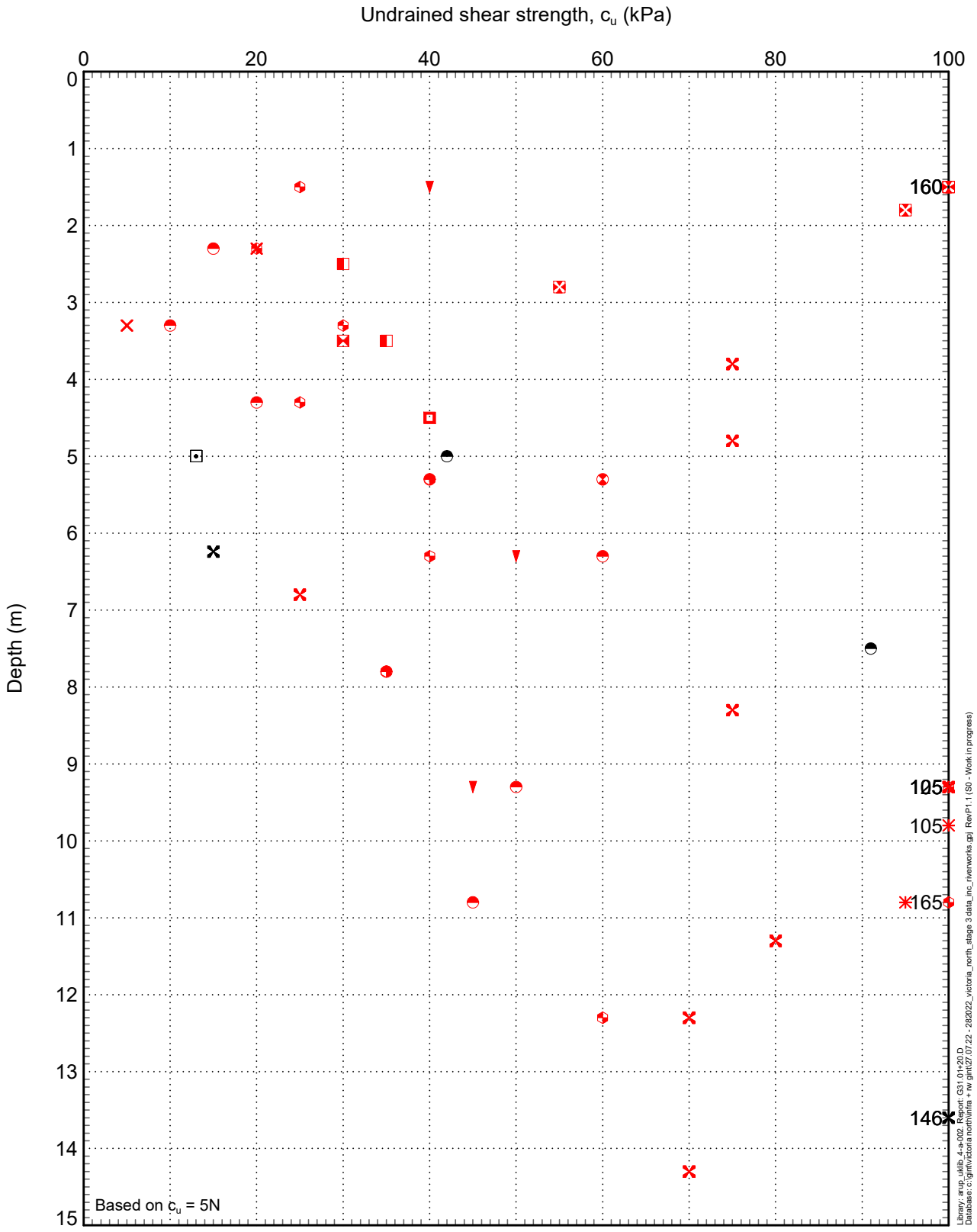
Job Title
Victoria North

Figure Title
Undrained shear strength
Red Bank Terrace
Glacial till deposits

Job No
282022

Chart 4E

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 11-Aug-22



Library: arup_uklib_4-a-002_Report: G31.01+20.D
Database: c:\gint\victoria northinfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

- From triaxial test
- cu from SPT (x5)
- BH301
- BH301B
- BH302
- BH315
- GEO_BH204
- GEO_BH203
- BH309
- 01_WS103
- BH321
- GEO_WS202
- GEO_WS203A
- GEO_WS206

ARUP

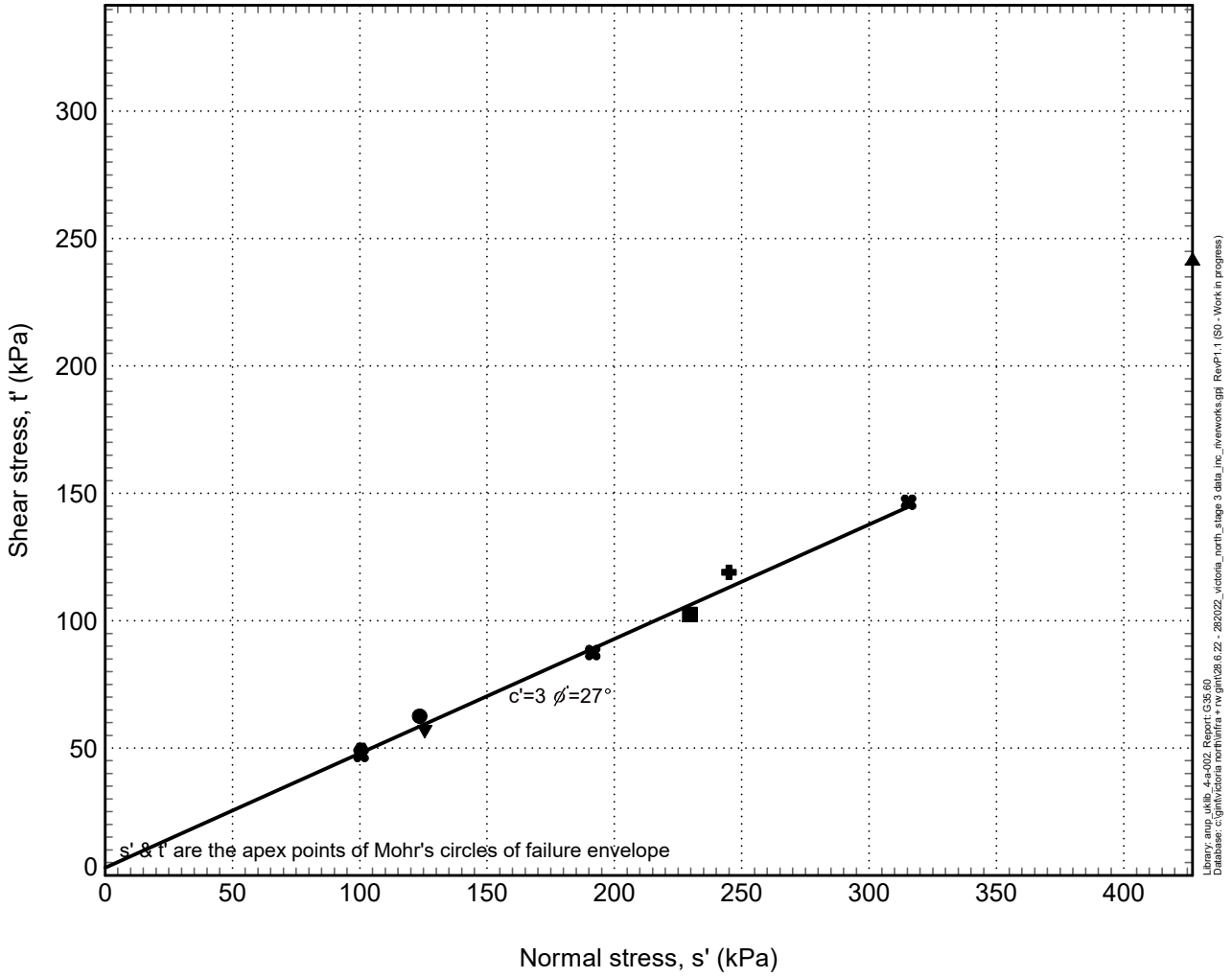
Job Title
Victoria North

Figure Title
Undrained shear strength
St Catherine's Wood
Made ground

Job No
282022

Chart 4F

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 11-Aug-22



- BH301B, 38.0mOD
- BH301B, 34.5mOD
- BH301B, 30.0mOD
- BH302, 35.3mOD
- BH315, 37.3mOD
- BH315, 35.3mOD
- BH315, 31.8mOD

ARUP

Job Title
Victoria North

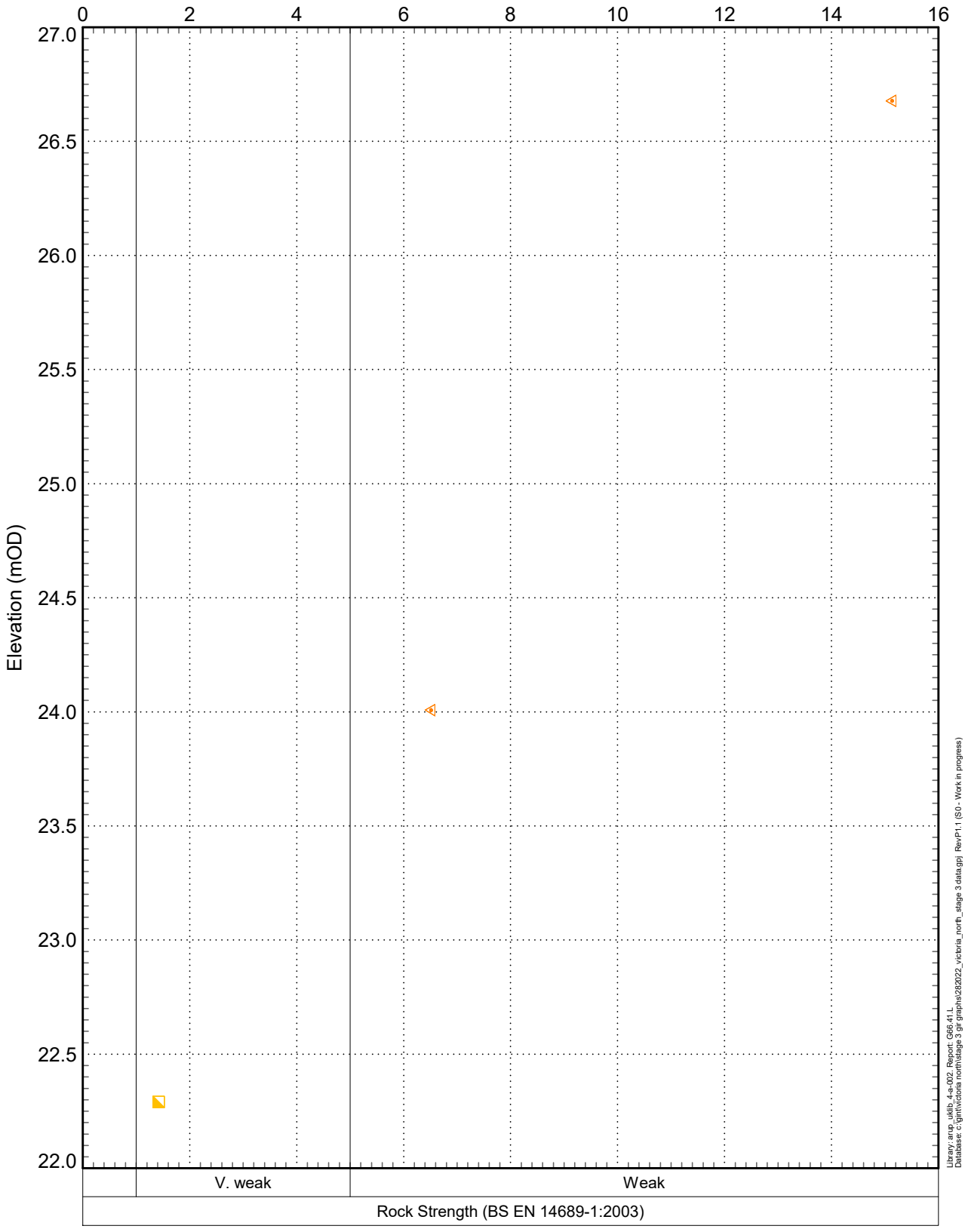
Figure Title
Triaxial t' v s'

P&P slope - MG Cohesive

Job No
282022

Chart 5

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 12-Jul-22



- Chester Formation (CHES)
- Collyhurst Sandstone Formation (CS)
- GEO_BH203
- GEO_BH210

ARUP

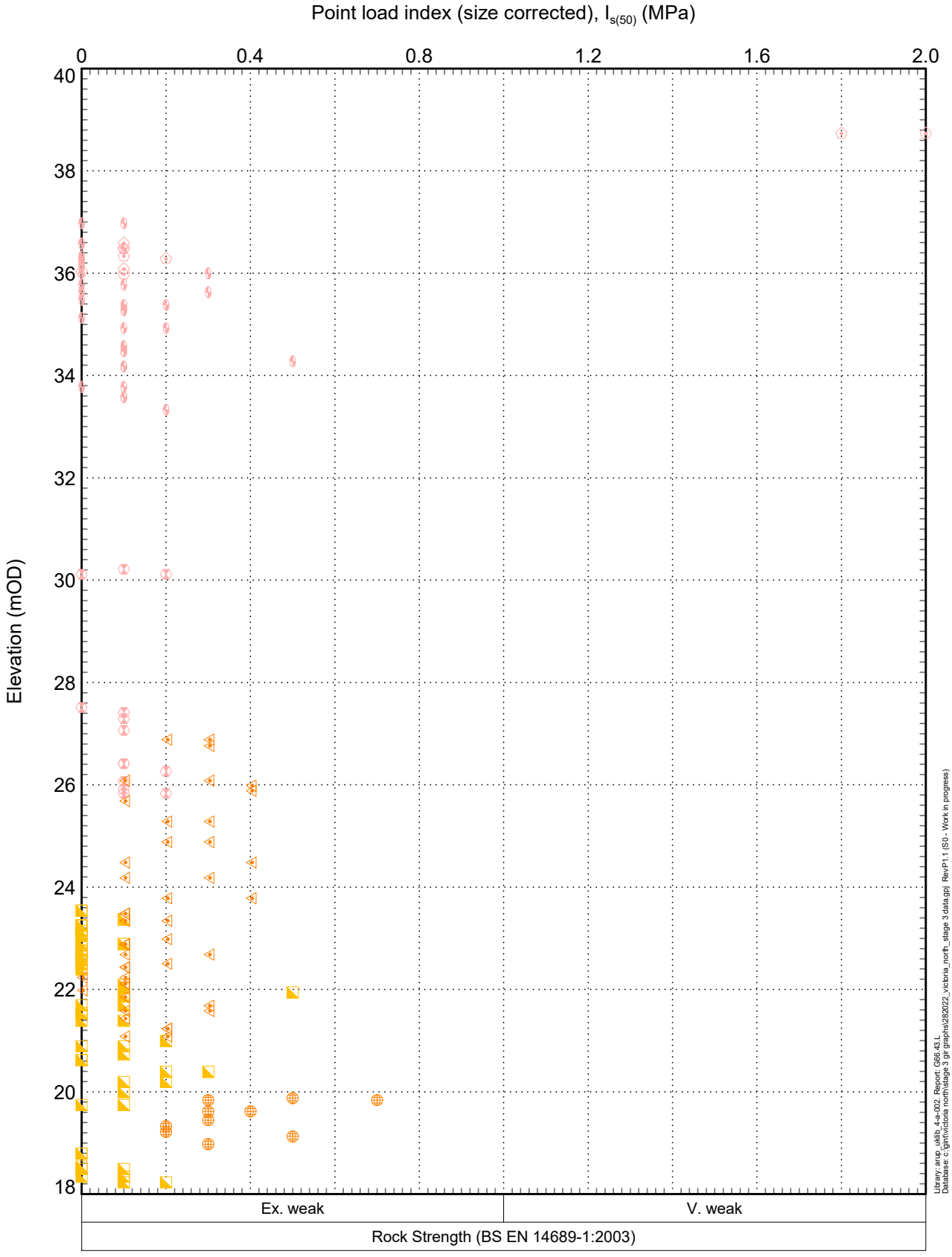
Job Title
Victoria North

Figure Title
Uniaxial compressive strength
BEDROCK

Job No
282022

Figure No
Chart 6A

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 21-Oct-21



- Chester Formation (CHES)
- Manchester Marls Formation (MM)
- Collyhurst Sandstone Formation (CS)
- GEO_BH201
- GEO_BH203
- GEO_BH205
- GEO_BH209
- GEO_BH210
- GEO_BH212

ARUP

Job Title
Victoria North

Figure Title
Point load index (size corrected)
BEDROCK

Job No
282022

Figure No
Chart 6B

ARUP, gINT v10.00.01.07. Made by Jonny Tyrer on 21-Oct-21

Table 1: Summary of equivalent CBR via DCP testing method.

Exploratory Hole ID	Stata	Start depth (mm)	Equivalent CBR reading (%) at ~500mm below start depth	Equivalent CBR reading (%) at ~1000mm below start depth	Equivalent CBR reading (%) at ~1500mm below start depth	Equivalent CBR reading (%) at ~2000mm below start depth
Red Bank Plateau						
TP201	Granular	800	-	12.5	26.5	-
TP203	Granular	300	8.5	8.5	8.5	-
TP207	Granular	300	10	6	12.5	-
TP209	Granular	300	-	-	-	-
TP210	Granular	800	-	55	-	-
TP211	Granular	250	26.5	-	-	-
TP213	Topsoil	400	3	6	6	12.5
TP214	Granular	500	4	26.5	17	26.5
TP215	Granular	700	-	2	1	4
TP216	Granular	300	12.5	8.5	17	-
TP217	Granular	450	12.5	26.5	-	-
TP304	Granular	0	-	5.2	-	10
TP305	Granular	0	3.5	2.1	-	-
TP306	Granular	0	6.7	1.8	8.3	-
TP308	Granular	0	19	-	-	-
TP309	Granular	0	5.9	-	-	-
TP310	Granular	0	16	-	-	-
BH324	Granular	0	23	-	5.6	-
Red Bank Terrace						
TP218	Cohesive	450	12.5	12.5	4	-
TP219	Granular	700	-	55	-	-
TP307	Granular	0	-	-	0.91	
St Catherine's Wood						
TP204	Granular	400	5	8.5	12.5	-
TP205	Topsoil	250	6	8.5	-	-
TP206	Topsoil	300	17	-	-	-

Exploratory Hole ID	Stata	Start depth (mm)	Equivalent CBR reading (%) at ~500mm below start depth	Equivalent CBR reading (%) at ~1000mm below start depth	Equivalent CBR reading (%) at ~1500mm below start depth	Equivalent CBR reading (%) at ~2000mm below start depth
TP206A	Granular	400	6	12.5	26.5	26.5
TP208	Topsoil	600	2	17	26.5	-
TP212	Granular	800	-	3	2	3.5
TT301	Cohesive	0		14		17
TT303	Cohesive	0		11		7.9
BH323	Cohesive	0	5.1		5.3	

Range of acceptable moisture content indicated for suitable structural and general fill (TP103 - 1.5m depth)

Chart 7A

Optimum Moisture Content (%) = **14.3**

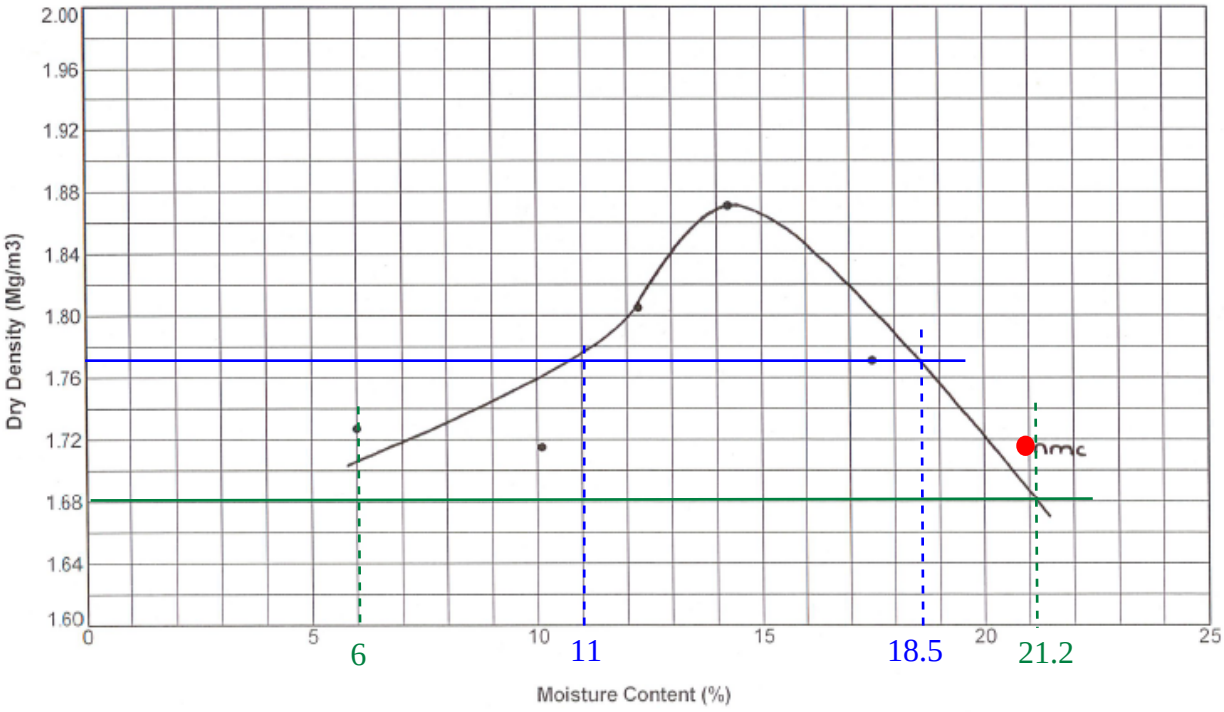
Particle Density (Assumed) = **2.70**

Maximum Dry Density (Mg/m3) = **1.87**

Retained on 20mm Sieve (%) = **0.8**

Date Tested = **25/02/2019**

Retained on 37.5mm Sieve (%) = **0.0**



Structural fill (95% of the maximum dry density)

General fill (90% of the maximum dry density)

Natural moisture content

Range of acceptable moisture content indicated for suitable structural and general fill (TP121 - 0.8m depth)

Chart 7B

Optimum Moisture Content (%) = **11.2**

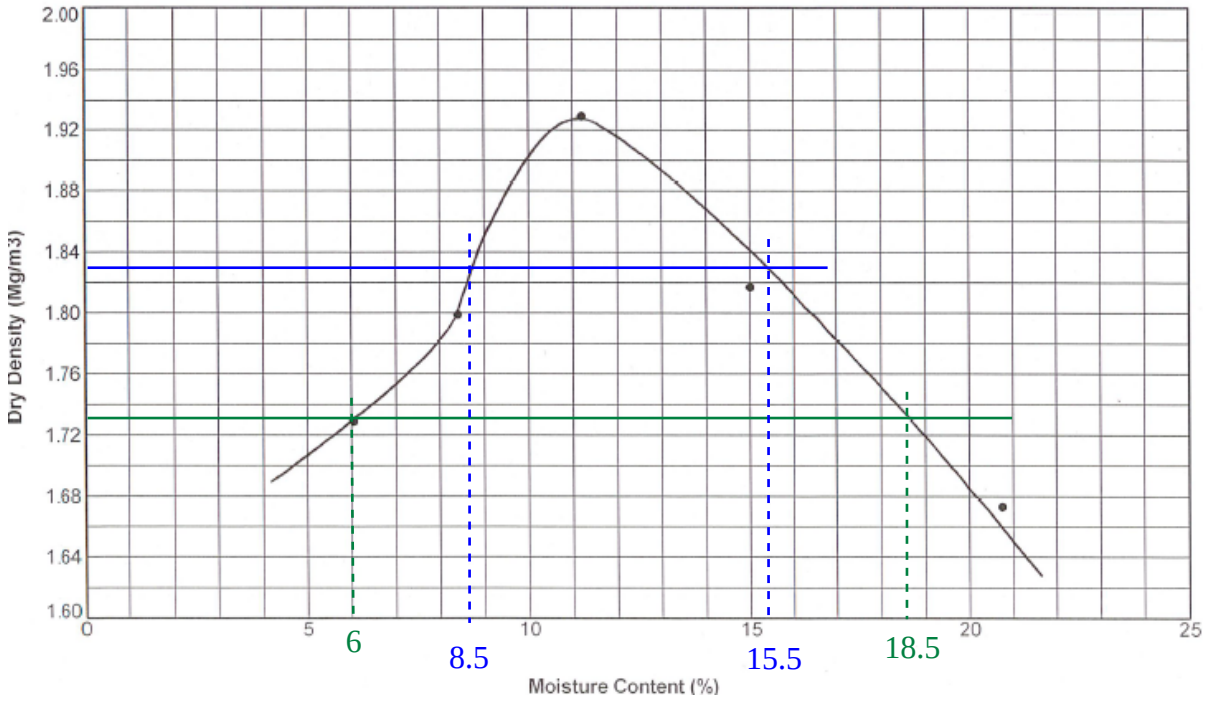
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **1.93**

Retained on 20mm Sieve (%) = **7.0**

Date Tested = **25/02/2019**

Retained on 37.5mm Sieve (%) = **2.0**



Structural fill (95% of the maximum dry density)

General fill (90% of the maximum dry density)

Natural moisture content

Range of acceptable moisture content indicated for suitable structural and general fill (BH205 - 3.8m depth)

Chart 7C

Optimum Moisture Content (%) = **14**

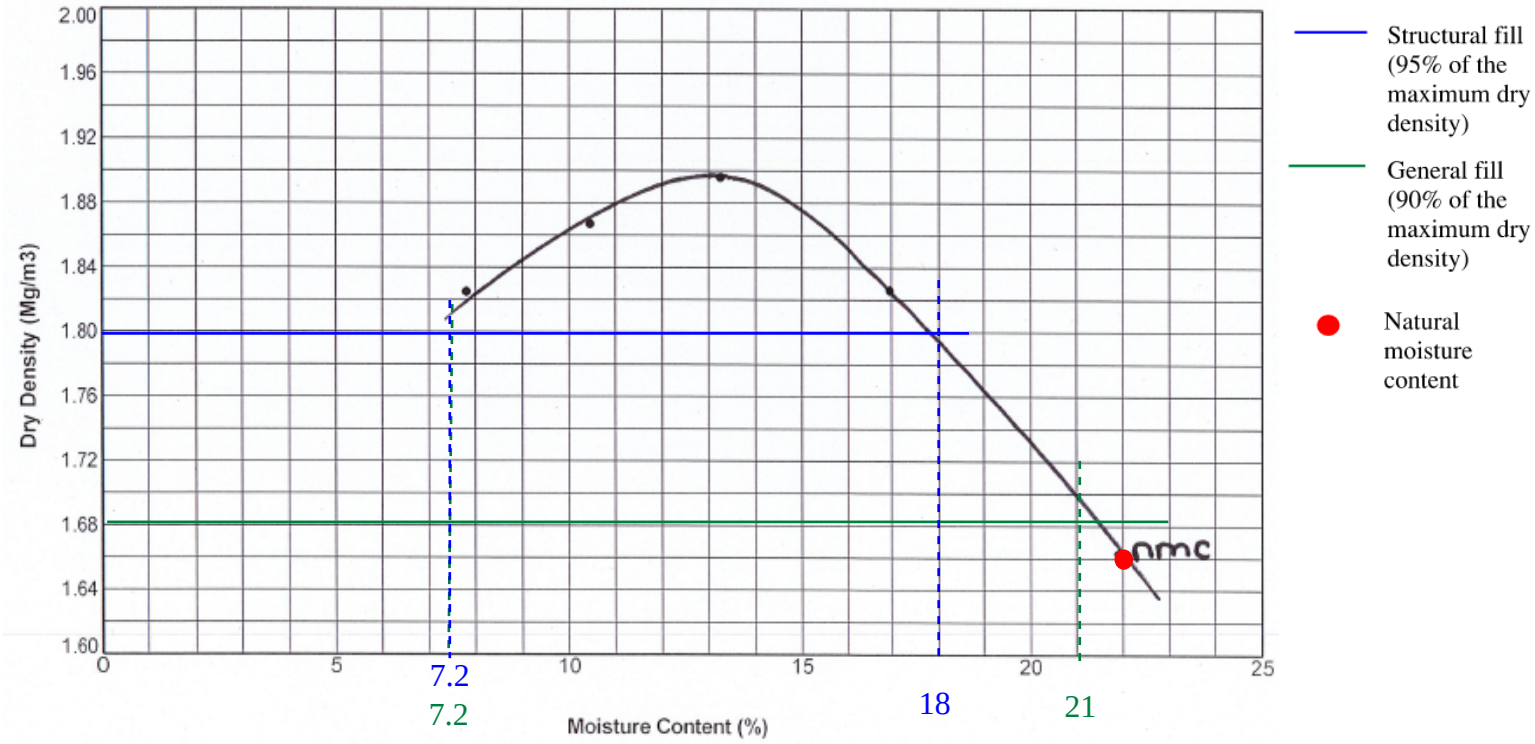
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **1.90**

Retained on 20mm Sieve (%) = **1.0**

Date Tested = **20/09/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (BH213 - 2.5m depth)

Chart 7D

Optimum Moisture Content (%) = **11**

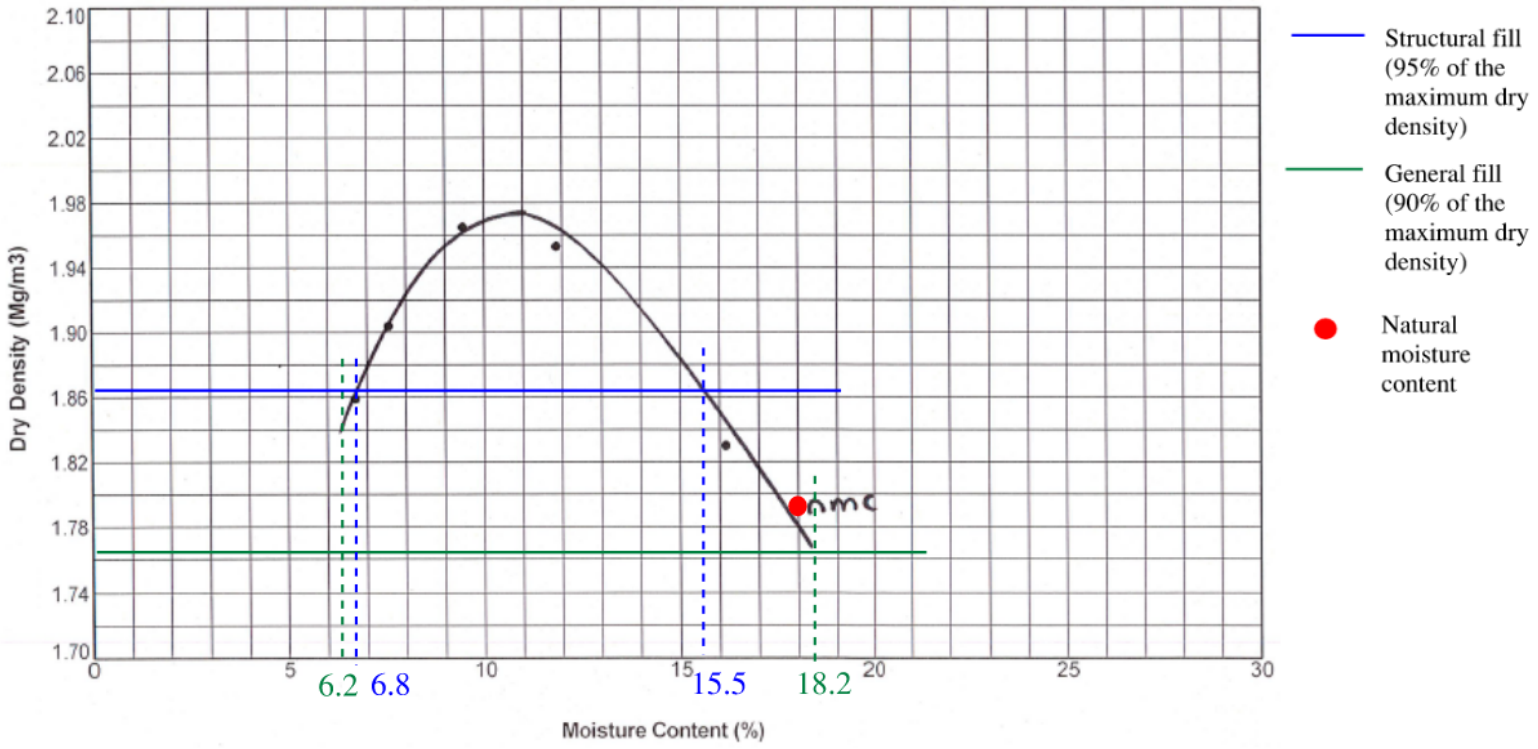
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **1.97**

Retained on 20mm Sieve (%) = **8.8**

Date Tested = **27/05/2021**

Retained on 37.5mm Sieve (%) = **2.0**



Range of acceptable moisture content indicated for suitable structural and general fill (BH215 A- 1.5m depth) **Chart 7E**

Optimum Moisture Content (%) = **9.0**

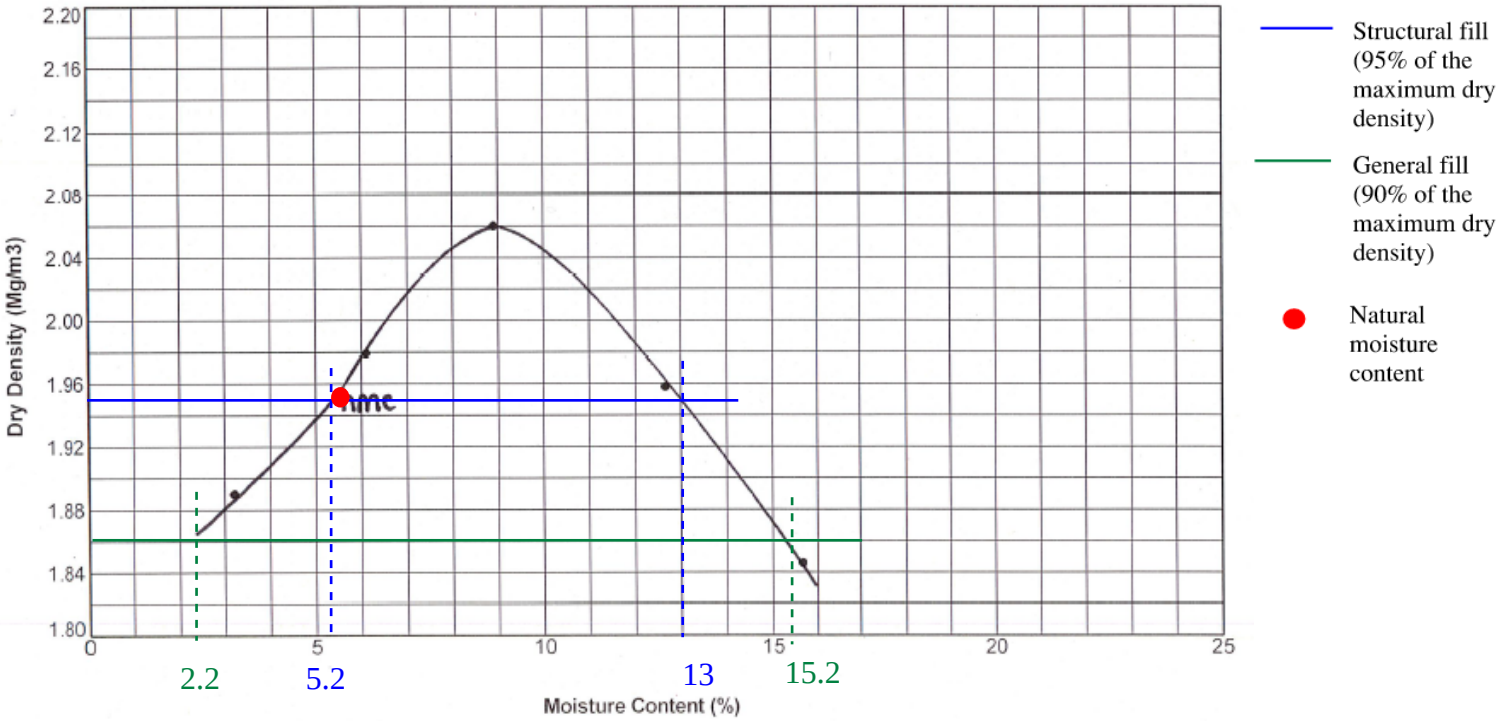
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **2.06**

Retained on 20mm Sieve (%) = **7.4**

Date Tested = **27/05/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (BH215 B- 2.5m depth) **Chart 7F**

Optimum Moisture Content (%) = **15**

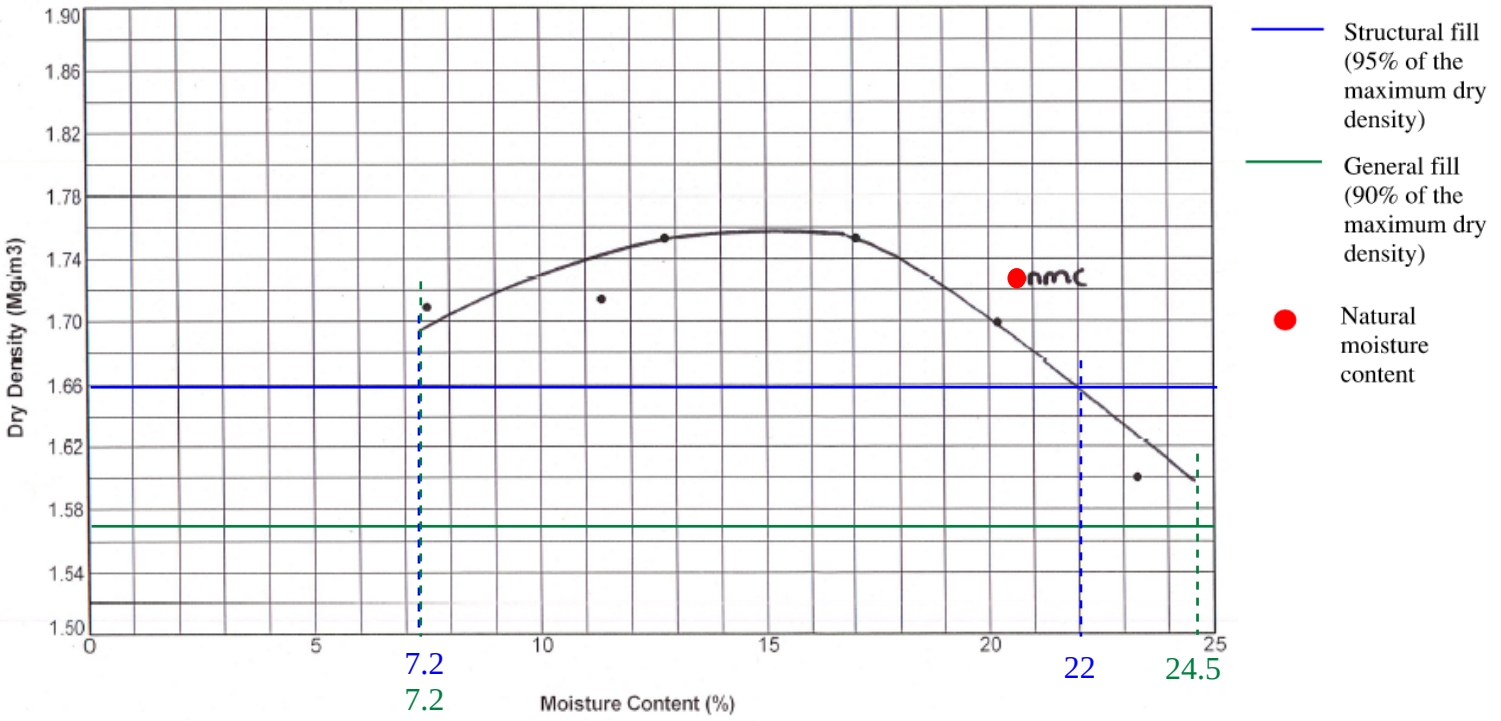
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **1.75**

Retained on 20mm Sieve (%) = **0.0**

Date Tested = **25/05/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (TP201 - 2.0m depth)

Chart 7G

Optimum Moisture Content (%) = 12

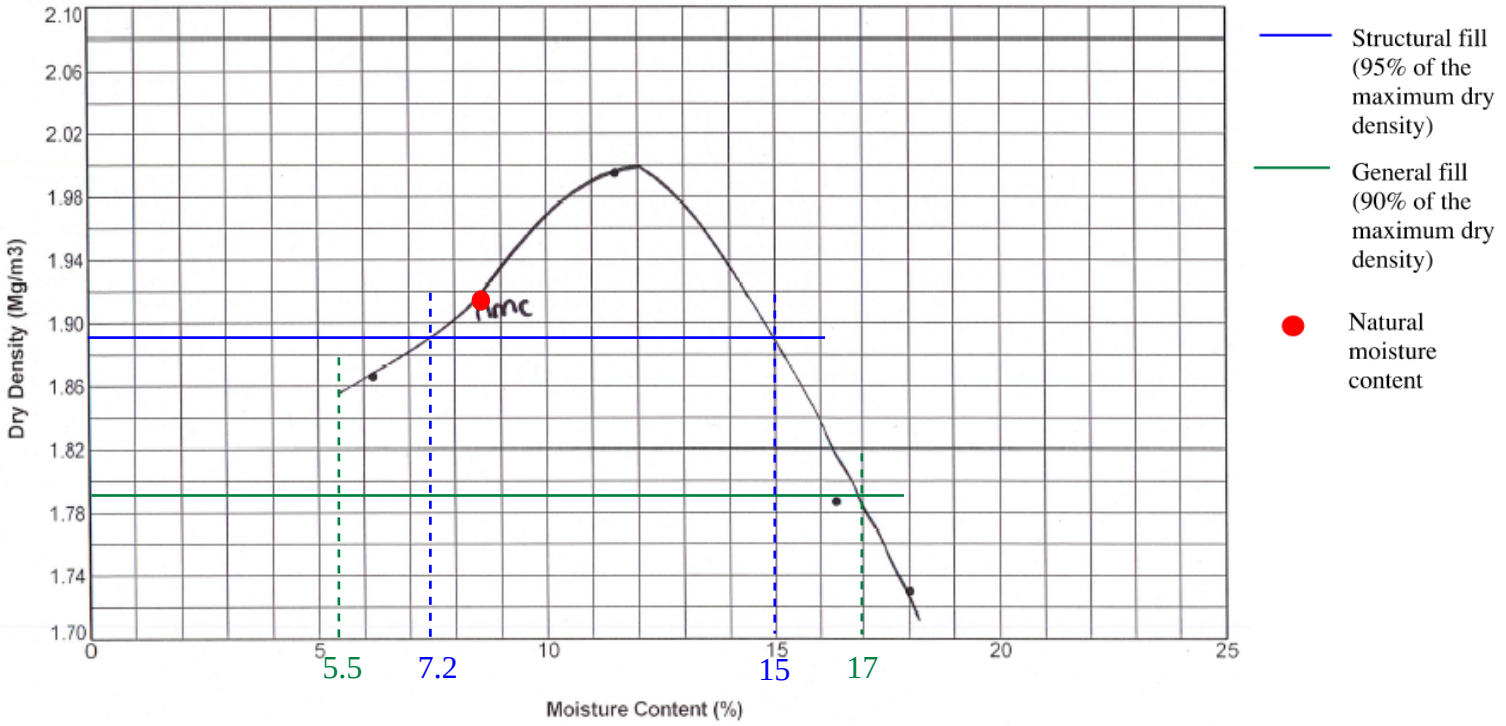
Particle Density (Assumed) = 2.60

Maximum Dry Density (Mg/m3) = 2.00

Retained on 20mm Sieve (%) = 0.0

Date Tested = 03/06/2021

Retained on 37.5mm Sieve (%) = 0.0



Range of acceptable moisture content indicated for suitable structural and general fill (TP201 - 4.0m depth)

Chart 7H

Optimum Moisture Content (%) = 18

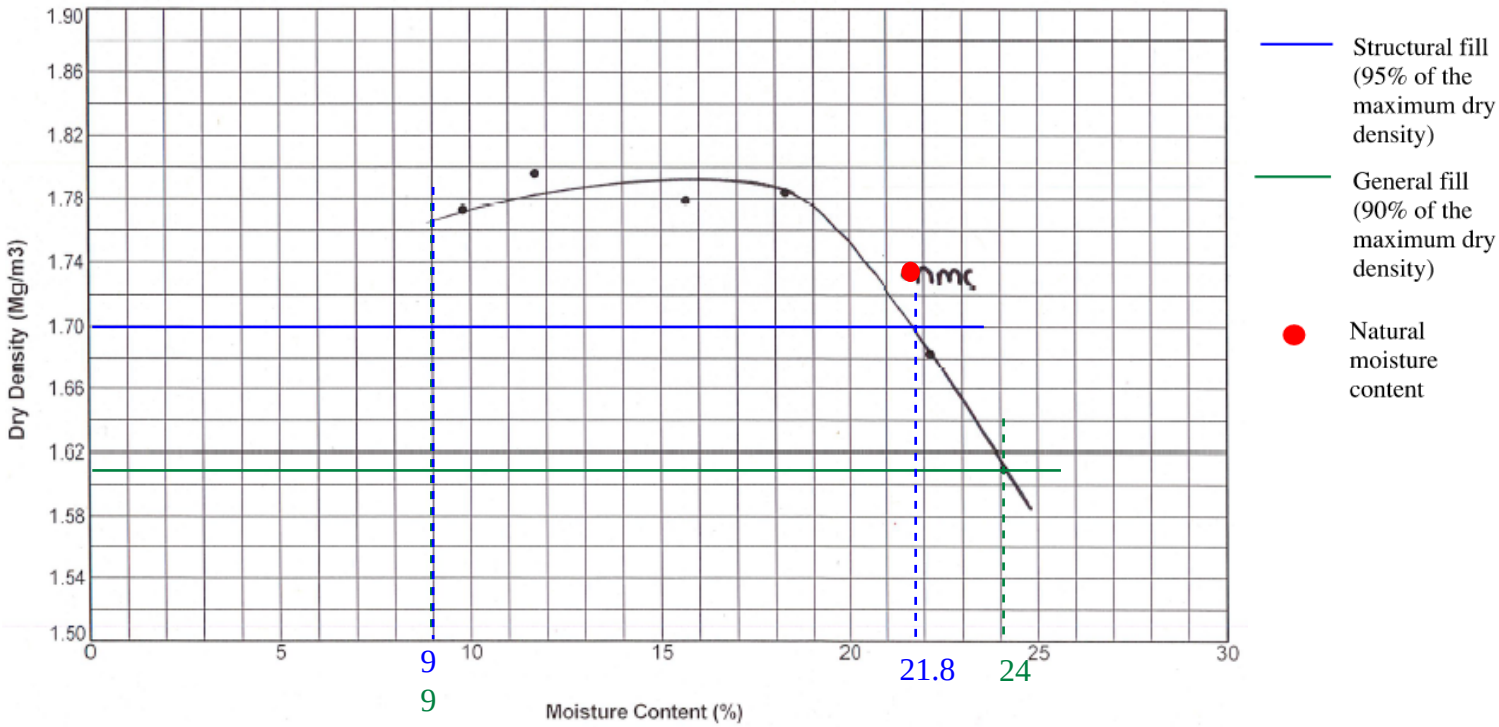
Particle Density (Assumed) = 2.80

Maximum Dry Density (Mg/m3) = 1.79

Retained on 20mm Sieve (%) = 1.0

Date Tested = 25/05/2021

Retained on 37.5mm Sieve (%) = 0.0



Range of acceptable moisture content indicated for suitable structural and general fill (TP207 - 3.0m depth) **Chart 7I**

Optimum Moisture Content (%) = **17**

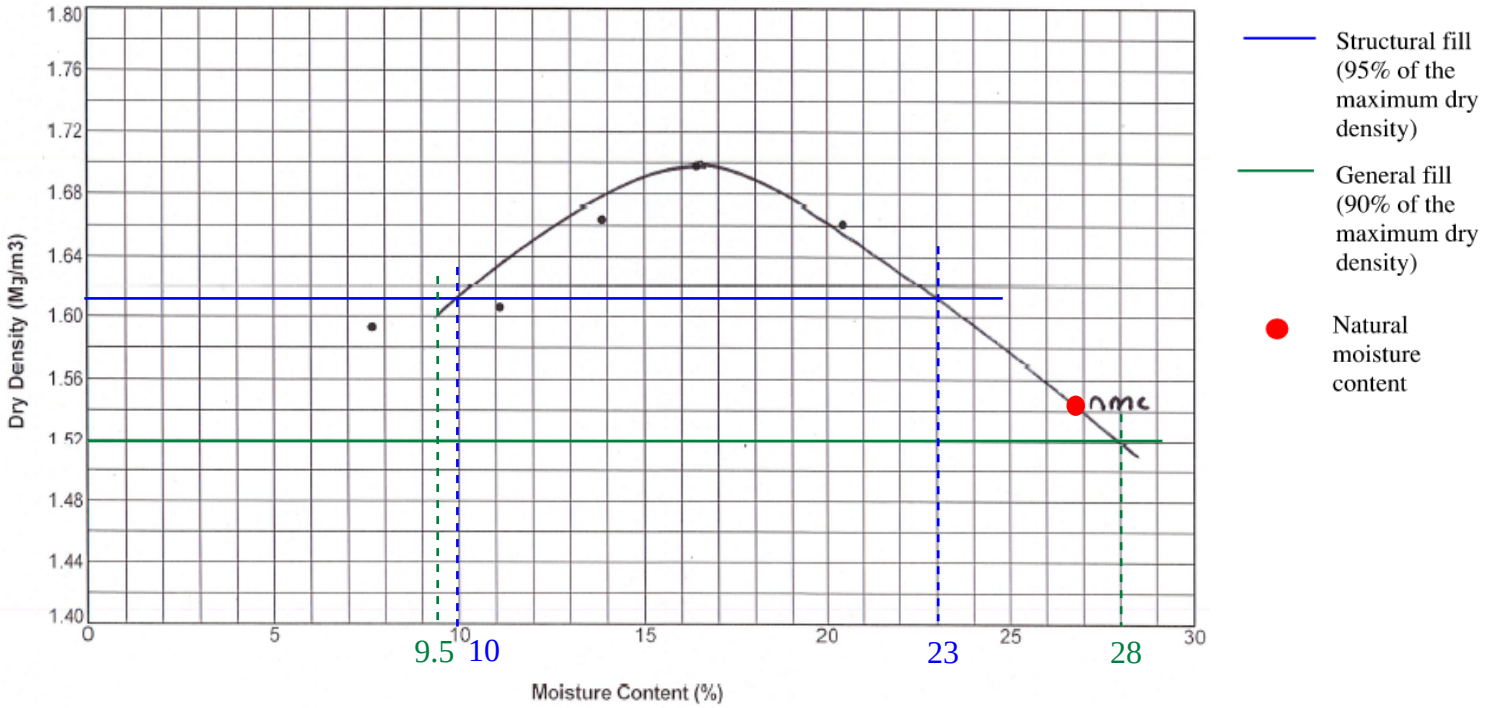
Particle Density (Assumed) = **2.65**

Maximum Dry Density (Mg/m3) = **1.70**

Retained on 20mm Sieve (%) = **0.0**

Date Tested = **26/05/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (TP209 - 3.0m depth) **Chart 7J**

Optimum Moisture Content (%) = **15**

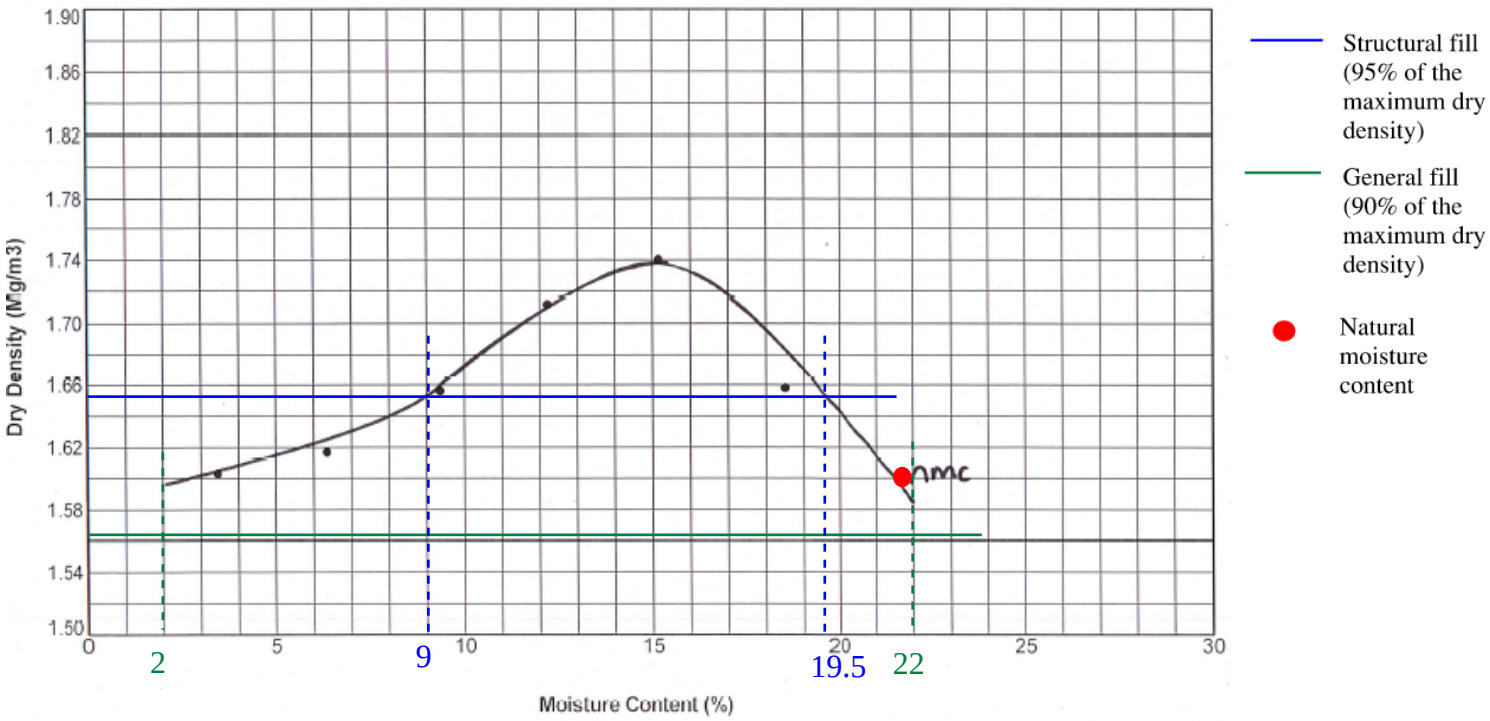
Particle Density (Assumed) = **2.50**

Maximum Dry Density (Mg/m3) = **1.74**

Retained on 20mm Sieve (%) = **0.0**

Date Tested = **26/05/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (TP211 - 3.0m depth) **Chart 7K**

Optimum Moisture Content (%) = **17**

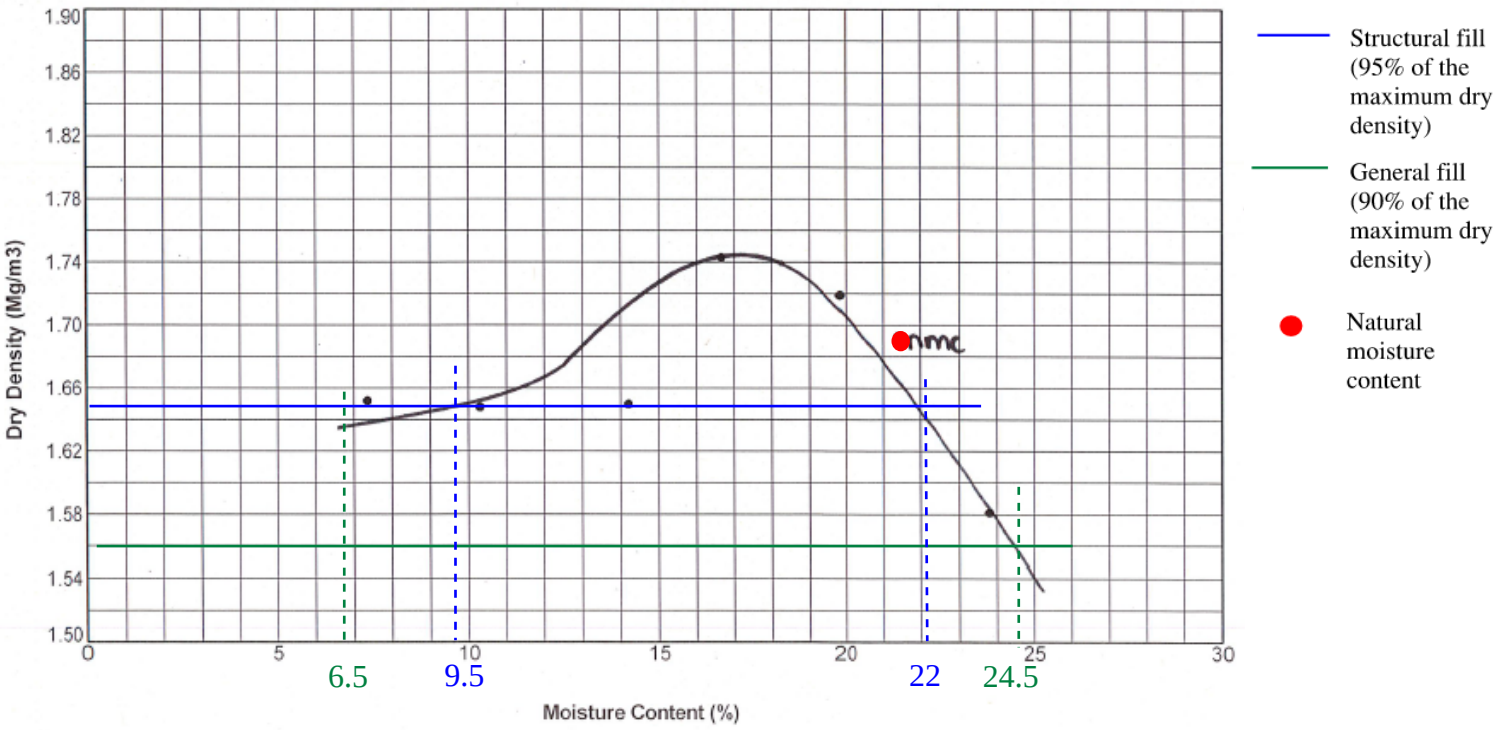
Particle Density (Assumed) = **2.70**

Maximum Dry Density (Mg/m3) = **1.75**

Retained on 20mm Sieve (%) = **0.9**

Date Tested = **26/05/2021**

Retained on 37.5mm Sieve (%) = **0.0**



Range of acceptable moisture content indicated for suitable structural and general fill (TP212 - 2.0m depth) **Chart 7L**

Optimum Moisture Content (%) = **23**

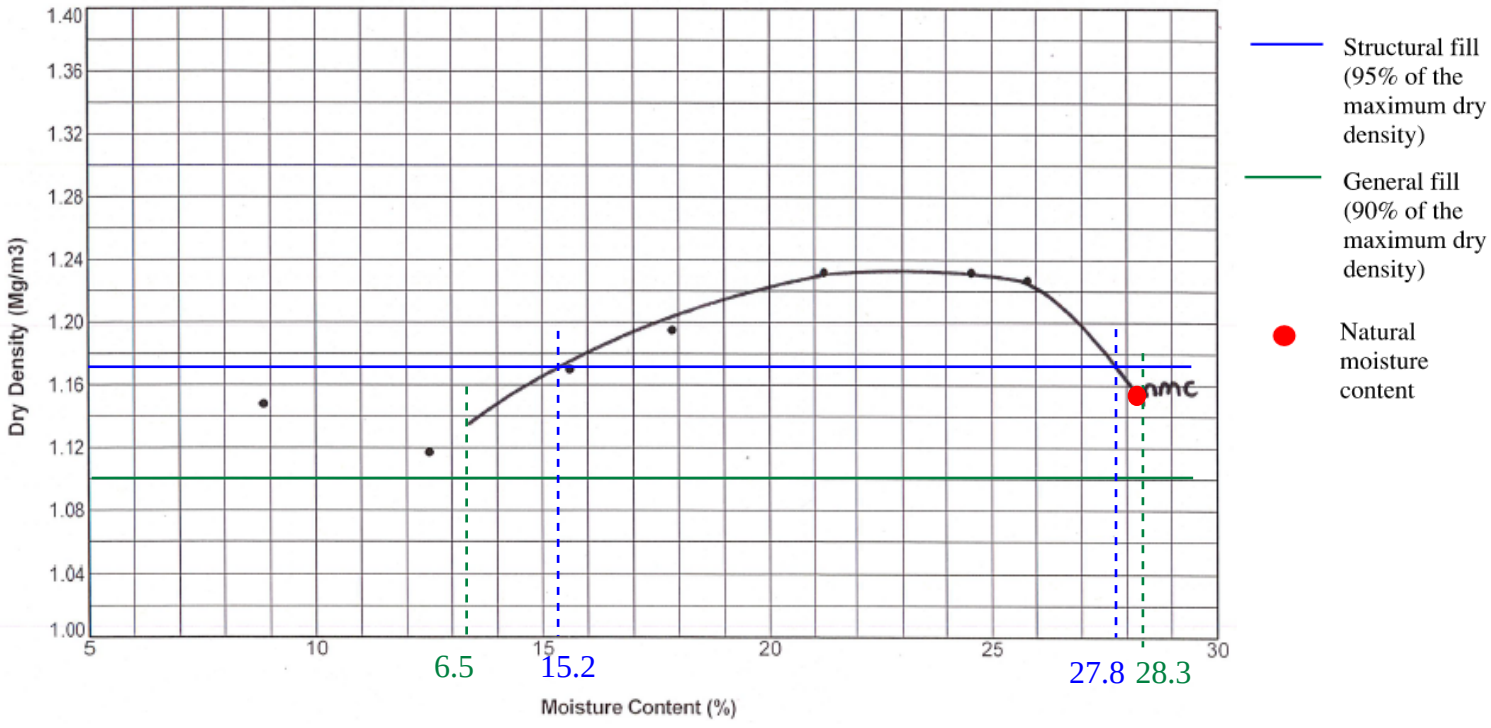
Particle Density (Assumed) = **1.80**

Maximum Dry Density (Mg/m3) = **1.23**

Retained on 20mm Sieve (%) = **4.6**

Date Tested = **26/05/2021**

Retained on 37.5mm Sieve (%) = **1.4**



Range of acceptable moisture content indicated for suitable structural and general fill (TP215 - 3.0m depth) **Chart 7M**

Optimum Moisture Content (%) = **11**

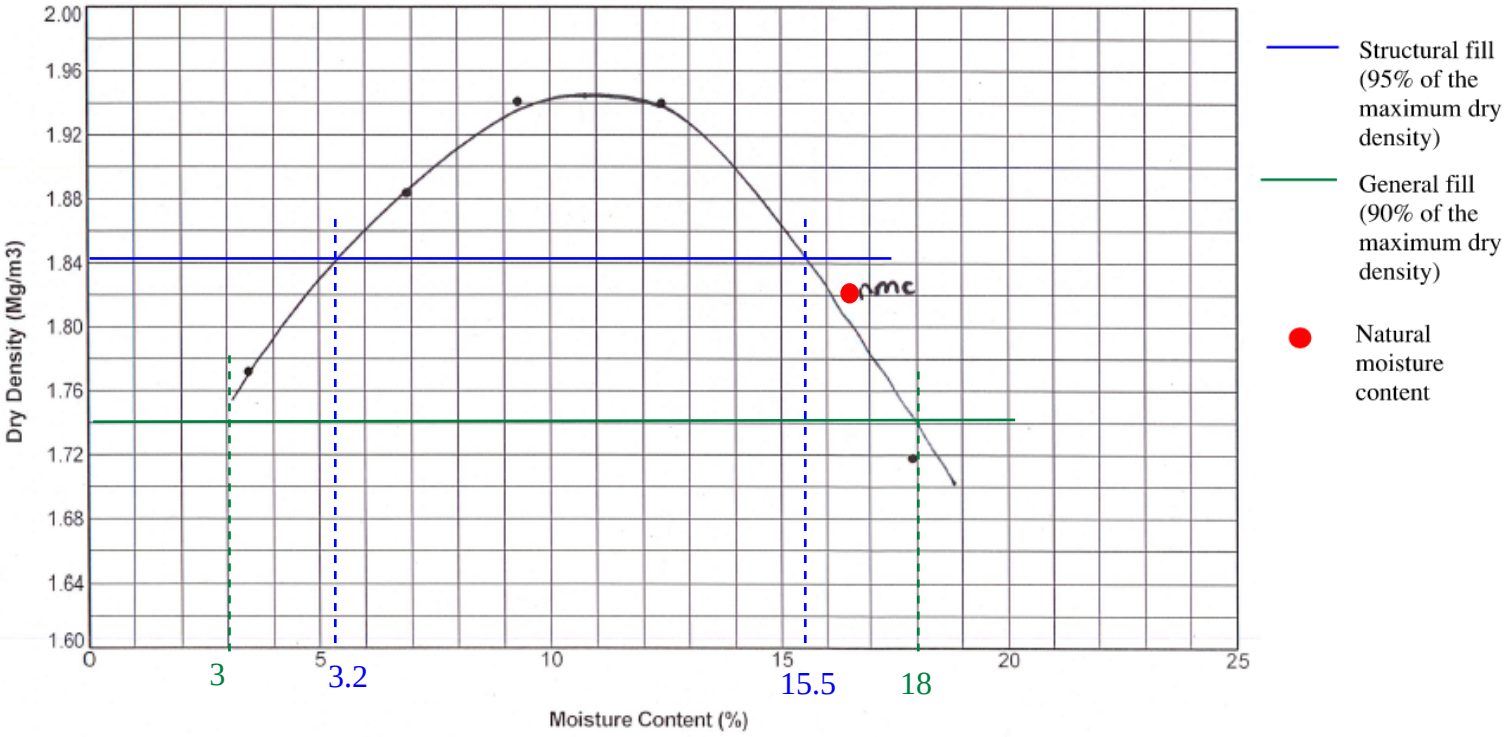
Maximum Dry Density (Mg/m3) = **1.94**

Date Tested = **27/05/2021**

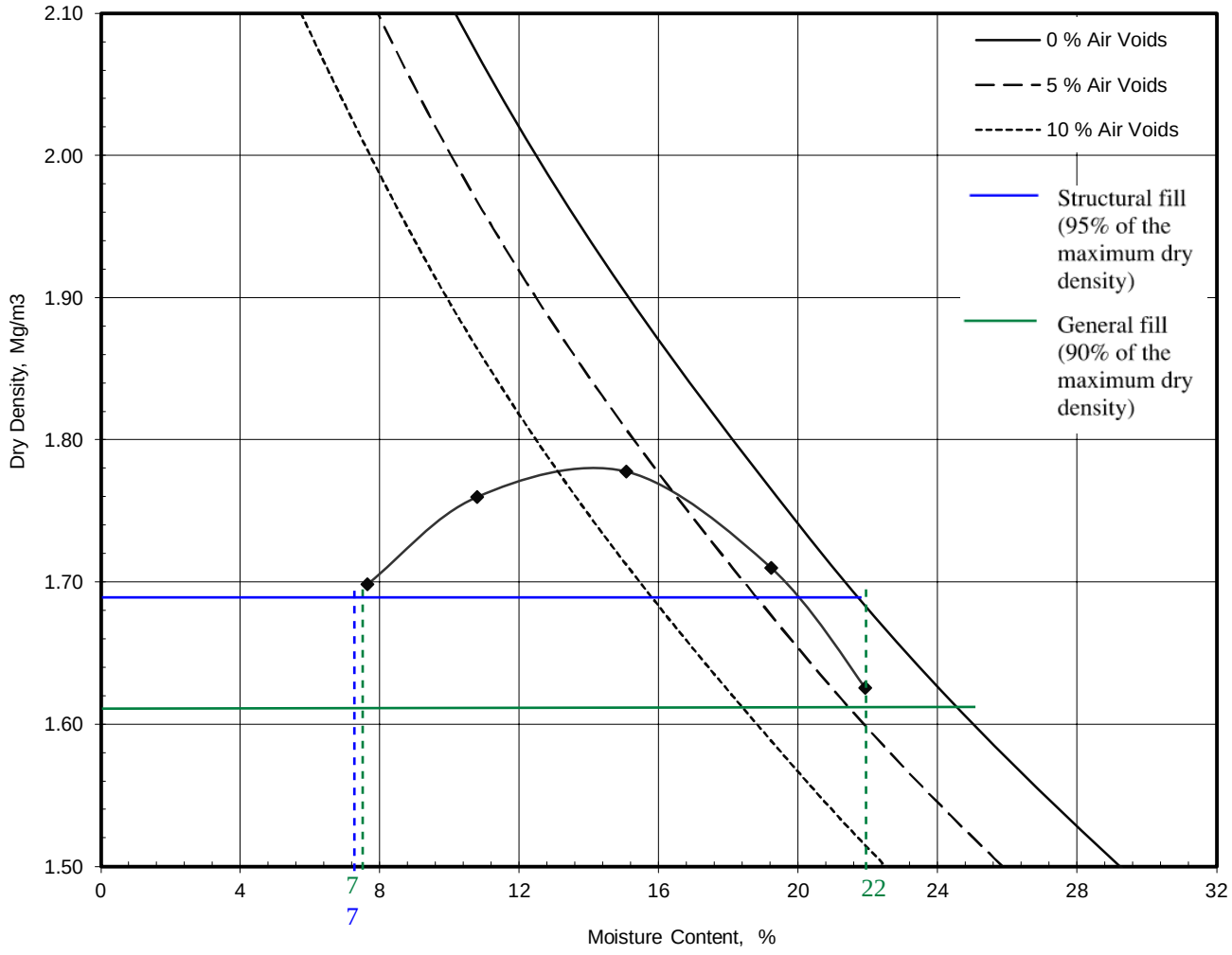
Particle Density (Assumed) = **2.65**

Retained on 20mm Sieve (%) = **9.1**

Retained on 37.5mm Sieve (%) = **6.7**



bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH301
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1030286
Soil Description	Brown sandy gravelly CLAY M/G			Depth	0.30 m
Specimen Ref.	2	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.3, 2.5kg rammer			Keylab ID	WA1030286
				Compaction Test Reference/No.	

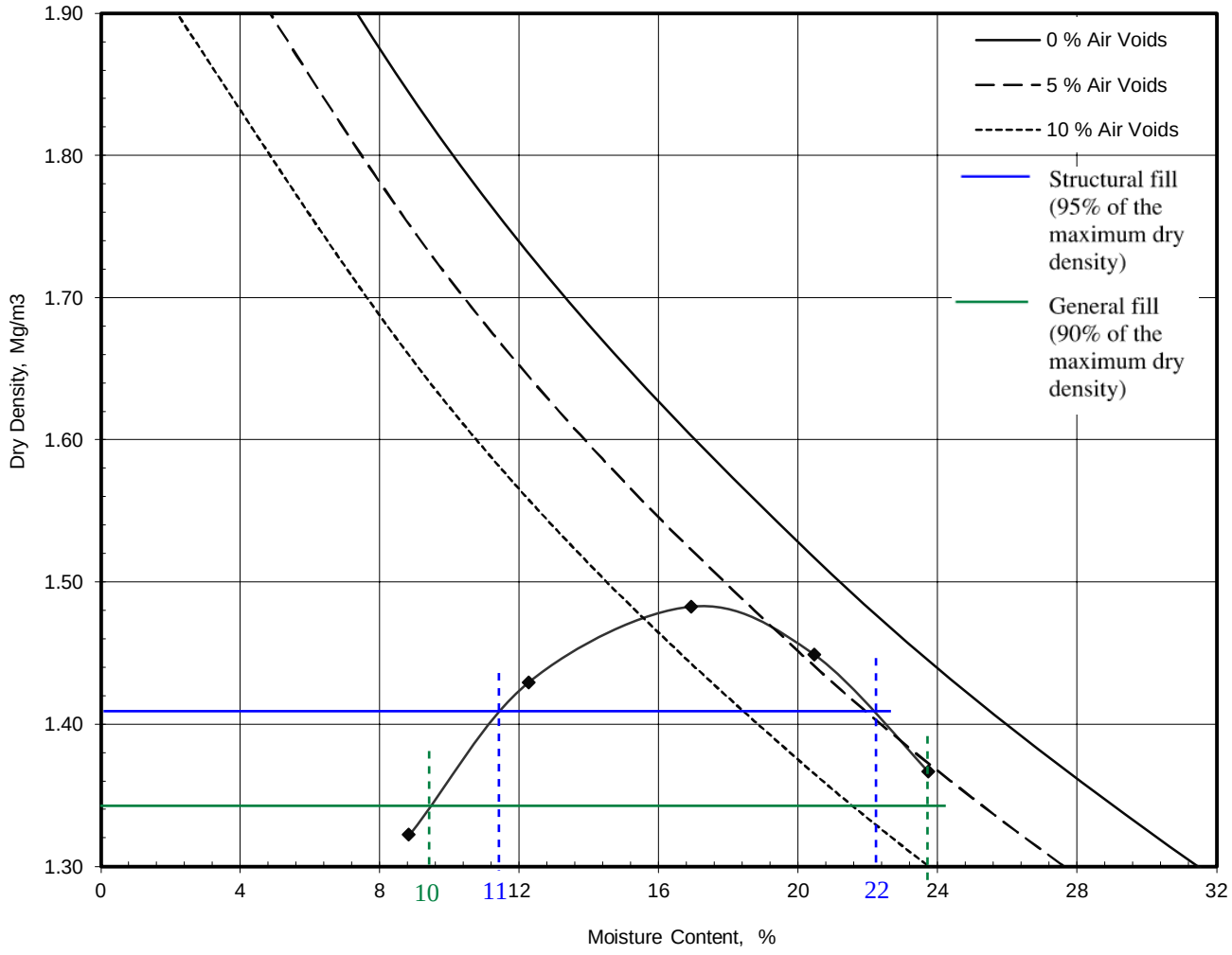


Preparation		Material used was air dried
Mould Type		1 LITRE
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	1
Particle Density - Assumed	Mg/m³	2.67

Maximum Dry Density	Mg/m³	**1.78**
Optimum Moisture Content	%	**14**

Remarks

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH303
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1020646
Soil Description				Depth	0.30 m
Specimen Ref.	1	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.4, 2.5kg rammer			Keylab ID	WA1020646
				Compaction Test Reference/No.	



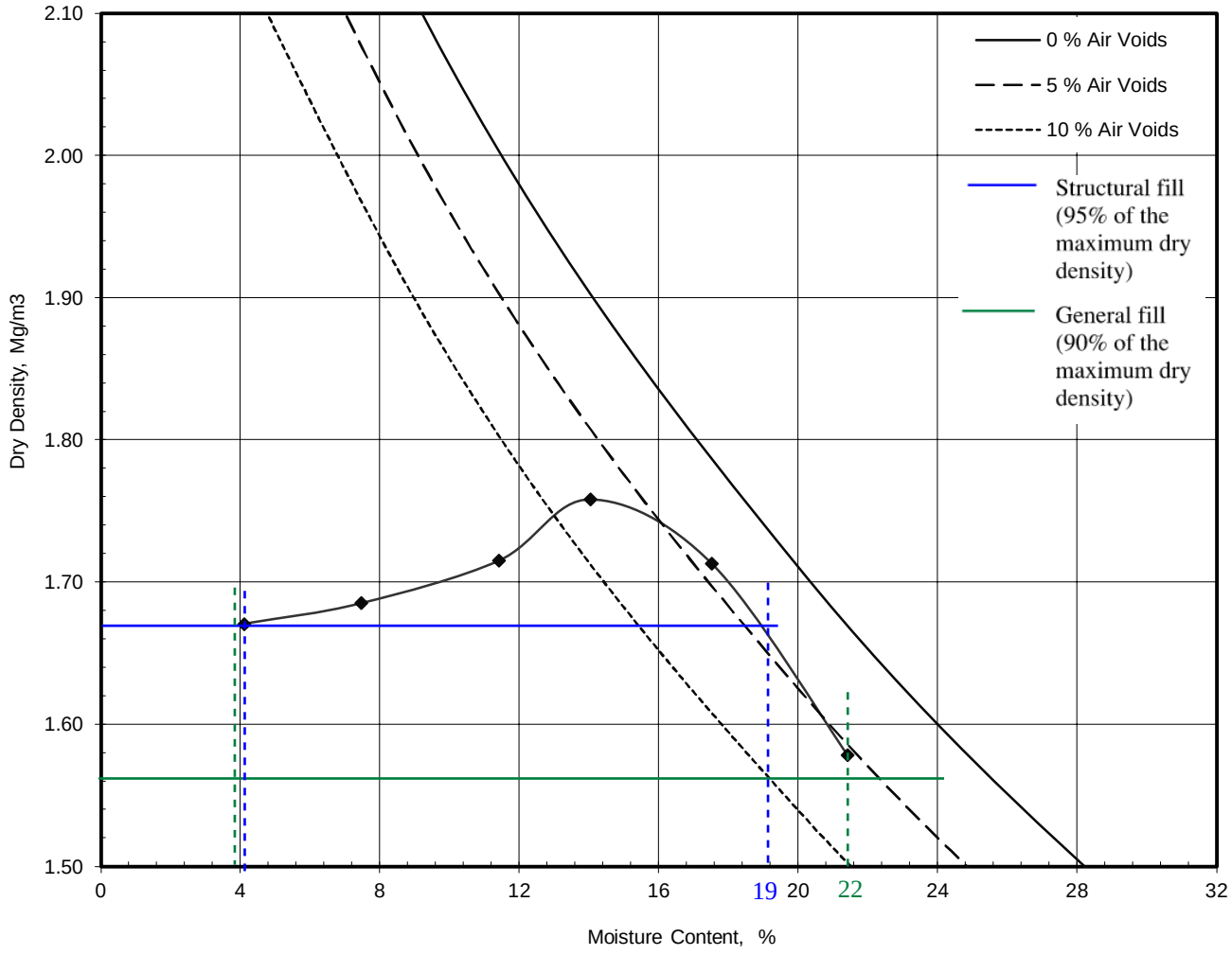
Preparation		Material used was air dried
Mould Type		CBR
Samples Used		Separate specimens tested
Material Retained on 37.5 mm Sieve	%	7
Material Retained on 20.0 mm Sieve	%	20
Particle Density - Assumed	Mg/m³	2.20

Maximum Dry Density	Mg/m³	**1.49**
Optimum Moisture Content	%	**17**

Remarks

BH303@0.30m+BH303@1.2m Combined

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH308
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1031311
Soil Description	Brown SAND + GRAVEL with cobbles			Depth	0.50 m
Specimen Ref.	2	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.3, 2.5kg rammer			Keylab ID	WA1031311
				Compaction Test Reference/No.	



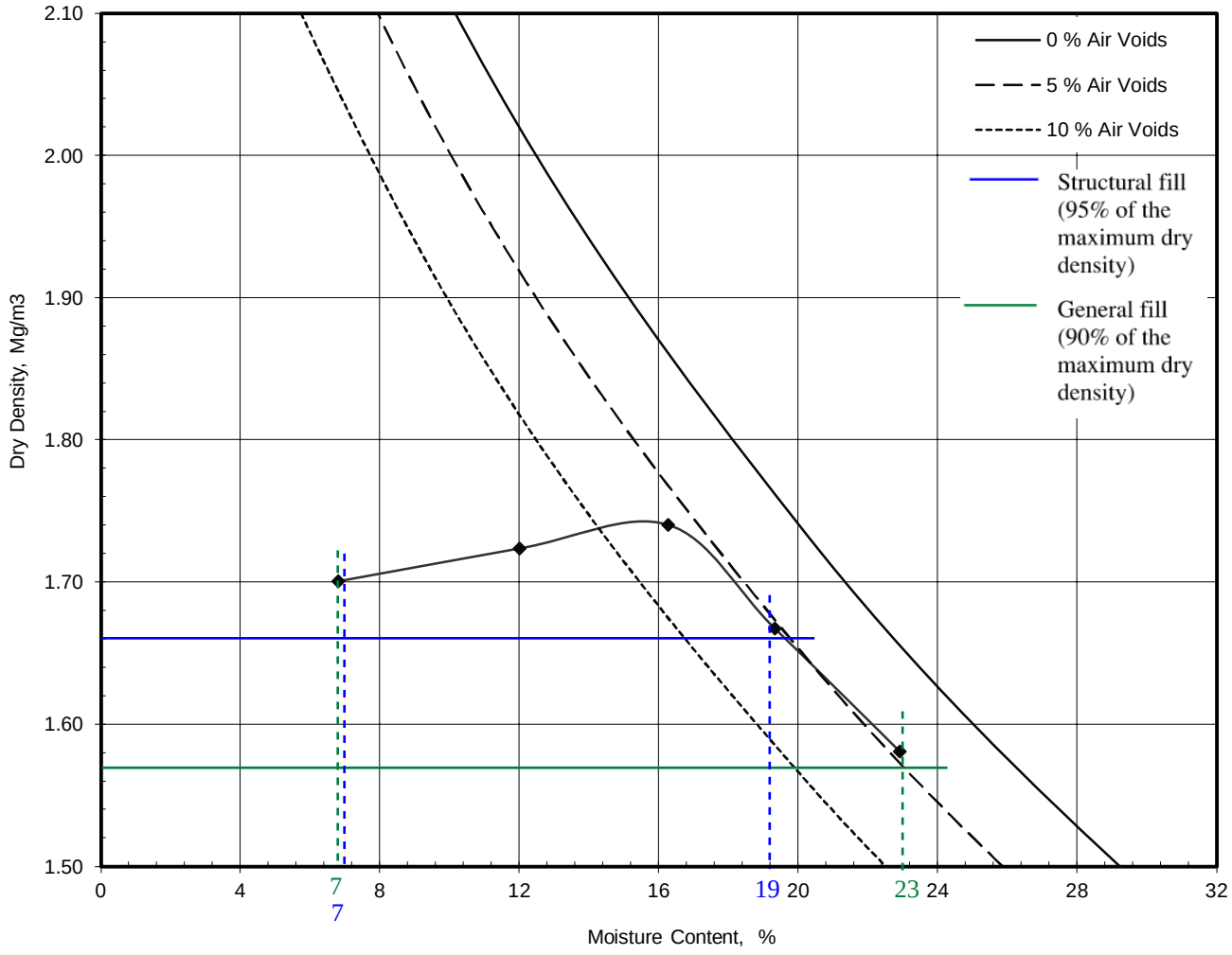
Preparation		Material used was air dried
Mould Type		1 LITRE
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	31
Material Retained on 20.0 mm Sieve	%	43
Particle Density - Assumed	Mg/m³	2.60

Maximum Dry Density	Mg/m³	**1.76**
Optimum Moisture Content	%	**14**

Remarks

Test carried out Non-Standard, grading in Zone X.

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH313
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1020712
Soil Description	Brown sandy gravelly CLAY M/G			Depth	0.50 m
Specimen Ref.	2	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.4, 2.5kg rammer			Keylab ID	WA1020712
				Compaction Test Reference/No.	

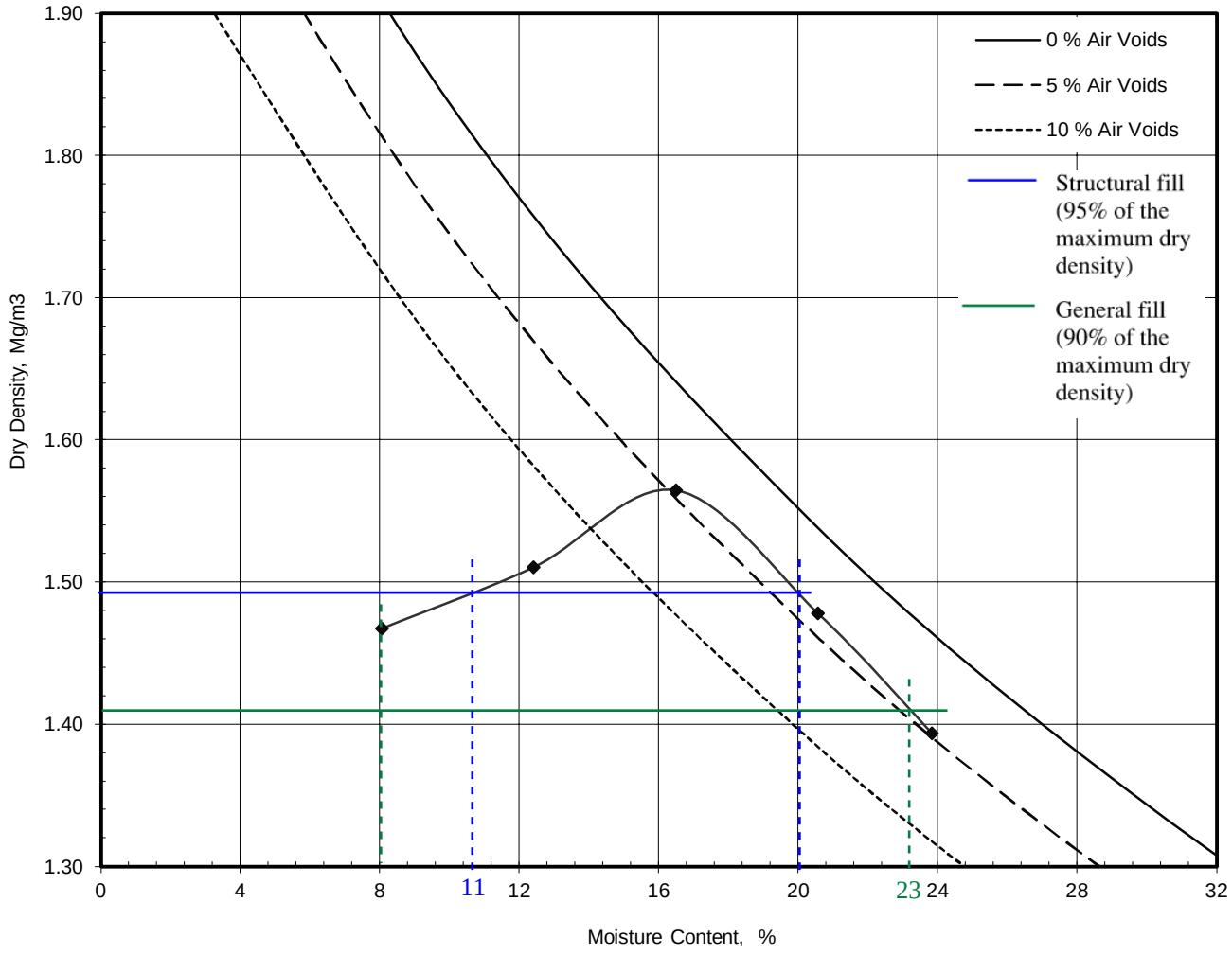


Preparation		Material used was air dried
Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	4
Material Retained on 20.0 mm Sieve	%	13
Particle Density - Assumed	Mg/m³	2.67

Maximum Dry Density	Mg/m³	**1.75**
Optimum Moisture Content	%	**16**

Remarks

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH324
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1030367
Soil Description	Brown gravelly sandy CLAY			Depth	1.00 m
Specimen Ref.	4	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.3, 2.5kg rammer			Keylab ID	WA1030367
				Compaction Test Reference/No.	

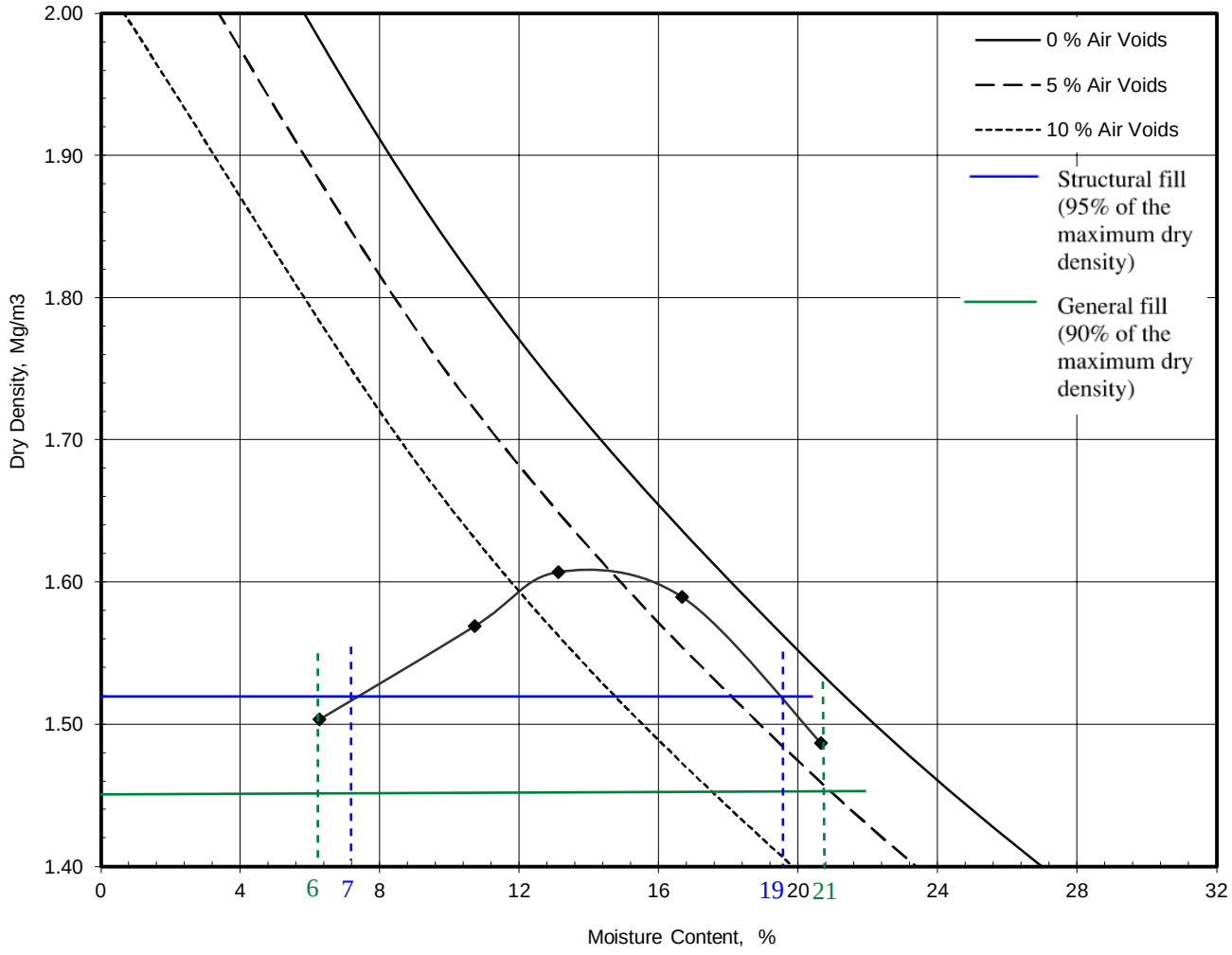


Preparation		Material used was air dried
Mould Type		1 LITRE
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	4
Particle Density - Assumed	Mg/m³	2.25

Maximum Dry Density	Mg/m³	**1.57**
Optimum Moisture Content	%	**16**

Remarks

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH324
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1030377
Soil Description	Brown gravelly sandy CLAY			Depth	2.00 m
Specimen Ref.	3	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.3, 2.5kg rammer			Keylab ID	WA1030377
				Compaction Test Reference/No.	

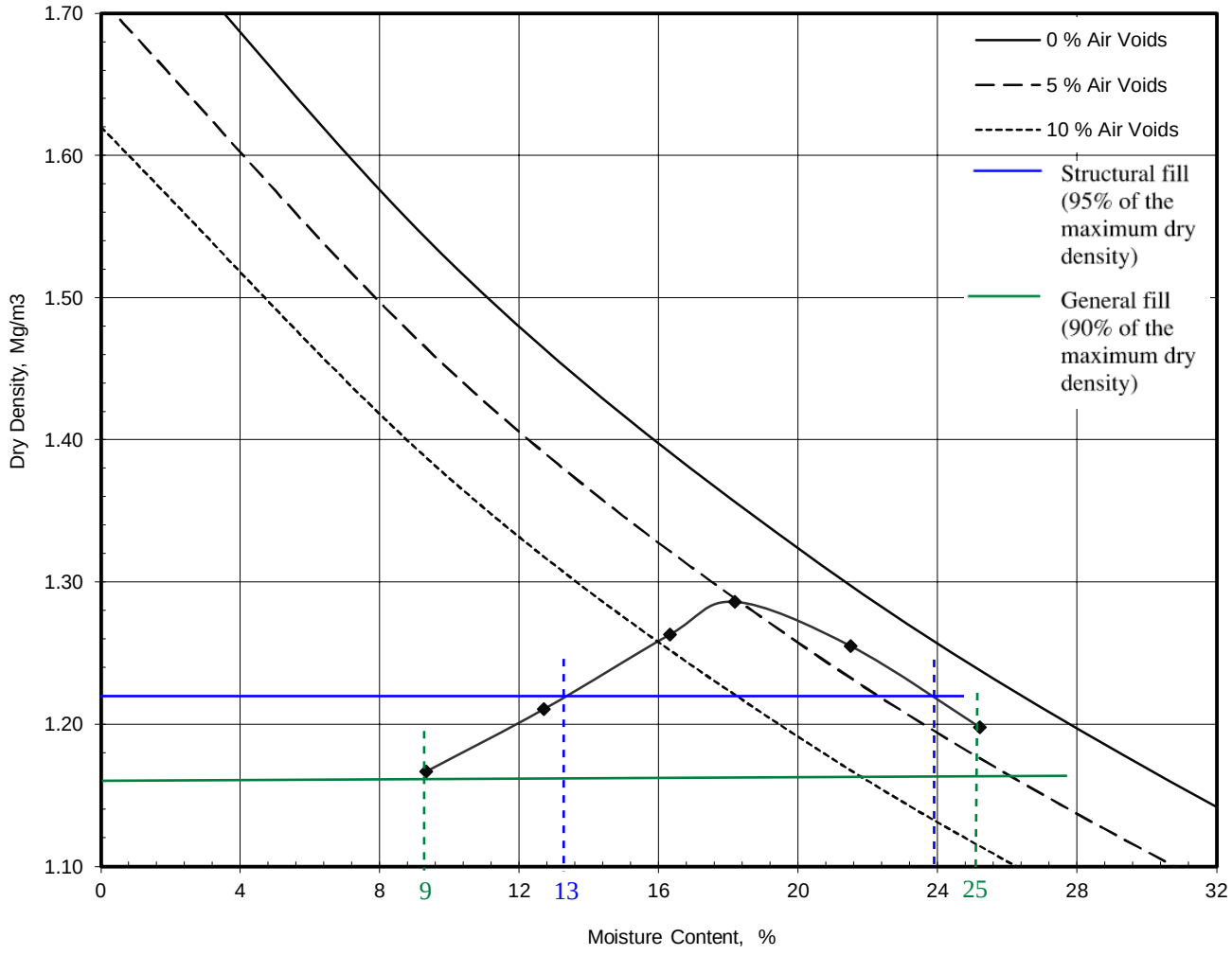


Preparation		Material used was air dried
Mould Type		1 LITRE
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.25

Maximum Dry Density	Mg/m³	**1.61**
Optimum Moisture Content	%	**14**

Remarks

bam ritchies	**Dry Density / Moisture Content Relationship Light Compaction**			Job Ref	**326R**
				Borehole / Pit No	BH328
Site Name	**Victoria North HIF Infrastructure & Enabling Works**			Sample No	WA1033831
Soil Description	Brown clayey gravelly SAND			Depth	2.00 m
Specimen Ref.	1	Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 4:1990, clause 3.3, 2.5kg rammer			Keylab ID	WA1033831
				Compaction Test Reference/No.	



Preparation		Material used was air dried
Mould Type		1 LITRE
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	10
Material Retained on 20.0 mm Sieve	%	25
Particle Density - Assumed	Mg/m³	1.80

Maximum Dry Density	Mg/m³	**1.29**
Optimum Moisture Content	%	**18**

Remarks

Test carried out Non-Standard, grading Zone X

The following sections present Geotechnical information taken from the GIR, which is used to assess material parameters for the design work undertaken. Charts are presented to highlight key trends and notes are presented for the method for deriving and correlating material parameters. Estimated parameters are based on chart trends and data after outliers are removed. The following section presents: SPT results, Atterberg results and Shear strength test results.

SPT results

Red Bank Plateau									
Stratum	**No. of tests**	**No. of outliers**	**Lower bound SPT N**	**Upper bound SPT N**	**Average SPT N (excluding outliers)**	**Average SPT N 60 (excluding outliers)**	**Avg. phi (degrees)**	**Cu (kPa)**	**Avg. E' (kPa)**
Cohesive made ground	42	2	2	26	7	7		35	15 000
Granular made ground	78	3	2	27	10	10	30		15 000
Cohesive glacial till	19	7	12	53	20	21		100	44 000
Granular Glacial till	38	8	8	50	15	16	31		24 000
Red Bank Terrace									
Stratum	**No. of tests**	**No. of outliers**	**Lower bound SPT N**	**Upper bound SPT N**	**Average SPT N (excluding outliers)**	**Average SPT N 60 (excluding outliers)**	**Avg. phi (degrees)**	**Cu (kPa)**	**Avg. E' (kPa)**
Cohesive made ground	13	2	6	27	10	10		50	20 000
Granular made ground	36	3	2	27	9	9	30		14 000
Cohesive glacial till	2	0	12	15	14	14		70	30 000
Granular Glacial till	8	1	12	43	20	21	33		30 000
St. Catherine's Wood									

Stratum	No. of tests	No. of outliers	Lower bound SPT N	Upper bound SPT N	Average SPT N (excluding outliers)	Average SPT N 60 (excluding outliers)	Avg. phi (degrees)	Cu (kPa)	Avg. E' (kPa)
Cohesive made ground	39	3	2	25	12	12		60	26 000
Granular made ground	37	1	2	28	10	10	30		15 000
Granular Glacial till	3	0	19	28	22	23	34		34 000
Granular Alluvium	18	2	2	11	7	7	29		11 000
Plateau Slope regrade zone									
Stratum	**No. of tests**	**No. of outliers**	**Lower bound SPT N**	**Upper bound SPT N**	**Average SPT N (excluding outliers)**	**Average SPT N 60 (excluding outliers)**	**Avg. phi (degrees)**	**Cu (kPa)**	**Avg. E' (kPa)**
Cohesive made ground	13	0	2	12	7	7		35	15 000
Granular made ground	53	2	2	20	8	9	30		13 000
P&P slope zone									
Stratum	**No. of tests**	**No. of outliers**	**Lower bound SPT N**	**Upper bound SPT N**	**Average SPT N (excluding outliers)**	**Average SPT N 60 (excluding outliers)**	**Avg. phi (degrees)**	**Cu (kPa)**	**Avg. E' (kPa)**
Cohesive made ground	31	2	2	25	10	10		50	22 000
Granular made ground	5	1	4	8	7	7	29		10 000

Parameters	Method of deriving	Source
Phi' (Granular)	$27.1 + (0.3*SPTN) - (0.00054*SPTN^2)$	Wolf 1989
Undrained shear strength (Cohesive)	5*SPTN	CIRIA 143 - Stroud
E' (Granular)	1.5*SPTN (MPa)	CIRIA 143 - Stroud
E' (Cohesive)	E' = 0.73.(600.Cu)	Barnes f.g 9.8 - Eu vs SPT, PI, OCR

Atterberg Limits

Red Bank Plateau			
Stratum	**No. of tests**	**PI Avg.**	**phi (degrees)**
Cohesive made ground	41	15	27
Cohesive glacial till	24	15	27
Redbank Terrace			
Stratum	**No. of tests**	**PI Avg.**	**phi (degrees)**
Cohesive made ground	5	14	28
St Catherine's Wood			
Stratum	**No. of tests**	**PI Avg.**	**phi (degrees)**
Cohesive made ground	31	15	27
Plateau Slope			
Stratum	**No. of tests**	**PI Avg.**	**phi (degrees)**
Cohesive made ground	7	15	27
P&P Slope			
Stratum	**No. of tests**	**PI Avg.**	**phi (degrees)**
Cohesive made ground	17	15	27

Parameters	Method of deriving	Source	Notes
Phi' (Cohesive)	$42 - 12.5\log_{10}(PI)$	BS8002 - Terzagi and peck	

4.3.1.4.8 For fine soils, the characteristic constant volume (also known as critical state) effective angle of shearing resistance ($\varphi'_{cv,k}$) may, in the absence of reliable test results, be estimated from:

$$\varphi'_{cv,k} = (42° - 12.5\log_{10} I_P) \text{ for } 5\% \le I_P \le 100\% \quad (8)$$

where:

I_p is the soil's plasticity index (entered as a %).

NOTE 1 Equation (8) is based on an expression proposed by Santamarina and Diaz-Rodriguez [23], which fits data presented by Terzaghi, Peck and Mesri [24].

NOTE 2 Values of $\varphi'_{cv,k}$ based on this expression are given in Table 2.

1.1 Quick Undrained tests results

Stratum	average Cu (MG-CO)	Average Cu (GTD-CO)	Notes
Redbank Plateau	35	n/a	MG-CO Cu is similar for QUT result and SPT estimate
Redbank Terrace	12	24	MG-CO value Based on one result – not used. SPT estimate disagrees
St Catherine's Wood	51	n/a	MG-CO Cu is similar for QUT result and SPT estimate
Plot RB02 and RB03 regrade zone	26	n/a	MG-CO Cu is similar for QUT result and SPT estimate
P&P slope zone	51	n/a	MG-CO Cu is similar for QUT result and SPT estimate

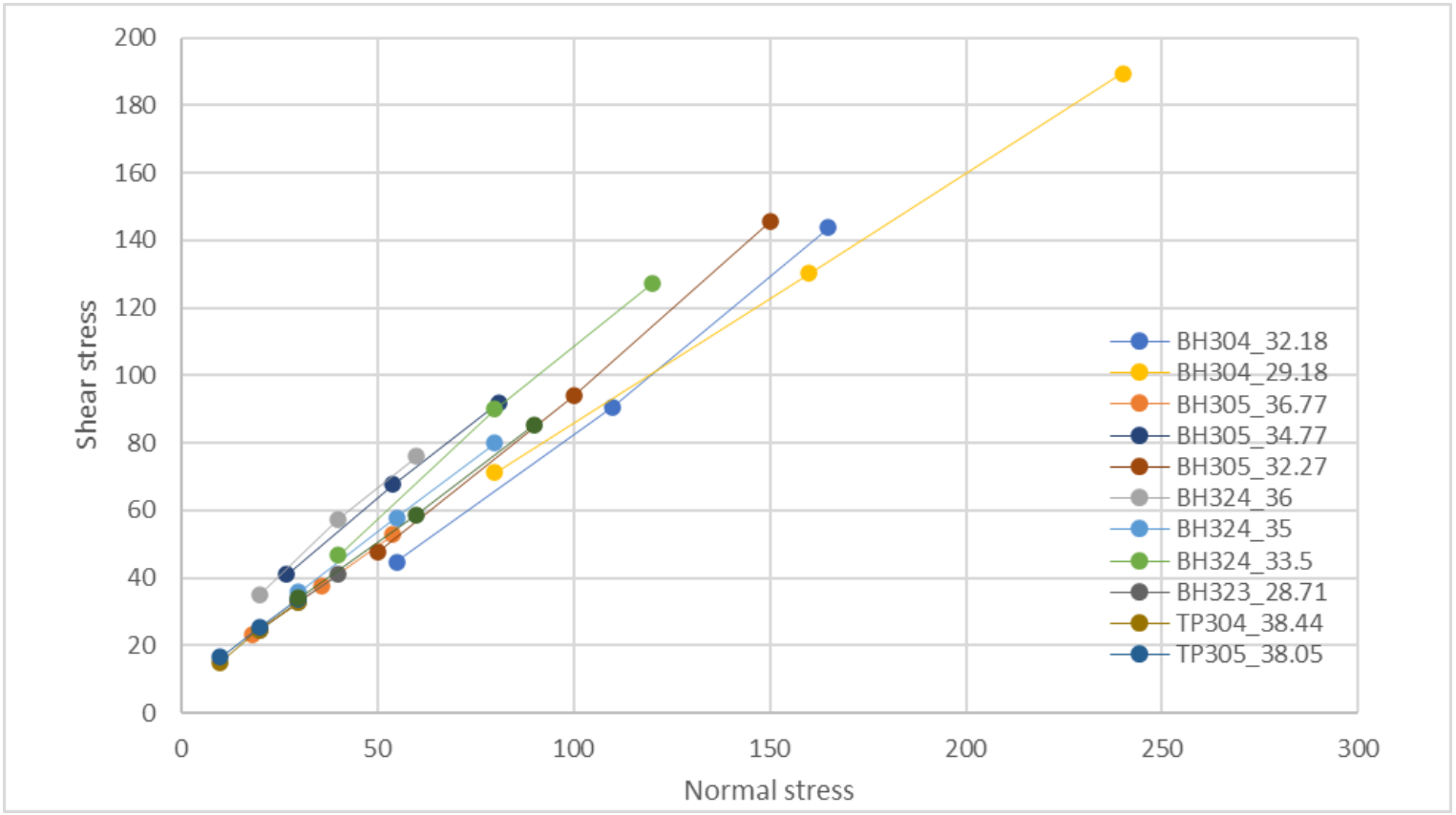
1.2 Undrained triaxial Consolidation results – P&P slope cohesive made ground

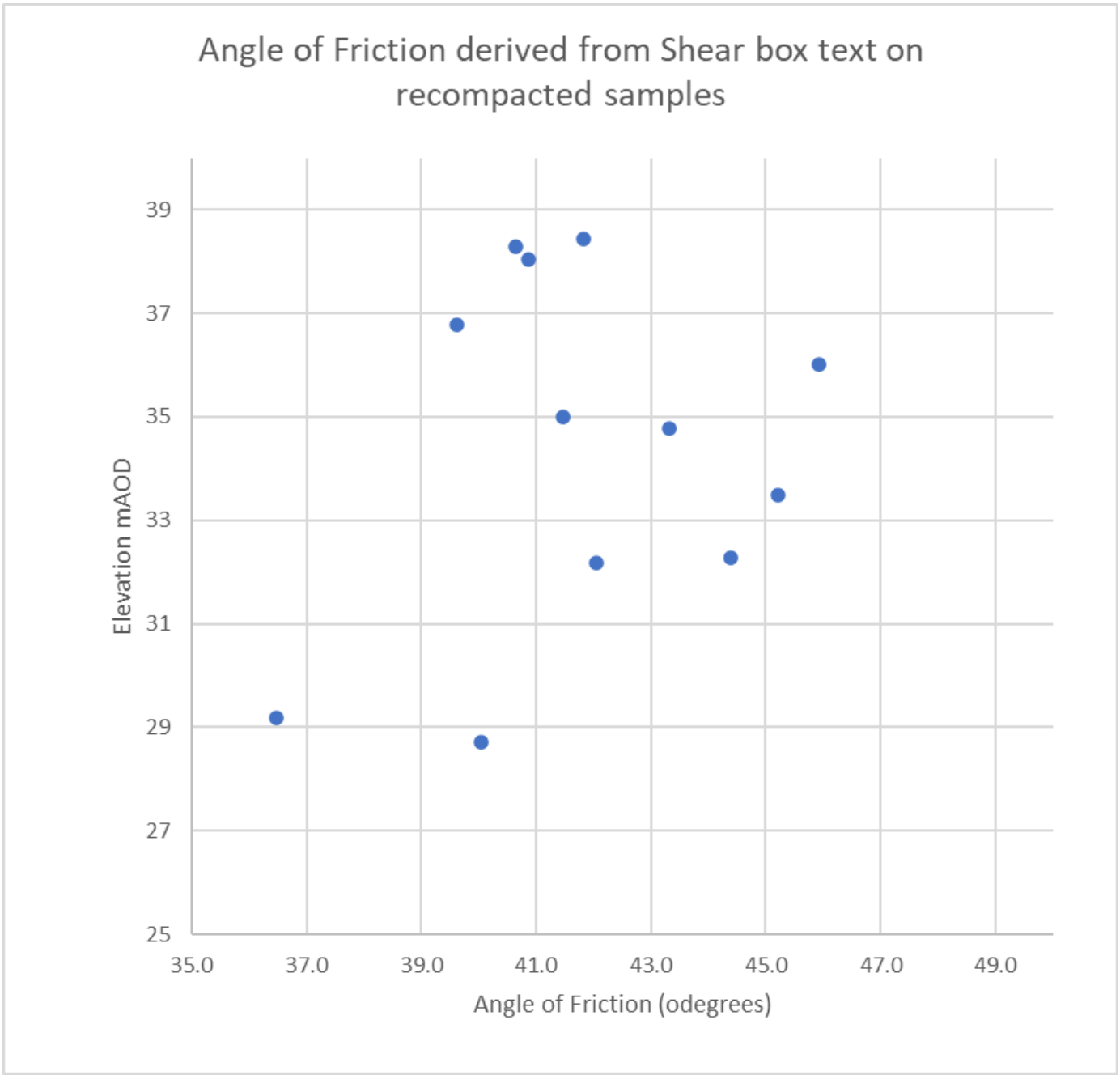
Hole ID	Geol code	Elevation	Sample depth	Sample type	Triaxial normal stress s'	Triaxial shear stress t
BH301B	MG-CO	37.96	4	UT	123.5	62.5
BH301B	MG-CO	34.46	7.5	UT	229.5	102.5
BH301B	MG-CO	29.96	12	UT	427	242
BH302	MG-CO	35.26	7.5	UT	100.5	47.5
BH302	MG-CO	35.26	7.5	UT	191.5	87.5
BH302	MG-CO	35.26	7.5	UT	315.5	146.5
BH315	MG-CO	37.26	2	UT	100.5	49.5
BH315	MG-CO	35.26	4	UT	125.5	56.5
BH315	MG-CO	31.76	7.5	UT	245	119

1.3 Shear box results

BH ID and elevations	Hole type	Zone	Geology	Sample depth	Normal stress	Peak shear stress	Estimated Phi
BH304_32.18	CP	Redbank Plateau,Slope regrade area	MG-G	9	55	44.7	42.0
BH304_32.18	CP	Redbank Plateau,Slope regrade area	MG-G	9	110	90.7	
BH304_32.18	CP	Redbank Plateau,Slope regrade area	MG-G	9	165	143.9	
BH304_29.18	CP	Redbank Plateau,Slope regrade area	MG-G	12	80	71.1	36.5
BH304_29.18	CP	Redbank Plateau,Slope regrade area	MG-G	12	160	130.2	
BH304_29.18	CP	Redbank Plateau,Slope regrade area	MG-G	12	240	189.4	
BH305_36.77	CP	Redbank Plateau,Slope regrade area	MG-G	3	18	23.1	39.6
BH305_36.77	CP	Redbank Plateau,Slope regrade area	MG-G	3	36	37.8	
BH305_36.77	CP	Redbank Plateau,Slope regrade area	MG-G	3	54	52.9	
BH305_34.77	CP	Redbank Plateau,Slope regrade area	MG-G	5	27	41	43.3
BH305_34.77	CP	Redbank Plateau,Slope regrade area	MG-G	5	54	67.7	
BH305_34.77	CP	Redbank Plateau,Slope regrade area	MG-G	5	81	91.9	
BH305_32.27	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	50	47.6	44.4
BH305_32.27	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	100	94	
BH305_32.27	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	150	145.5	
BH324_36	CP	Redbank Plateau,Slope regrade area	MG-G	5	20	34.8	45.9
BH324_36	CP	Redbank Plateau,Slope regrade area	MG-G	5	40	57.4	
BH324_36	CP	Redbank Plateau,Slope regrade area	MG-G	5	60	76.1	
BH324_35	CP	Redbank Plateau,Slope regrade area	MG-G	6	30	35.7	41.5
BH324_35	CP	Redbank Plateau,Slope regrade area	MG-G	6	55	57.9	
BH324_35	CP	Redbank Plateau,Slope regrade area	MG-G	6	80	79.9	
BH324_33.5	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	40	46.6	45.2
BH324_33.5	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	80	90.1	
BH324_33.5	CP	Redbank Plateau,Slope regrade area	MG-G	7.5	120	127.2	
BH323_28.71	WLS	St Catherine's wood zone,Slope regrade area	MG-G	1.5	20	24.3	40.0
BH323_28.71	WLS	St Catherine's wood zone,Slope regrade area	MG-G	1.5	30	32.9	
BH323_28.71	WLS	St Catherine's wood zone,Slope regrade area	MG-G	1.5	40	41.1	
TP304_38.44	TP	Redbank Plateau,Slope regrade area	MG-G	2.9	10	14.9	41.8

TP304_38.44	TP	Redbank Plateau,Slope regrade area	MG-G	2.9	20	24.5	
TP304_38.44	TP	Redbank Plateau,Slope regrade area	MG-G	2.9	30	32.8	
TP305_38.05	TP	Redbank Plateau,Slope regrade area	MG-G	3	10	16.5	40.9
TP305_38.05	TP	Redbank Plateau,Slope regrade area	MG-G	3	20	25.2	
TP305_38.05	TP	Redbank Plateau,Slope regrade area	MG-G	3	30	33.8	
TP306_38.29	TP	Redbank Plateau,Slope regrade area	MG-G	1	30	34	40.6
TP306_38.29	TP	Redbank Plateau,Slope regrade area	MG-G	1	60	58.8	
TP306_38.29	TP	Redbank Plateau,Slope regrade area	MG-G	1	90	85.5	




Angle of Friction derived from Shear box text on recompacted samples
Elevation mAOD
39
37
35
33
31
29
27
25
35.0
37.0
39.0
41.0
43.0
45.0
47.0
49.0
Angle of Friction (odegrees)

Appendix C - Geoenvironmental screening

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH101	BH101	BH102	BH102	BH103	BH103
									Sample Ref	18	4	10	2	11	2
									Easting	384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
									Northing	399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
									Hole Elevation (mOD)	43.377	43.377	42.934	42.934	42.57	42.57
									Sample Depth (mbgl)	4.8	0.8	3.5	0.3	3.2	0.3
									Sample Date	03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		1.1	1.2	1.2	7.6	1.3	5
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		9.5	5.2	9.3	16	6.1	9.5
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.8	0.2	0.8	1.1	0.7	0.5
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.2	0.9	0.2	1	0.2	0.6
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		20	5.7	16	23	19	19
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		28	50	27	140	46	100
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		53	38	91	**530**	28	230
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.11	0.16	0.17	0.44	<0.05	0.29
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		25	7.9	19	26	22	17
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		26	12	22	36	22	21
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		61	46	88	500	99	300
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.3	8.3	8.3	10.6	8.5	9.1
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.1	<0.1	<0.1	<0.1	<0.1	0.6
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.7	0.6	0.5	0.7	1.2	2.3
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.8	9.2	3.1	7.1	1.2	7.1
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na	na	na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	0.9	<0.3	0.4	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	2.7	130	2.4	<1.5	13
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2	15	240	9.3	<1.2	56
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5	57	160	22	<1.5	65
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4	350	120	120	<3.4	77
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01	1.2	<0.01	<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								BH101	BH101	BH102	BH102	BH103	BH103
Sample Ref								18	4	10	2	11	2
Easting								384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
Northing								399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
Hole Elevation (mOD)								43.377	43.377	42.934	42.934	42.57	42.57
Sample Depth (mbgl)								4.8	0.8	3.5	0.3	3.2	0.3
Sample Date								03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
Investigation								VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology								MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
Contaminant Name	**GAC**	**Units**	**Total > LOD**	**Total > GAC**	**Min**	**Max**	**Saturation Value**	**Total > Saturation**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0	<10	420	650	160	<10	210
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0						
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0	<0.9	3.7	42	<0.9	<0.9	6.8
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0	<0.5	11	110	11	<0.5	37
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0	<0.6	56	150	52	<0.6	85
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0	<1.4	670	170	250	<1.4	120
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0						
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0	<0.01	<0.01	10	<0.01	<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0						
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0						
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0						
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						
PAH														
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0	<0.03	0.17	0.11	0.65	0.04	0.3
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0	<0.03	0.04	<0.03	0.11	<0.03	0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0	0.04	3.3	0.17	6.4	0.17	1.1
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0	<0.03	0.13	0.13	0.43	0.04	0.52
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0	<0.03	0.14	<0.03	0.78	<0.03	0.09
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0	0.06	0.72	0.28	2.3	0.2	1.4
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0	0.05	2.5	0.19	5.6	0.16	1
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0	<0.03	0.17	<0.03	0.22	0.04	0.62
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0						
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0						
Pah,Total		mg/kg	No GAC	-	<0.1	100		0	0.15	12	1.2	28	0.92	6.8
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0	<0.03	0.04	<0.03	0.06	<0.03	0.05
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0	<0.03	2.2	0.08	0.96	0.05	0.44
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0	<0.03	0.49	0.07	2.1	0.06	0.29
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0	<0.03	0.18	<0.03	0.94	<0.03	0.12
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0	<0.03	0.26	0.04	2.4	0.04	0.2
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0	<0.03	0.46	0.05	2.4	0.06	0.29
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0	<0.03	0.16	<0.03	1	<0.03	0.12
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0	<0.03	0.72	0.08	2	0.06	0.35
BTEX														
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0						
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0						
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0	<0.01	<0.01	1.9	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0						
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0						
PCBs														
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0						
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								BH101	BH101	BH102	BH102	BH103	BH103
Sample Ref								18	4	10	2	11	2
Easting								384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
Northing								399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
Hole Elevation (mOD)								43.377	43.377	42.934	42.934	42.57	42.57
Sample Depth (mbgl)								4.8	0.8	3.5	0.3	3.2	0.3
Sample Date								03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
Investigation								VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology								MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
Contaminant Name	**GAC**	**Units**	**Total > LOD**	**Total > GAC**	**Min**	**Max**	**Saturation Value**	**Total > Saturation**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0						
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0						
VOCs/SVOCs														
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0						
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0						
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0						
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0						
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0						
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0						
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0						
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0						
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0						
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0						
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0						
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0						
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Hole Ref	BH101	BH101	BH102	BH102	BH103	BH103
Sample Ref	18	4	10	2	11	2
Easting	384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
Northing	399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
Hole Elevation (mOD)	43.377	43.377	42.934	42.934	42.57	42.57
Sample Depth (mbgl)	4.8	0.8	3.5	0.3	3.2	0.3
Sample Date	03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH101	BH101	BH102	BH102	BH103	BH103
									Sample Ref	18	4	10	2	11	2
									Easting	384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
									Northing	399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
									Hole Elevation (mOD)	43.377	43.377	42.934	42.934	42.57	42.57
									Sample Depth (mbgl)	4.8	0.8	3.5	0.3	3.2	0.3
									Sample Date	03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH101	BH101	BH102	BH102	BH103	BH103
									Sample Ref	18	4	10	2	11	2
									Easting	384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
									Northing	399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
									Hole Elevation (mOD)	43.377	43.377	42.934	42.934	42.57	42.57
									Sample Depth (mbgl)	4.8	0.8	3.5	0.3	3.2	0.3
									Sample Date	03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0							
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref: BH101 / Sample Ref: 18 / Easting: 384796.682 / Northing: 399802.989 / Hole Elevation (mOD): 43.377 / Sample Depth (mbgl): 4.8 / Sample Date: 03/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-CO / RB Plateau	Hole Ref: BH101 / Sample Ref: 4 / Easting: 384796.682 / Northing: 399802.989 / Hole Elevation (mOD): 43.377 / Sample Depth (mbgl): 0.8 / Sample Date: 03/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-G / RB Plateau	Hole Ref: BH102 / Sample Ref: 10 / Easting: 384763.18 / Northing: 399691.375 / Hole Elevation (mOD): 42.934 / Sample Depth (mbgl): 3.5 / Sample Date: 03/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-CO / RB Plateau	Hole Ref: BH102 / Sample Ref: 2 / Easting: 384763.18 / Northing: 399691.375 / Hole Elevation (mOD): 42.934 / Sample Depth (mbgl): 0.3 / Sample Date: 24/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-G / RB Plateau	Hole Ref: BH103 / Sample Ref: 11 / Easting: 384689.014 / Northing: 399695.588 / Hole Elevation (mOD): 42.57 / Sample Depth (mbgl): 3.2 / Sample Date: 04/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-CO / RB Plateau	Hole Ref: BH103 / Sample Ref: 2 / Easting: 384689.014 / Northing: 399695.588 / Hole Elevation (mOD): 42.57 / Sample Depth (mbgl): 0.3 / Sample Date: 04/01/19 / Investigation: VN - Phase 1 GI / Geology: MG-G / RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0						
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0						
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0						
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0						
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH101	BH101	BH102	BH102	BH103	BH103
									Sample Ref	18	4	10	2	11	2
									Easting	384796.682	384796.682	384763.18	384763.18	384689.014	384689.014
									Northing	399802.989	399802.989	399691.375	399691.375	399695.588	399695.588
									Hole Elevation (mOD)	43.377	43.377	42.934	42.934	42.57	42.57
									Sample Depth (mbgl)	4.8	0.8	3.5	0.3	3.2	0.3
									Sample Date	03/01/19	03/01/19	03/01/19	24/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0		<10	1200	1100	470	<10	460
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0		<10	740	490	320	<10	250
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH103	BH103	BH104	BH104	BH104	BH105
									Sample Ref	4	16	15	28	4	14
									Easting	384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
									Northing	399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
									Hole Elevation (mOD)	42.57	42.57	41.588	41.588	41.588	40.666
									Sample Depth (mbgl)	1	4.8	4.7	9.7	0.7	3.3
									Sample Date	04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		4.8	1.3	1.2	1.8	5.9	1.1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		11	12	8.2	19	23	10
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.5	0.8	0.7	2.1	2.8	0.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.8	0.4	0.2	0.2	0.6	0.1
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		19	24	20	22	16	18
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0			<1	<1	<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		140	9.1	33	100	300	18
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		210	13	42	75	180	12
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.26	<0.05	<0.05	0.38	0.45	<0.05
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		20	29	24	53	48	18
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	0.7	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		24	28	26	34	66	26
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		250	69	79	120	150	54
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		10	8.7	9.7	7.8	7.3	8.2
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.6	<0.1	<0.1	2.4	<0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.4	1.3	0.8	1.3	1.4	0.8
Total Organic Carbon		%	No GAC	-	<0.1	54		0		6.8	<0.5	2.2	13	29	0.6
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0			NAD	NAD	NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0			na	na	na	na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		0.4	0.4	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			<1.2	<1.2	<1.2	<1.2	<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			<3.4	<3.4	<3.4	<3.4	<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			<0.01	<0.01	<0.01	<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH103	BH103	BH104	BH104	BH104	BH105
									Sample Ref	4	16	15	28	4	14
									Easting	384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
									Northing	399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
									Hole Elevation (mOD)	42.57	42.57	41.588	41.588	41.588	40.666
									Sample Depth (mbgl)	1	4.8	4.7	9.7	0.7	3.3
									Sample Date	04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0			<10	<10	<10	<10	<10
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<0.9	<0.9	<0.9	<0.9	<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<0.5	<0.5	0.7	<0.5	<0.5
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<0.6	<0.6	4.3	<0.6	<0.6
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			<1.4	<1.4	9	<1.4	17
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0							
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<0.01	<0.01	<0.01	<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0		1700					
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			<0.03	<0.03	0.06	<0.03	<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.03	<0.03	<0.03	<0.03	<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			<0.03	0.04	0.57	0.11	<0.03
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			<0.03	<0.03	0.06	<0.03	<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			<0.03	<0.03	0.09	<0.03	<0.03
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			<0.03	0.06	0.56	0.09	<0.03
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			<0.03	0.04	0.64	0.12	<0.03
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			<0.03	<0.03	0.1	0.04	<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		22	<0.1	0.14	3.4	0.48	<0.1
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.03	<0.03	<0.03	<0.03	<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			<0.03	<0.03	0.1	<0.03	<0.03
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			<0.03	<0.03	0.24	0.05	<0.03
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			<0.03	<0.03	0.11	<0.03	<0.03
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			<0.03	<0.03	0.21	<0.03	<0.03
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			<0.03	<0.03	0.24	0.05	<0.03
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			<0.03	<0.03	0.1	<0.03	<0.03
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			<0.03	<0.03	0.25	0.07	<0.03
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.04					
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH103	BH103	BH104	BH104	BH104	BH105
									Sample Ref	4	16	15	28	4	14
									Easting	384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
									Northing	399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
									Hole Elevation (mOD)	42.57	42.57	41.588	41.588	41.588	40.666
									Sample Depth (mbgl)	1	4.8	4.7	9.7	0.7	3.3
									Sample Date	04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH103	BH103	BH104	BH104	BH104	BH105
Sample Ref					4	16	15	28	4	14
Easting					384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
Northing					399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
Hole Elevation (mOD)					42.57	42.57	41.588	41.588	41.588	40.666
Sample Depth (mbgl)					1	4.8	4.7	9.7	0.7	3.3
Sample Date					04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0		
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0		
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0		
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0		
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0		
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0		
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0		
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0		
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0		
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0		
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0		
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0		
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0		
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0		
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0		
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0		
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0		
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0		
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0		
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0		
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0		
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0		
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0		
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0		
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0		
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0		
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0		
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0		
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0		
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0		
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0		
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0		
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0		
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0		
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0		
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH103	BH103	BH104	BH104	BH104	BH105
									Sample Ref	4	16	15	28	4	14
									Easting	384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
									Northing	399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
									Hole Elevation (mOD)	42.57	42.57	41.588	41.588	41.588	40.666
									Sample Depth (mbgl)	1	4.8	4.7	9.7	0.7	3.3
									Sample Date	04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

BH103	BH103	BH104	BH104	BH104	BH105	
4	16	15	28	4	14	
384689.014	384689.014	384607.46	384607.46	384607.46	384463.735	
399695.588	399695.588	399631.24	399631.24	399631.24	399571.588	
42.57	42.57	41.588	41.588	41.588	40.666	
1	4.8	4.7	9.7	0.7	3.3	
04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19	
VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	
MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	Sample Ref	Easting	Northing	Hole Elevation (mOD)	Sample Depth (mbgl)	Sample Date	Investigation	Geology	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
									BH103	4	384689.014	399695.588	42.57	1	04/01/19	VN - Phase 1 GI	MG-G						
									BH103	16	384689.014	399695.588	42.57	4.8	04/01/19	VN - Phase 1 GI	MM						
									BH104	15	384607.46	399631.24	41.588	4.7	04/01/19	VN - Phase 1 GI	MG-CO						
									BH104	28	384607.46	399631.24	41.588	9.7	07/01/19	VN - Phase 1 GI	MG-CO						
									BH104	4	384607.46	399631.24	41.588	0.7	04/01/19	VN - Phase 1 GI	MG-G						
									BH105	14	384463.735	399571.588	40.666	3.3	08/01/19	VN - Phase 1 GI	GTD - G						
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0															
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0															
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0															
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0															
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0															
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0															
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0															
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0															
Aluminium		mg/kg	No GAC	-	8270	9680		0															
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0															
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0										<0.01	<0.01	<0.01	<0.01	<0.01	
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0															
Asbestos in soil		-	No GAC	-				0															
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0															
Barium		mg/kg	No GAC	-	68	198		0															
Calcium		mg/kg	No GAC	-	8540	8540		0															
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0															
Cobalt		mg/kg	No GAC	-	4	12		0															
Coronene		mg/kg	No GAC	-	0.04	0.12		0															
Cresols		mg/kg	No GAC	-				0															
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0															
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0															
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0															
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0															
EPH CWG GCxGC ID (for FID		-	No GAC	-				0															
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0															
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0															
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0															
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0															
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0															
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0															
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0															
Iron		mg/kg	No GAC	-	43300	43300		0															
Loss on ignition		%	No GAC	-	1.3	24		0										11					
Magnesium		mg/kg	No GAC	-	1000	1000		0															
Manganese		mg/kg	No GAC	-	63	595		0															
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0															
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0															
Molybdenum		mg/kg	No GAC	-	<1	8		0															
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0															
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0															
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0										<0.01					
Perylene		mg/kg	No GAC	-	<0.1	25.6		0															
Potassium		mg/kg	No GAC	-	500	500		0															
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0															
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0															
SVOC TICs (Tentatively Identified		-	No GAC	-				0															
Silver		mg/kg	No GAC	-	<10	<10		0															
Sulphide		mg/kg	No GAC	-	<5	530		0															

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	<5		0
Titanium		mg/kg	No GAC	-	67	420		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-	76	101		0
Total Aromatics		mg/kg	No GAC	-	<1	6340		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-				0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols, Total		mg/kg	No GAC	-	<5	<5		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Contaminant Name	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Hole Ref	BH103	BH103	BH104	BH104	BH104	BH105
Sample Ref	4	16	15	28	4	14
Easting	384689.014	384689.014	384607.46	384607.46	384607.46	384463.735
Northing	399695.588	399695.588	399631.24	399631.24	399631.24	399571.588
Hole Elevation (mOD)	42.57	42.57	41.588	41.588	41.588	40.666
Sample Depth (mbgl)	1	4.8	4.7	9.7	0.7	3.3
Sample Date	04/01/19	04/01/19	04/01/19	07/01/19	04/01/19	08/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	MG-G	MM	MG-CO	MG-CO	MG-G	GTD - G
Total Aliphatics and Aromatics C5-C35	<10	<10	15	<10	17	
Total Aromatics C5-C35	<10	<10	15	<10	17	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH105	TP101	TP102	TP102	TP103	TP103
									Sample Ref	5	2	6	2	11	7
									Easting	384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
									Northing	399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
									Hole Elevation (mOD)	40.666	43.457	42.621	42.621	43.178	43.178
									Sample Depth (mbgl)	0.7	0.3	1.2	0.3	1.8	1
									Sample Date	04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		1.5	1.3	1.2	<1	<1	<1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		11	6.8	10	6.1	8.1	4.1
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.9	1	1	0.2	0.8	0.6
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.2	0.4	0.3	0.4	0.2	0.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		23	21	29	14	22	8.7
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		31	71	46	21	27	35
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		26	26	17	17	13	20
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.11	<0.05	<0.05	<0.05	<0.05	0.07
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		27	22	30	10	29	12
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		27	31	31	15	27	14
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		97	95	89	59	65	67
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.3	8.9	8.5	8.5	8.1	8.3
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.2	1	0.7	0.6	0.5	0.6
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.6	2.9	1.6	3.2	2	2.8
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD	NAD		
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na	na		
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	0.4	<0.3	0.5	<0.3	0.4
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH105	TP101	TP102	TP102	TP103	TP103
									Sample Ref	5	2	6	2	11	7
									Easting	384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
									Northing	399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
									Hole Elevation (mOD)	40.666	43.457	42.621	42.621	43.178	43.178
									Sample Depth (mbgl)	0.7	0.3	1.2	0.3	1.8	1
									Sample Date	04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0		<10	<10	<10	<10	<10	<10
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0							
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0					79		
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		<0.03	0.28	<0.03	0.46	<0.03	0.05
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		<0.03	0.06	<0.03	0.05	<0.03	<0.03
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		<0.03	0.12	<0.03	0.11	<0.03	0.05
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		0.04	0.28	<0.03	0.45	<0.03	0.04
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		0.12	1.5	<0.1	2.1	<0.1	0.15
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03	0.04	<0.03	0.05	<0.03	<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		<0.03	0.2	<0.03	0.22	<0.03	<0.03
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		<0.03	0.1	<0.03	0.15	<0.03	<0.03
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		0.05	0.06	<0.03	0.05	<0.03	<0.03
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		<0.03	0.08	<0.03	0.1	<0.03	<0.03
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		0.04	0.13	<0.03	0.19	<0.03	<0.03
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		<0.03	0.05	<0.03	0.07	<0.03	<0.03
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		<0.03	0.12	<0.03	0.21	<0.03	<0.03
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0					<0.04		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								BH105	TP101	TP102	TP102	TP103	TP103
Sample Ref								5	2	6	2	11	7
Easting								384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
Northing								399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
Hole Elevation (mOD)								40.666	43.457	42.621	42.621	43.178	43.178
Sample Depth (mbgl)								0.7	0.3	1.2	0.3	1.8	1
Sample Date								04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
Investigation								VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology								MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0						
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0						
VOCs/SVOCs														
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0						
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0						
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0						
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0						
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0						
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0						
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0						
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0						
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0						
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0						
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0						
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0						
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0						
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0						
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0						
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0						
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH105	TP101	TP102	TP102	TP103	TP103
Sample Ref					5	2	6	2	11	7
Easting					384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
Northing					399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
Hole Elevation (mOD)					40.666	43.457	42.621	42.621	43.178	43.178
Sample Depth (mbgl)					0.7	0.3	1.2	0.3	1.8	1
Sample Date					04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0		
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0		
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0		
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0		
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0		
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0		
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0		
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0		
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0		
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0		
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0		
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0		
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0		
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0		
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0		
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0		
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0		
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0		
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0		
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0		
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0		
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0		
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0		
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0		
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0		
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0		
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0		
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0		
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0		
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0		
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0		
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0		
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0		
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0		
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0		
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0		
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH105	TP101	TP102	TP102	TP103	TP103
									Sample Ref	5	2	6	2	11	7
									Easting	384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
									Northing	399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
									Hole Elevation (mOD)	40.666	43.457	42.621	42.621	43.178	43.178
									Sample Depth (mbgl)	0.7	0.3	1.2	0.3	1.8	1
									Sample Date	04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH105	TP101	TP102	TP102	TP103	TP103
Sample Ref					5	2	6	2	11	7
Easting					384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
Northing					399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
Hole Elevation (mOD)					40.666	43.457	42.621	42.621	43.178	43.178
Sample Depth (mbgl)					0.7	0.3	1.2	0.3	1.8	1
Sample Date					04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

BH105	TP101	TP102	TP102	TP103	TP103
5	2	6	2	11	7
384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
40.666	43.457	42.621	42.621	43.178	43.178
0.7	0.3	1.2	0.3	1.8	1
04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1.3					
0.03					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH105	TP101	TP102	TP102	TP103	TP103
									Sample Ref	5	2	6	2	11	7
									Easting	384463.735	384759.647	384698.516	384698.516	384772.82	384772.82
									Northing	399571.588	399818.495	399742.661	399742.661	399769.313	399769.313
									Hole Elevation (mOD)	40.666	43.457	42.621	42.621	43.178	43.178
									Sample Depth (mbgl)	0.7	0.3	1.2	0.3	1.8	1
									Sample Date	04/01/19	03/01/19	03/01/19	03/01/19	03/01/19	03/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-CO	MG-G-G	GTD - CO	MG-G	GTD - CO	GTD - G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0		<10	<10	<10	<10	<10	<10
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0		<10	<10	<10	<10	<10	<10
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
									Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		3.8	1.2	7.9	4.1	3	4.8
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		23	12	37	28	**71**	19
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		1.5	0.9	1	**2.6**	**2.1**	**2**
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.7	0.2	0.4	0.5	0.4	0.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		48	23	36	19	15	18
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		150	43	130	300	110	150
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		210	39	100	**1300**	180	**330**
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.34	0.32	<0.05	18	1.1	1.2
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		32	29	33	39	29	38
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		160	33	74	53	40	43
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		180	62	130	310	93	99
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.7	7.2	7.6	7.6	8.2	7.6
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.2	0.2	0.1	0.8	0.2	0.2
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.4	1.2	0.8	0.7	1	0.7
Total Organic Carbon		%	No GAC	-	<0.1	54		0		18	4.7	12	27	17	13
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD		NAD	NAD		NAD
Asbestos Analysts Comments		---	No GAC	-				0		na		na	na		na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		0.8	0.4	0.5	0.5	0.5	0.6
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	<1.5	<1.5	<1.5		<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		16	<1.2	<1.2	<1.2		<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		72	<1.5	<1.5	<1.5		<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		230	<3.4	<3.4	<3.4		<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01	<0.01	<0.01		<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01	<0.01	<0.01		<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01	<0.01	<0.01		<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
									Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0		320	<10	<10	<10		<10
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		12	<0.9	13	<0.9		<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		25	<0.5	19	<0.5		<0.5
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		85	<0.6	39	<0.6		<0.6
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		200	<1.4	68	<1.4		<1.4
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0							
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01		<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01	<0.01	<0.01	<0.01		<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						38	
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			<0.03	0.59	0.04		<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.03	0.04	<0.03		<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			0.03	2.5	0.35		0.27
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			<0.03	0.48	<0.03		<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			<0.03	0.1	0.08		0.07
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			<0.03	2.5	0.26		0.22
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			0.03	2.5	0.39		0.3
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		<0.01	<0.03	0.28	<0.03		0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0			<0.1	12	2	9.9	1.6
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.03	<0.03	<0.03		<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			<0.03	0.61	0.04		0.05
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			<0.03	0.7	0.15		0.12
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			<0.03	0.15	0.11		0.1
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			<0.03	0.38	0.13		0.11
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			<0.03	0.5	0.16		0.13
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			<0.03	0.17	0.06		0.05
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			<0.03	0.78	0.2		0.14
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		<0.01					
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		<0.01					
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0						<0.04	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
									Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0		<0.01					
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0		<0.01					
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0		<0.01					
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0		<0.01					
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0		<0.01					
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0		<0.01					
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
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									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0							
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		<0.01					
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0		<0.01					
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0							
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0							
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0							
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0							
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0							
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0							
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0							
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		<0.01					
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0							
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0							
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0							
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0							
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.01					
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0		<0.01					
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0							
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0		<0.01					
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		<0.01					
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0		<0.01					
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.01					
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
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									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
									Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0							
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
Sample Ref	2	8	2	2	5	11
Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0						
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0						
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0	<0.01	<0.01	<0.01	<0.01		<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0					11	
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0					<0.01	
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP104	TP107	TP108	TP109	TP109	TP109
									Sample Ref	2	8	2	2	5	11
									Easting	384780.328	384737.823	384655.011	384661.431	384661.431	384661.431
									Northing	399749.164	399704.019	399693.93	399650.774	399650.774	399650.774
									Hole Elevation (mOD)	43.131	42.764	42.312	41.958	41.958	41.958
									Sample Depth (mbgl)	0.3	1.2	0.3	0.3	1.3	3.3
									Sample Date	03/01/19	03/01/19	04/01/19	04/01/19	04/01/19	04/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0		650	<10	140	<10		<10
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0		320	<10	140	<10		<10
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP110	TP111	TP111	TP112	TP112	TP115
									Sample Ref	5	8	2	2	8	2
									Easting	384638.835	384592.029	384592.029	384552.675	384552.675	384456.531
									Northing	399640.942	399655.215	399655.215	399614.062	399614.062	399526.838
									Hole Elevation (mOD)	41.427	41.467	41.467	40.83	40.83	40.513
									Sample Depth (mbgl)	1.3	2.5	0.3	0.3	2.3	0.3
									Sample Date	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		11	<1	4.3	55	20	12
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		34	4.5	18	19	44	40
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		1.9	0.6	0.9	2.2	1.6	2.2
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.6	0.1	0.6	0.3	0.3	0.4
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		21	13	26	18	18	25
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1		<1	<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		300	14	86	270	150	300
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		520	12	71	290	210	460
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		1.6	<0.05	0.25	0.45	0.29	0.63
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		38	15	28	38	35	45
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		59	16	74	54	46	76
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		240	28	180	120	91	130
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.3	7.7	7.8	6.1	6.5	6.5
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.5	<0.1	<0.1	<0.1	<0.1	0.3
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.7	0.6	0.7	0.7	0.7	0.9
Total Organic Carbon		%	No GAC	-	<0.1	54		0		28	0.5	12	13	11	27
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD		NAD	NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na		na	na	na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	0.4	<0.3	<0.3	1	0.5
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	<1.5	<1.5	<1.5		<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2	<1.2	<1.2	<1.2		<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5	<1.5	<1.5	<1.5		<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4	<3.4	<3.4	<3.4		<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01	<0.01	<0.01		<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01	<0.01	<0.01		<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01	<0.01	<0.01		<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0
PAH								
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0
Pah,Total		mg/kg	No GAC	-	<0.1	100		0
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0
BTEX								
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0
PCBs								
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0

TP110	TP111	TP111	TP112	TP112	TP115	
5	8	2	2	8	2	
384638.835	384592.029	384592.029	384552.675	384552.675	384456.531	
399640.942	399655.215	399655.215	399614.062	399614.062	399526.838	
41.427	41.467	41.467	40.83	40.83	40.513	
1.3	2.5	0.3	0.3	2.3	0.3	
07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	
VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	
MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
<10	<10	<10	<10		<10	
<0.9	<0.9	<0.9	<0.9		<0.9	
<0.5	<0.5	<0.5	<0.5		<0.5	
<0.6	<0.6	<0.6	<0.6		<0.6	
<1.4	<1.4	<1.4	<1.4		<1.4	
<0.01	<0.01	<0.01	<0.01		<0.01	
<0.01	<0.01	<0.01	<0.01		<0.01	
				31		
0.2	<0.03	<0.03	<0.03		0.05	
<0.03	<0.03	<0.03	<0.03		0.04	
1.2	<0.03	0.35	0.12		1	
0.2	<0.03	<0.03	<0.03		0.04	
0.11	<0.03	0.07	<0.03		0.15	
1.5	<0.03	0.16	0.11		0.54	
1.2	<0.03	0.4	0.1		1	
0.19	<0.03	<0.03	0.04		0.09	
6.5	<0.1	1.8	0.52	2.2	5.5	
<0.03	<0.03	<0.03	<0.03		0.04	
0.35	<0.03	0.09	<0.03		0.26	
0.36	<0.03	0.16	0.04		0.45	
0.13	<0.03	0.07	<0.03		0.18	
0.24	<0.03	0.1	<0.03		0.39	
0.32	<0.03	0.17	0.05		0.55	
0.13	<0.03	0.08	<0.03		0.19	
0.4	<0.03	0.2	0.06		0.49	
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
				<0.04		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP110	TP111	TP111	TP112	TP112	TP115
									Sample Ref	5	8	2	2	8	2
									Easting	384638.835	384592.029	384592.029	384552.675	384552.675	384456.531
									Northing	399640.942	399655.215	399655.215	399614.062	399614.062	399526.838
									Hole Elevation (mOD)	41.427	41.467	41.467	40.83	40.83	40.513
									Sample Depth (mbgl)	1.3	2.5	0.3	0.3	2.3	0.3
									Sample Date	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP110	TP111	TP111	TP112
Sample Ref					5	8	2	2
Easting					384638.835	384592.029	384592.029	384552.675
Northing					399640.942	399655.215	399655.215	399614.062
Hole Elevation (mOD)					41.427	41.467	41.467	40.83
Sample Depth (mbgl)					1.3	2.5	0.3	0.3
Sample Date					07/01/19	07/01/19	07/01/19	07/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-G	GTD - G	MG-G	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP110	TP111	TP111	TP112	TP112	TP115
									Sample Ref	5	8	2	2	8	2
									Easting	384638.835	384592.029	384592.029	384552.675	384552.675	384456.531
									Northing	399640.942	399655.215	399655.215	399614.062	399614.062	399526.838
									Hole Elevation (mOD)	41.427	41.467	41.467	40.83	40.83	40.513
									Sample Depth (mbgl)	1.3	2.5	0.3	0.3	2.3	0.3
									Sample Date	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP110	TP111	TP111	TP112
Sample Ref					5	8	2	2
Easting					384638.835	384592.029	384592.029	384552.675
Northing					399640.942	399655.215	399655.215	399614.062
Hole Elevation (mOD)					41.427	41.467	41.467	40.83
Sample Depth (mbgl)					1.3	2.5	0.3	0.3
Sample Date					07/01/19	07/01/19	07/01/19	07/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-G	GTD - G	MG-G	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

TP110	TP111	TP111	TP112	TP112	TP115	
5	8	2	2	8	2	
384638.835	384592.029	384592.029	384552.675	384552.675	384456.531	
399640.942	399655.215	399655.215	399614.062	399614.062	399526.838	
41.427	41.467	41.467	40.83	40.83	40.513	
1.3	2.5	0.3	0.3	2.3	0.3	
07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	
VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	
MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
		<0.01				<0.01
					8.1	
					<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP110	TP111	TP111	TP112	TP112	TP115
									Sample Ref	5	8	2	2	8	2
									Easting	384638.835	384592.029	384592.029	384552.675	384552.675	384456.531
									Northing	399640.942	399655.215	399655.215	399614.062	399614.062	399526.838
									Hole Elevation (mOD)	41.427	41.467	41.467	40.83	40.83	40.513
									Sample Depth (mbgl)	1.3	2.5	0.3	0.3	2.3	0.3
									Sample Date	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19	07/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0		<10	<10	<10	<10		<10
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0		<10	<10	<10	<10		<10
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
									Sample Ref	5	11	3	7	4	7
									Easting	384456.531	384456.531	384762.04	384723.888	384723.888	384689.078
									Northing	399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
									Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
									Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
									Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		8.2	12	1	1.4	2.2	<1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		25	**40**	5.5	8.4	15	6.6
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		**3.9**	**2.3**	<0.2	0.9	1.5	0.5
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.3	0.5	0.3	0.4	0.6	0.1
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		27	17	11	17	16	14
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0			<1	<1		<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		260	310	33	56	120	18
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		190	**520**	27	48	140	9.8
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.44	1	<0.05	0.16	0.45	<0.05
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		50	40	9.8	21	30	18
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		58	61	18	25	37	18
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		88	180	65	83	190	41
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		6.5	6.9	8.6	8	8.1	8.1
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.4	**68**	0.1	<0.1	0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1	0.5	0.2	0.4	0.7	0.4
Total Organic Carbon		%	No GAC	-	<0.1	54		0		17	32	0.3	0.8	1.4	0.4
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0			NAD	NAD		NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0			na	na		na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		0.4	0.4	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			<1.5	<1.5		<1.5	<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			<1.2	<1.2		<1.2	<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			<1.5	<1.5		<1.5	<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			<3.4	<3.4		<3.4	<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2							<3.4
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01	<0.01		<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			<0.01	<0.01		<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			<0.01	<0.01		<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
									Sample Ref	5	11	3	7	4	7
									Easting	384456.531	384456.531	384762.04	384723.888	384723.888	384689.078
									Northing	399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
									Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
									Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
									Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0			<10	<10		<10	
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<0.9	<0.9		<0.9	<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<0.5	<0.5		0.6	<0.5
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<0.6	<0.6		7.9	<0.6
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			<1.4	<1.4		44	<1.4
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0							<1.4
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01	<0.01		<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<0.01	<0.01		<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0		210					
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			0.08	<0.03		0.29	<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			0.06	<0.03		<0.03	<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			1.2	0.32		1.9	<0.03
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			0.06	<0.03		0.29	<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			0.2	0.05		0.12	<0.03
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			0.71	0.14		2.2	<0.03
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			1.2	0.26		1.8	<0.03
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			0.12	0.03		0.27	<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		14	6.7	1.5		9.3	<0.1
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			0.06	<0.03		0.06	<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			0.33	0.18		0.38	<0.03
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			0.53	0.09		0.49	<0.03
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			0.23	0.06		0.14	<0.03
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			0.5	0.07		0.31	<0.03
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.67	0.13		0.39	<0.03
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			0.24	0.05		0.14	<0.03
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.58	0.14		0.58	<0.03
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.04					
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
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									Northing	399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
									Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
									Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
									Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP115	TP115	BH201	BH202
Sample Ref					5	11	3	7
Easting					384456.531	384456.531	384762.04	384723.888
Northing					399526.838	399526.838	399820.851	399716.141
Hole Elevation (mOD)					40.513	40.513	43.4	42.663
Sample Depth (mbgl)					1.3	3.3	0.3	2.2
Sample Date					07/01/19	07/01/19	22/03/21	23/02/21
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604
Geology					MG-G-G	MG-G-G	MG-G	MG-CO
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
									Sample Ref	5	11	3	7	4	7
									Easting	384456.531	384456.531	384762.04	384723.888	384723.888	384689.078
									Northing	399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
									Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
									Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
									Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
Sample Ref	5	11	3	7	4	7
Easting	384456.531	384456.531	384762.04	384723.888	384723.888	384689.078
Northing	399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									TP115	TP115	BH201	BH202	BH202	BH205
Sample Ref									5	11	3	7	4	7
Easting									384456.531	384456.531	384762.04	384723.888	384723.888	384689.078
Northing									399526.838	399526.838	399820.851	399716.141	399716.141	399735.153
Hole Elevation (mOD)									40.513	40.513	43.4	42.663	42.663	42.578
Sample Depth (mbgl)									1.3	3.3	0.3	2.2	1.2	1.8
Sample Date									07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
Investigation									VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
Geology									MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
									RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0						
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0						<10
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0		<0.01	<0.01		<0.01	<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0	6.6					
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0	<0.01					
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	<5		0
Titanium		mg/kg	No GAC	-	67	420		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-	76	101		0
Total Aromatics		mg/kg	No GAC	-	<1	6340		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-				0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols, Total		mg/kg	No GAC	-	<5	<5		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP115	TP115	BH201	BH202	BH202	BH205
Sample Ref	5	11	3	7	4	7
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Hole Elevation (mOD)	40.513	40.513	43.4	42.663	42.663	42.578
Sample Depth (mbgl)	1.3	3.3	0.3	2.2	1.2	1.8
Sample Date	07/01/19	07/01/19	22/03/21	23/02/21	23/02/21	31/03/21
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604	NW1604
Geology	MG-G-G	MG-G-G	MG-G	MG-CO	MG-G	GTD - CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
						<10
			<10	<10	52	
			<10	<10	52	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<1	<1	2.5	11		5.9
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		6.7	7.5	18	**53**		18
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.4	0.8	1	**2.6**		1.6
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.3	0.2	0.6	1.1		0.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		12	19	26	24		190
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1		<1			
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		13	27	73	240		130
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		6.4	14	51	240		190
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		<0.05	<0.05	0.1	0.69		0.17
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		14	28	38	38		25
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	1		1.3
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		16	23	38	61		640
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		29	63	180	300		88
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.3	7.7	7.6	6.8		7
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<0.1	<0.1	<0.1	0.5		1.3
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.3	0.3	0.4	0.4		0.8
Total Organic Carbon		%	No GAC	-	<0.1	54		0		0.6	0.5	0.6	30	7.4	22
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD		NAD	NAD		NAD
Asbestos Analysts Comments		---	No GAC	-				0		na		na	na		na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3		0.4
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5		<1.5			
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2		<1.2			
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5		<1.5			
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4		<3.4			
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4					
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01		<0.01			
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01		<0.01			
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01		<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0				<10			
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		<0.9		<0.9			
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		<0.5		<0.5			
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		<0.6		<0.6			
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		<1.4		<1.4			
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4					
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01		<0.01			
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01		<0.01			
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							<10
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.03		0.09	0.29		
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.03		<0.03	0.04		
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		<0.03		0.74	1.4		
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.03		0.1	0.15		
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		<0.03		0.09	0.12		
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		<0.03		0.83	1.3		
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		<0.03		0.76	1.4		
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		<0.03		0.17	0.51		
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		<0.1		4.2	7.2		<1.6
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03		<0.03	<0.03		
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		<0.03		0.17	0.2		
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		<0.03		0.27	0.4		
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		<0.03		0.12	0.13		
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		<0.03		0.22	0.28		
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		<0.03		0.24	0.45		
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		<0.03		0.09	0.15		
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		<0.03		0.31	0.44		
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01		<0.01	<0.01		<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01		<0.01	<0.01		<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01		<0.01	<0.01		<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01		<0.01	<0.01		<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							<0.04
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH205	BH206	BH206	BH207
Sample Ref					10	11	6	4
Easting					384689.078	384729.233	384729.233	384654.246
Northing					399735.153	399690.75	399690.75	399626.1
Hole Elevation (mOD)					42.578	42.692	42.692	41.638
Sample Depth (mbgl)					2.8	3.2	1.2	1.2
Sample Date					31/03/21	24/03/21	24/03/21	08/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					GTD - CO	GTD - G	MG-G	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
Sample Ref	10	11	6	4	7	16
Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0							
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0		<10					
Aluminium		mg/kg	No GAC	-	8270	9680		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0							
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0		<0.01		<0.01			
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0							
Barium		mg/kg	No GAC	-	68	198		0							
Calcium		mg/kg	No GAC	-	8540	8540		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0							
Cobalt		mg/kg	No GAC	-	4	12		0							
Coronene		mg/kg	No GAC	-	0.04	0.12		0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	43300	43300		0							
Loss on ignition		%	No GAC	-	1.3	24		0					6.2		
Magnesium		mg/kg	No GAC	-	1000	1000		0							
Manganese		mg/kg	No GAC	-	63	595		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	8		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0							
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0					<0.01		
Perylene		mg/kg	No GAC	-	<0.1	25.6		0							
Potassium		mg/kg	No GAC	-	500	500		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	530		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH205	BH206	BH206	BH207	BH207	BH207
									Sample Ref	10	11	6	4	7	16
									Easting	384689.078	384729.233	384729.233	384654.246	384654.246	384654.246
									Northing	399735.153	399690.75	399690.75	399626.1	399626.1	399626.1
									Hole Elevation (mOD)	42.578	42.692	42.692	41.638	41.638	41.638
									Sample Depth (mbgl)	2.8	3.2	1.2	1.2	2.2	5.2
									Sample Date	31/03/21	24/03/21	24/03/21	08/04/21	08/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	GTD - CO	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0			<10				
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0			<10				
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						<10	
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						<10	
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
									Sample Ref	26	32	3	12	20	4
									Easting	384654.246	384654.246	384562.98	384562.98	384562.98	384548.843
									Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
									Hole Elevation (mOD)	41.638	41.638	40.66	40.66	40.66	41.214
									Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		2.8	2.1	8.9	2.3	6.5	3.6
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		21	30	28	25	36	22
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		**3.9**	1.7	**1.8**	1.6	**2**	**2.1**
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.9	0.7	1	0.3	0.6	0.4
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		28	31	17	25	29	13
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0				<1	<1		<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		160	79	220	130	220	130
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		170	140	150	90	160	100
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.21	0.2	10	0.07	17	0.48
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		45	35	28	30	33	37
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	0.6	<0.5	0.7	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		68	41	48	38	52	50
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		140	130	160	97	140	160
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		10.9	7.4	6.7	7.1	6.8	7.6
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		9.1	18	0.5	0.4	0.6	0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.5	0.8	0.3	0.4	0.4	0.3
Total Organic Carbon		%	No GAC	-	<0.1	54		0		18	19	29	29	29	1.8
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0			NAD	NAD	NAD		NAD
Asbestos Analysts Comments		---	No GAC	-				0			na	na	na		na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0			<0.1				
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	1.5	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			<1.5	<1.5	<1.5		<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			<1.2	<1.2	<1.2		<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			<1.5	<1.5	<1.5		<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			<3.4	<3.4	<3.4		<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2			<3.4	<3.4	<3.4		
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01	<0.01	<0.01		<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			<0.01	<0.01	<0.01		<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			<0.01	<0.01	<0.01		<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
									Sample Ref	26	32	3	12	20	4
									Easting	384654.246	384654.246	384562.98	384562.98	384562.98	384548.843
									Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
									Hole Elevation (mOD)	41.638	41.638	40.66	40.66	40.66	41.214
									Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							<10
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<0.9	<0.9	<0.9		<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<0.5	<0.5	<0.5		<0.5
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<0.6	<0.6	<0.6		<0.6
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			<1.4	<1.4	<1.4		<1.4
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			<1.4	<1.4	<1.4		
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01	<0.01	<0.01		<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<0.01	<0.01	<0.01		<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			0.1	0.03	<0.03		<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			0.04	<0.03	<0.03		<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			1.7	0.54	0.12		0.27
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			0.24	<0.03	<0.03		<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			0.13	0.07	<0.03		0.04
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			1.4	0.29	0.09		0.31
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			1.8	0.55	0.1		0.24
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			0.03	0.07	0.05		0.21
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0			7.9	2.5	0.4		1.5
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			0.08	<0.03	<0.03		<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			0.39	0.05	<0.03		0.05
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			0.45	0.19	0.04		0.08
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			0.18	0.07	<0.03		0.04
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			0.3	0.14	<0.03		0.05
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.43	0.23	<0.03		0.07
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			0.14	0.09	<0.03		<0.03
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.41	0.18	0.04		0.11
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0			<0.01	<0.01	<0.01		<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0			<0.01	<0.01	<0.01		<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0			<0.01	<0.01	<0.01		<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0			<0.01				
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0			<0.01				
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0			<0.01	<0.01	<0.01		<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
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									Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
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									Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0			<0.01				
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0			<0.01				
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0			<0.01				
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0			<0.01				
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0			<0.01				
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0			<0.01				
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0			<0.1				
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0			<0.1				
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0			0.2				
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

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									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0			<0.1				
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0			<0.01				
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0			<0.01				
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0			<0.1				
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0			0.2				
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0							
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0							
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1				
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0			<0.1				
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0			0.2				
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0			<0.01				
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0							
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0			<0.1				
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0			<0.1				
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0			<0.01				
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0			<0.01				
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0			<0.1				
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0			<0.01				
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0			<0.01				
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0			<0.01				
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0			<0.01				
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.01				
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
									Sample Ref	26	32	3	12	20	4
									Easting	384654.246	384654.246	384562.98	384562.98	384562.98	384548.843
									Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
									Hole Elevation (mOD)	41.638	41.638	40.66	40.66	40.66	41.214
									Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH207	BH207	BH208	BH208
Sample Ref					26	32	3	12
Easting					384654.246	384654.246	384562.98	384562.98
Northing					399626.1	399626.1	399592.56	399592.56
Hole Elevation (mOD)					41.638	41.638	40.66	40.66
Sample Depth (mbgl)					10.2	13.2	0.3	4.2
Sample Date					09/04/21	09/04/21	08/04/21	08/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-G	MG-G	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH208	BH208	BH209					
Sample Ref	20	4						
Easting	384562.98	384548.843						
Northing	399592.56	399628.33						
Hole Elevation (mOD)	40.66	41.214						
Sample Depth (mbgl)	8.2	1.2						
Sample Date	08/04/21	24/03/21						
Investigation	NW1604	NW1604						
Geology	MG-G	MG-G						
	RB Plateau	RB Plateau						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
									Sample Ref	26	32	3	12	20	4
									Easting	384654.246	384654.246	384562.98	384562.98	384562.98	384548.843
									Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
									Hole Elevation (mOD)	41.638	41.638	40.66	40.66	40.66	41.214
									Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
									Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0			<0.1				
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0			<10	<10	<10		
Aluminium		mg/kg	No GAC	-	8270	9680		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0							
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0			<0.01	<0.01	<0.01		<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0							
Barium		mg/kg	No GAC	-	68	198		0							
Calcium		mg/kg	No GAC	-	8540	8540		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0							
Cobalt		mg/kg	No GAC	-	4	12		0							
Coronene		mg/kg	No GAC	-	0.04	0.12		0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	43300	43300		0							
Loss on ignition		%	No GAC	-	1.3	24		0							
Magnesium		mg/kg	No GAC	-	1000	1000		0							
Manganese		mg/kg	No GAC	-	63	595		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	8		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0							
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0							
Perylene		mg/kg	No GAC	-	<0.1	25.6		0							
Potassium		mg/kg	No GAC	-	500	500		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	530		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	<5		0
Titanium		mg/kg	No GAC	-	67	420		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-	76	101		0
Total Aromatics		mg/kg	No GAC	-	<1	6340		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-				0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols, Total		mg/kg	No GAC	-	<5	<5		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH207	BH207	BH208	BH208	BH208	BH209
Sample Ref	26	32	3	12	20	4
Easting	384654.246	384654.246	384562.98	384562.98	384562.98	384548.843
Northing	399626.1	399626.1	399592.56	399592.56	399592.56	399628.33
Hole Elevation (mOD)	41.638	41.638	40.66	40.66	40.66	41.214
Sample Depth (mbgl)	10.2	13.2	0.3	4.2	8.2	1.2
Sample Date	09/04/21	09/04/21	08/04/21	08/04/21	08/04/21	24/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Total Aliphatics and Aromatics C10-C44		<10				
Aromatics >C10-44		<10	<10	<10		
Total Aliphatics and Aromatics C10-C44	<10	<10				
Total Aliphatics and Aromatics C5-C35						<10
Total Aromatics C5-C35						<10

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<1	2.9	1.6	6.2	11	7
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		6.4	21	7.8	21	35	**50**
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.4	1.5	0.9	**1.8**	**2**	1
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.1	0.1	0.2	0.3	0.4	0.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		9.2	7.8	22	13	14	470
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0				<1			
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		18	210	30	190	410	230
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		9.4	260	29	**490**	**600**	**460**
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		<0.05	0.15	0.09	0.28	0.95	1.2
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		12	34	29	29	37	28
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	0.7	<0.5	1.2	0.9	0.8
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		12	33	26	43	50	25
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		32	38	51	120	140	130
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.8	7.7	7.2	7.7	7.2	7.6
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<0.1	<0.1	0.1	2.9	2.5	**47**
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.2	0.2	0.4	0.8	1	2
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.1	1.1	54	5.4	4.6	1.5
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0				NAD	NAD	NAD	
Asbestos Analysts Comments		---	No GAC	-				0				na	na	na	
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0				<0.1	<0.5	<0.5	
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5	<0.5	
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0				<1.5	<1.5	<1.5	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2				<1.2	<1.2	<1.2	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6				<1.5	<1.5	<1.5	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14				<3.4	<3.4	<3.4	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2				<3.4	<3.4	<3.4	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0				<0.01	<0.01	<0.01	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0				<0.01	<0.01	<0.01	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0				<0.01	<0.01	<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0				<0.9	1.9	<0.9	
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0				8.6	10	<0.5	
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0				20	18	<0.6	
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0				17	21	<1.4	
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0				<1.4	<1.4	<1.4	
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0				<0.01	<0.01	<0.01	
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0				<0.01	<0.01	<0.01	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0				0.96	0.04	<0.03	
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0				<0.03	<0.03	<0.03	
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0				1.3	0.29	0.29	
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0				0.59	<0.03	<0.03	
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0				0.08	0.04	0.05	
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0				2.7	0.23	0.2	
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0				1.3	0.27	0.28	
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0				0.05	0.08	0.04	
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0				11	1.4	1.4	
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0				<0.03	<0.03	<0.03	
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0				0.41	0.05	0.05	
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0				0.28	0.09	0.1	
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0				0.09	0.04	0.05	
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0				0.18	0.05	0.06	
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0				0.25	0.09	0.1	
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0				0.1	0.04	<0.03	
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0				0.4	0.1	0.13	
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0				<0.01	<0.01	<0.01	
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0				<0.01	<0.01	<0.01	
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0				<0.01	<0.01	<0.01	
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0				<0.01			
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0				<0.01			
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0				<0.01	<0.01	<0.01	
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0				<0.01			
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				0.01			
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0				<0.01			
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0				<0.01			
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0				<0.01			
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0				<0.01			
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0				<0.01			
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0				<0.1			
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0				<0.1			
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0				1.6			
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0				<0.1			
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0				<0.01			
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0				<0.01			
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0				<0.1			
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0				0.8			
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0							
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0							
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0				<0.1			
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0				0.9			
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0				<0.01			
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0							
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0				<0.1			
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0				<0.1			
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0				<0.01			
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0				<0.01			
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0				<0.1			
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0				<0.01			
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0				<0.01			
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0				<0.01			
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0				<0.01			
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.01			
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0							
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
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ARUP

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									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0				0.3			
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0				<10	<10	<10	
Aluminium		mg/kg	No GAC	-	8270	9680		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0				2.2			
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0				<0.01	<0.01	<0.01	
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0							
Barium		mg/kg	No GAC	-	68	198		0							
Calcium		mg/kg	No GAC	-	8540	8540		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0							
Cobalt		mg/kg	No GAC	-	4	12		0							
Coronene		mg/kg	No GAC	-	0.04	0.12		0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	43300	43300		0							
Loss on ignition		%	No GAC	-	1.3	24		0							
Magnesium		mg/kg	No GAC	-	1000	1000		0							
Manganese		mg/kg	No GAC	-	63	595		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	8		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5	<0.5	
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0							
Perylene		mg/kg	No GAC	-	<0.1	25.6		0							
Potassium		mg/kg	No GAC	-	500	500		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5	<0.5	
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	530		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH209	BH210	BH210	BH211A	BH211A	BH211A
									Sample Ref	9	12	6	8	14	20
									Easting	384548.843	384479.67	384479.67	384441.79	384441.79	384441.79
									Northing	399628.33	399554.7	399554.7	399513.96	399513.96	399513.96
									Hole Elevation (mOD)	41.214	40.45	40.45	40.44	40.44	40.44
									Sample Depth (mbgl)	2.5	4.2	1.2	2.2	5.2	9
									Sample Date	24/03/21	12/04/21	12/04/21	01/04/21	01/04/21	01/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5	<0.5	
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5	<0.5	
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0				35	40	<10	
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0					<5	<5	
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0				35	<10	<10	
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		2.5	1	<1	<1	<1	6.5
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		**40**	7.5	1.9	5.7	6.8	23
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.6	0.9	0.3	0.6	0.5	**1.9**
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.3	0.2	0.1	0.2	0.3	1.5
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		110	26	6.2	17	12	26
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1		<1		<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		78	28	13	20	32	300
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		180	12	12	22	33	**460**
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.87	<0.05	<0.05	0.64	<0.05	0.28
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		17	31	9.8	21	16	44
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		17	29	7	20	17	53
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		120	59	27	43	77	270
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.8	8.1	8	8.1	7.9	6.1
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		12	<0.1	<0.1	<0.1	0.1	0.8
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0		12					
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0		0.1					
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0		1.6					
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.1	0.5	1	0.4	<0.2	<0.2
Total Organic Carbon		%	No GAC	-	<0.1	54		0		3.4	0.3	<0.1	0.5	0.7	2.4
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD		NAD		NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na		na		na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0		<0.1					<0.1
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3	<0.3	0.4
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5		<1.5		<1.5	<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		1.5		<1.2		<1.2	1.8
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		25		<1.5		<1.5	25
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		100		<3.4		<3.4	84
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4				<3.4	<3.4
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01		<0.01		<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01		<0.01		<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01		<0.01		<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0				<10			
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		<0.9		<0.9		<0.9	<0.9
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		<0.5		<0.5		<0.5	4.3
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		8.5		<0.6		<0.6	41
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		59		<1.4		<1.4	78
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4				<1.4	<1.4
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01		<0.01		<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01		<0.01		<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.1		<0.03		0.46	1
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.1		<0.03		0.04	0.24
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		<0.1		0.06		1.5	9.1
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.1		<0.03		0.27	0.53
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		<0.1		<0.03		0.13	1
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		<0.1		0.05		2	5.8
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		<0.1		0.05		1.5	8.4
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		<0.01		<0.03		0.61	<0.01
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0				0.26		8.9	43
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.1		<0.03		<0.03	0.04
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		<0.1		<0.03		0.34	1.3
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		<0.1		0.03		0.43	3
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		<0.1		<0.03		0.15	1.3
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		<0.1		<0.03		0.32	2.5
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		<0.1		0.03		0.44	3.7
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		<0.1		<0.03		0.17	1.3
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		<0.1		0.03		0.55	3.5
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01		<0.01		<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01		<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01		<0.01		<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		<0.01					<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		<0.01					<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0				<0.01		<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0		<0.01					<0.01
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0		<0.01					<0.01
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0		<0.01					<0.01
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0		<0.01					<0.01
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0		<0.01					<0.01
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0		<0.01					<0.01
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					<0.01
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0		<0.1					<0.1
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0		<0.1					<0.1
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0		<0.1					1.6
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					<0.01
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					0.1
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
Sample Ref	22	9	6	8	2	2
Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether						
Bis(2-chloroisopropyl)ether	<0.1					<0.1
Bis(2-ethylhexyl)phthalate	<0.1					<0.1
Bromobenzene	<0.01					<0.01
Bromochloromethane	<0.01					<0.01
Bromodichloromethane	<0.01					<0.01
Bromoform	<0.01					<0.01
Bromomethane						
Butylbenzyl phthalate	<0.1					0.1
Carbazole	<0.1					1.8
Carbon Disulphide						
Carbon Tetrachloride	<0.01					<0.01
Chlorobenzene	<0.01					<0.01
Chloroethane						
Chloroethene	<0.01					<0.01
Chloroform	<0.01					<0.01
Chloromethane						
Di-N-Butyl Phthalate	<0.1					<0.1
Di-N-Octyl Phthalate	<0.1					<0.1
Dibenzofuran	<0.1					3.3
Dibromochloromethane	<0.01					<0.01
Dibromomethane	<0.01					<0.01
Dichloromethane						
Diethyl phthalate	<0.1					<0.1
Dimethyl phthalate	<0.1					<0.1
Diphenylamine	<0.1					<0.1
Hexachlorobenzene	<0.1					<0.1
Hexachlorobutadiene	<0.01					<0.01
Hexachlorocyclopentadiene	<0.1					<0.1
Hexachloroethane						
Isophorone						
Isopropylbenzene	<0.01					<0.01
M-Dinitrobenzene	<0.1					<0.1
MTBE	<0.01					<0.01
Nitrobenzene						
O-Dinitrobenzene	<0.1					<0.1
P-Dinitrobenzene	<0.1					<0.1
PCP; (Pentachlorophenol)	<0.1					<0.1
Sec-Butylbenzene	<0.01					<0.01
Styrene	<0.01					<0.01
Tert-Butylbenzene	<0.01					<0.01
Tetrachloroethene	<0.01					<0.01
Trichloroethene	<0.01					<0.01
Trichlorofluoromethane						
cis 1,2-Dichloroethene	<0.01					<0.01
cis 1,3-Dichloropropene						
cis1,3-Dichloropropene	<0.01					<0.01
n-Butylbenzene	<0.01					<0.01
n-Nitroso-n-dipropylamine						
n-Propylbenzene	<0.01					<0.01
trans 1,2-Dichloroethene	<0.01					<0.01
trans 1,3-Dichloropropene	<0.01					<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0							
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							

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Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
Sample Ref	22	9	6	8	2	2
Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					<0.1
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0	<0.1					<0.1
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					<0.1
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0	94				<10	94
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0	<0.01		<0.01		<0.01	<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0						
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0						
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH211A	BH215	BH215	TP201	TP201	TP202
									Sample Ref	22	9	6	8	2	2
									Easting	384441.79	384363	384363	384760.754	384760.754	384734.057
									Northing	399513.96	399541	399541	399795.983	399795.983	399762.842
									Hole Elevation (mOD)	40.44	44.523	44.523	42.99	42.99	42.855
									Sample Depth (mbgl)	10.5	2.2	1.1	2	0.3	0.3
									Sample Date	06/04/21	25/03/21	25/03/21	29/03/21	29/03/21	29/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	GTD - CO	MG-G	GTD - CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0		49				<10	110
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0		140				<10	200
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0				<10			
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0				<10			
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP202C	TP203	TP203	TP203	TP206	TP206A
									Sample Ref	2	5	8	14	2	8
									Easting	384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
									Northing	399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
									Hole Elevation (mOD)	42.618	43.277	43.277	43.277	43.375	41.988
									Sample Depth (mbgl)	0.3	1	2	4	0.3	2
									Sample Date	30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<1	<1	1.3	<1	3.7	1.7
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		11	5.8	9	7.5	21	11
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.8	0.6	0.7	0.7	1.1	1.1
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.7	0.1	0.1	0.1	0.6	0.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		13	17	16	21	16	26
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1	<1		<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		100	13	29	25	130	94
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		110	10	16	16	200	27
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.07	<0.05	0.42	0.46	0.41	0.35
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		19	25	21	27	27	38
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	0.8	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		28	20	23	25	37	31
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		200	32	46	54	200	67
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.9	8.4	8.2	8.2	8.1	7.8
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.2	0.1	1	<0.1	2.2	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0						2.2	<0.2
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0						<0.1	<0.1
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0						<0.6	<0.6
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.8	0.4	0.4	0.4	0.4	0.6
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.5	0.4	1	1.1	14	0.8
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0						0.007	
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD		Chrysotile	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na		Bundles of Chrysotile fibres	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							<0.1
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		2.1	<0.3	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	<1.5	<1.5		<1.5	<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2	<1.2	<1.2		<1.2	4.9
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5	<1.5	<1.5		<1.5	3.7
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4	<3.4	<3.4		<3.4	<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4	<3.4	<3.4		<3.4	<3.4
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01	<0.01		<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01	<0.01		<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01	<0.01		<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP202C	TP203	TP203	TP203	TP206	TP206A
									Sample Ref	2	5	8	14	2	8
									Easting	384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
									Northing	399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
									Hole Elevation (mOD)	42.618	43.277	43.277	43.277	43.375	41.988
									Sample Depth (mbgl)	0.3	1	2	4	0.3	2
									Sample Date	30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		1.7	<0.9	<0.9		<0.9	3.7
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		9.7	<0.5	<0.5		2.9	31
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		15	<0.6	<0.6		11	52
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		36	<1.4	<1.4		62	59
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4	<1.4	<1.4		<1.4	<1.4
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01	<0.01	<0.01		<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01	<0.01	<0.01		<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		0.61	<0.03	<0.03		1.1	0.45
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		0.05	<0.03	<0.03		**0.35**	0.07
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		3.2	<0.03	<0.03		10	1.4
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		0.35	<0.03	<0.03		2.3	0.75
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		0.22	<0.03	<0.03		1.5	0.25
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		2.8	<0.03	<0.03		14	3.2
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		2.7	<0.03	<0.03		18	3.7
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		0.18	<0.03	<0.03		0.35	0.74
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		14	<0.1	<0.1		75	17
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03	<0.03	<0.03		0.42	0.37
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		0.52	<0.03	<0.03		3.5	0.55
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		0.79	<0.03	<0.03		5.3	0.65
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		0.28	<0.03	<0.03		2.6	0.51
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		0.52	<0.03	<0.03		**5.6**	0.61
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		0.79	<0.03	<0.03		**4.2**	0.59
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		0.29	<0.03	<0.03		1.6	0.14
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		0.91	<0.03	<0.03		4.8	0.72
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							<0.1
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							<0.1
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP202C	TP203	TP203	TP203	TP206	TP206A
									Sample Ref	2	5	8	14	2	8
									Easting	384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
									Northing	399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
									Hole Elevation (mOD)	42.618	43.277	43.277	43.277	43.375	41.988
									Sample Depth (mbgl)	0.3	1	2	4	0.3	2
									Sample Date	30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							<0.1
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							<0.1
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							<0.1
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							<0.1
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							<0.1
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							<0.1
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							<0.1
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							<0.1
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							3.6
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								TP202C	TP203	TP203	TP203	TP206	TP206A
Sample Ref								2	5	8	14	2	8
Easting								384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
Northing								399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
Hole Elevation (mOD)								42.618	43.277	43.277	43.277	43.375	41.988
Sample Depth (mbgl)								0.3	1	2	4	0.3	2
Sample Date								30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
Investigation								NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology								MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0						<0.1
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0						<0.1
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0						<0.1
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0						<0.1
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0						<0.1
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0						<0.1
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0						<0.1
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0						<0.1
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.1
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0						<0.1
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0						<0.1
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0						<0.1
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0						<0.1
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0						<0.1
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0						<0.1
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0						<0.1
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						<0.1
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.1
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0						<0.1
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.1
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP202C	TP203	TP203	TP203	TP206	TP206A
Sample Ref					2	5	8	14	2	8
Easting					384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
Northing					399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
Hole Elevation (mOD)					42.618	43.277	43.277	43.277	43.375	41.988
Sample Depth (mbgl)					0.3	1	2	4	0.3	2
Sample Date					30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
Investigation					NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
					RB Plateau	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB05b School**	**RB05b School**
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0						
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0						
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0						
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0						
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0						
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0						
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0						
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0						
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0						
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0						
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0						
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0						
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0						
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0						
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0						
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0						
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Propham		mg/kg	No GAC	-	<0.1	<0.1		0						
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0						
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0						
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP202C	TP203	TP203	TP203	TP206	TP206A
									Sample Ref	2	5	8	14	2	8
									Easting	384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
									Northing	399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
									Hole Elevation (mOD)	42.618	43.277	43.277	43.277	43.375	41.988
									Sample Depth (mbgl)	0.3	1	2	4	0.3	2
									Sample Date	30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0							
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

TP202C	TP203	TP203	TP203	TP206	TP206A	
2	5	8	14	2	8	
384712.277	384780.789	384780.789	384780.789	384828.06	384838.069	
399739.124	399725.902	399725.902	399725.902	399752.78	399756.435	
42.618	43.277	43.277	43.277	43.375	41.988	
0.3	1	2	4	0.3	2	
30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21	
NW1604	NW1604	NW1604	NW1604	NW1604	NW1604	
MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School	
					<0.1	
					<0.1	
					<0.1	
<10	<10	<10		<10	<10	
<0.01	<0.01	<0.01		<0.01	<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									TP202C	TP203	TP203	TP203	TP206	TP206A
Sample Ref									2	5	8	14	2	8
Easting									384712.277	384780.789	384780.789	384780.789	384828.06	384838.069
Northing									399739.124	399725.902	399725.902	399725.902	399752.78	399756.435
Hole Elevation (mOD)									42.618	43.277	43.277	43.277	43.375	41.988
Sample Depth (mbgl)									0.3	1	2	4	0.3	2
Sample Date									30/03/21	06/04/21	06/04/21	06/04/21	07/04/21	12/04/21
Investigation									NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology									MG-G	MG-CO	MG-CO	MG-CO	MG-G	MG-CO
									RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB05b School	RB05b School
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0						
Titanium		mg/kg	No GAC	-	67	420		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0						
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0	49	<10	<10		65	130
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0	49	<10	<10		65	140
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP207	TP209	TP210	TP210	TP210	TP211
									Sample Ref	5	5	13	2	5	11
									Easting	384809.151	384826.522	384755.497	384755.497	384755.497	384622.741
									Northing	399749.371	399800.992	399690.585	399690.585	399690.585	399659.29
									Hole Elevation (mOD)	43.344	43.175	43.076	43.076	43.076	41.643
									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<1	<1	1.1	<1	28	1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		4.7	4.8	6.8	3.8	13	6.5
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.5	0.6	0.6	<0.2	0.6	0.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.1	0.4	<0.1	<0.1	0.7	<0.1
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		13	9.1	15	4.8	17	19
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1		<1	<1	
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		18	35	22	9.9	92	18
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		12	58	18	9.6	420	9.8
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		<0.05	<0.05	0.47	<0.05	<0.05	0.45
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		17	8.1	21	6.6	17	17
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		15	15	19	8.4	31	22
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		45	56	42	27	220	37
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.1	7.4	8	7.3	8.2	7.4
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<0.1	0.1	<0.1	0.2	0.4	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0		<0.2					
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0		<0.1					
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0		0.6					
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.3	1.2	0.3	0.2	1	0.7
Total Organic Carbon		%	No GAC	-	<0.1	54		0		0.9	1.1	0.8	1.1	2.4	0.5
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0						0.011	
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD		NAD	Chrysotile	
Asbestos Analysts Comments		---	No GAC	-				0		na	na		na	Chrysotile present in Microscopic Loose Fibrous Asbestos Debris	
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0		<0.1			<0.1		
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5	<1.5		<1.5	<1.5	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2	<1.2		2.9	<1.2	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5	<1.5		8	<1.5	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4	<3.4		53	<3.4	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4	<3.4		<3.4	<3.4	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01	<0.01		<0.01	<0.01	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01	<0.01		<0.01	<0.01	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01	<0.01		<0.01	<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP207	TP209	TP210	TP210	TP210	TP211
									Sample Ref	5	5	13	2	5	11
									Easting	384809.151	384826.522	384755.497	384755.497	384755.497	384622.741
									Northing	399749.371	399800.992	399690.585	399690.585	399690.585	399659.29
									Hole Elevation (mOD)	43.344	43.175	43.076	43.076	43.076	41.643
									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		<0.9	<0.9		<0.9	<0.9	
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		<0.5	7		9.4	<0.5	
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		<0.6	11		33	<0.6	
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		<1.4	40		200	<1.4	
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4	<1.4		81	<1.4	
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01	<0.01		<0.01	<0.01	
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01	<0.01		<0.01	<0.01	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0		<10					
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.03	<0.03		1.2	0.31	
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.03	0.04		**0.76**	0.12	
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		<0.03	1.3		12	3.6	
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.03	<0.03		0.8	0.27	
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		<0.03	0.2		2.8	0.46	
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		<0.03	0.1		5.8	3.1	
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		<0.03	1.7		11	3.7	
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		<0.01	<0.03		<0.01	0.25	
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		<0.1	6.2		65	19	
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03	0.04		0.11	0.09	
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		<0.03	0.11		1.8	0.62	
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		<0.03	0.55		5.2	1.2	
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		<0.03	0.27		3.4	0.64	
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		<0.03	0.58		**5.6**	1	
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		<0.03	0.6		**7.1**	1.4	
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		<0.03	0.21		2.4	0.42	
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		<0.03	0.56		5.2	1.4	
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01		<0.01	<0.01	
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01		<0.01	<0.01	
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01		<0.01	<0.01	
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		<0.01			<0.01		
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		<0.01			<0.01		
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01		<0.01	<0.01	
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.04					
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP207	TP209	TP210	TP210	TP210	TP211
									Sample Ref	5	5	13	2	5	11
									Easting	384809.151	384826.522	384755.497	384755.497	384755.497	384622.741
									Northing	399749.371	399800.992	399690.585	399690.585	399690.585	399659.29
									Hole Elevation (mOD)	43.344	43.175	43.076	43.076	43.076	41.643
									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0		<0.01			<0.01		
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0		<0.01			<0.01		
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0		<0.01			<0.01		
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0		<0.01			<0.01		
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0		<0.01			<0.01		
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0		<0.01			<0.01		
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0		<0.1			<0.1		
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0		<0.1			<0.1		
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0		<0.1			0.6		
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

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									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0		<0.1			<0.1		
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		<0.01			<0.01		
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0		<0.01			<0.01		
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0		<0.1			1.5		
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0							
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0							
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1			<0.1		
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0		<0.1			<0.1		
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0		<0.1			0.9		
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		<0.01			<0.01		
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0							
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0		<0.1			<0.1		
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0		<0.1			<0.1		
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0		<0.01			<0.01		
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1			<0.1		
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0		<0.1			<0.1		
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0		<0.01			<0.01		
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		<0.01			<0.01		
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0		<0.01			<0.01		
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01			<0.01		
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01			<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

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									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP207	TP209	TP210	TP210
Sample Ref					5	5	13	2
Easting					384809.151	384826.522	384755.497	384755.497
Northing					399749.371	399800.992	399690.585	399690.585
Hole Elevation (mOD)					43.344	43.175	43.076	43.076
Sample Depth (mbgl)					1	1	3	0.3
Sample Date					01/04/21	30/03/21	31/03/21	31/03/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-CO	MG-G	GTD - CO	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP210	TP210	TP211	
Sample Ref					5	11		
Easting					384755.497	384622.741		
Northing					399690.585	399659.29		
Hole Elevation (mOD)					43.076	41.643		
Sample Depth (mbgl)					1	3.1		
Sample Date					31/03/21	31/03/21		
Investigation					NW1604	NW1604		
Geology					MG-G	GTD - CO		
					RB Plateau	RB Plateau		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

Hole Ref	TP207	TP209	TP210	TP210	TP210	TP211
Sample Ref	5	5	13	2	5	11
Easting	384809.151	384826.522	384755.497	384755.497	384755.497	384622.741
Northing	399749.371	399800.992	399690.585	399690.585	399690.585	399659.29
Hole Elevation (mOD)	43.344	43.175	43.076	43.076	43.076	41.643
Sample Depth (mbgl)	1	1	3	0.3	1	3.1
Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)						
trans-Chlordane (Gamma)						
2,3,5,6-Tetrachlorophenol	<0.1			<0.1		
2,4,5-T						
2,4-DP; (Dichlorprop)						
3+4-Methylphenol	<0.1			<0.1		
4-Chlorophenyl Phenyl Ether	<0.1			<0.1		
Aliphatics >C10-44	<10	<10		57	<10	
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7	<0.01	<0.01		<0.01	<0.01	
Asbestos ACM - Suitable for Water Absorption Test?						
Asbestos in soil						
Asbestos in soil % composition (hand picking and weighing)						
Barium						
Calcium						
Chloride (water sol 2:1)						
Cobalt						
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane						
Dry Matter (Dry Solids) at 40C						
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition	2.7					
Magnesium						
Manganese						
Mass Sample (1 stage WAC)						
Methabenzthiazuron						
Molybdenum						
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.01					
Perylene						
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP207	TP209	TP210	TP210	TP210	TP211
									Sample Ref	5	5	13	2	5	11
									Easting	384809.151	384826.522	384755.497	384755.497	384755.497	384622.741
									Northing	399749.371	399800.992	399690.585	399690.585	399690.585	399659.29
									Hole Elevation (mOD)	43.344	43.175	43.076	43.076	43.076	41.643
									Sample Depth (mbgl)	1	1	3	0.3	1	3.1
									Sample Date	01/04/21	30/03/21	31/03/21	31/03/21	31/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	GTD - CO	MG-G	MG-G	GTD - CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0		<10	60		290	<10	
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0		<10	60		340	<10	
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									TP211	TP211	TP212	TP212	TP212	TP213
Sample Ref									5	2	2	5	10	8
Easting									384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
Northing									399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
Hole Elevation (mOD)									41.643	41.643	42.018	42.018	42.018	43.311
Sample Depth (mbgl)									1	0.3	0.3	1	3	2
Sample Date									31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
Investigation									NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology									MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
									RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal														
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		4.4		2.1	3.7	<1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		18		89	40	11
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		1.3		1	1.5	0.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.2		1	2.2	0.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		13		7.9	18	20
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1		<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		160		120	170	45
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		150		110	160	100
Manganese		mg/kg	No GAC	-				0						
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.15		<0.05	0.26	0.25
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		33		33	33	25
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5		<0.5	1.2	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		37		23	53	26
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		110		530	1000	69
Inorganic														
pH		pH Units	No GAC	-	4.52	10.9		0		7.3		6.8	6.9	7.7
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0						
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0						
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.2		<0.1	0.2	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0						
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0						
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0						
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.1		0.6	0.7	0.4
Total Organic Carbon		%	No GAC	-	<0.1	54		0	0.9	3.8	5.3	10	6.1	3.4
Sulphate (acid soluble)		mg/kg	No GAC	-				0						
Asbestos														
Asbestos Matrix (microscope)		-	No GAC	-				0						
Asbestos Matrix (visual)		-	No GAC	-				0						
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0						
Asbestos (Presence of)		---	No GAC	-				0		NAD		NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na		na	na	na
Phenol and mineral oils														
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0						<0.1
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3		1.2	0.6	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0						
Xylenols		mg/kg	No GAC	-				0						
TPH														
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5		<1.5		<1.5
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2		<1.2		<1.2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5		<1.5		<1.5
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4		<3.4		<3.4
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4		<3.4		<3.4
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01		<0.01		<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01		<0.01		<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01		<0.01		1.5

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
									Sample Ref	5	2	2	5	10	8
									Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
									Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
									Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
									Sample Depth (mbgl)	1	0.3	0.3	1	3	2
									Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<0.9		1.2		34
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<0.5		3		160
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<0.6		8.3		180
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			<1.4		6.3		150
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			<1.4		<1.4		<1.4
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01		<0.01		<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<0.01		<0.01		<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0		19		83			
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			<0.03		0.88	0.15	2.6
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.03		0.06	<0.03	**0.46**
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			0.14		3.8	0.87	7.6
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			<0.03		0.59	0.09	6.5
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			<0.03		0.19	0.07	1.6
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			0.13		5.2	0.98	22
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			0.13		3.1	0.77	20
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			0.04		5.7	0.63	8.1
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		5.9	0.63	14	24	4.7	100
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.03		<0.03	<0.03	4.2
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			0.04		0.86	0.16	5.1
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			0.04		1	0.23	3.7
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			<0.03		0.19	0.07	2.7
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			<0.03		0.5	0.13	**5**
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.06		0.72	0.18	2.7
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			<0.03		0.26	0.07	0.8
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.05		1.2	0.29	4.4
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01	<0.01	<0.01	0.24
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							0.18
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							0.39
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01	<0.01	<0.01	<0.01	0.2
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.04		<0.04			
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
									Sample Ref	5	2	2	5	10	8
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									Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
									Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
									Sample Depth (mbgl)	1	0.3	0.3	1	3	2
									Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							<0.1
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							<0.1
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							0.85
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							0.16
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							<0.1
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							0.42
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							<0.1
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							0.2
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							15
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
									Sample Ref	5	2	2	5	10	8
									Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
									Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
									Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
									Sample Depth (mbgl)	1	0.3	0.3	1	3	2
									Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0							<0.1
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0							<0.1
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0							<0.1
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0							<0.1
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0							<0.1
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0							
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0							
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0							<0.1
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0							<0.1
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0							<0.1
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0							<0.1
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0							
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0							<0.1
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0							<0.1
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0							<0.1
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0							<0.1
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							<0.1
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0							<0.1
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0							0.85
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0							<0.1
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							<0.1
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0							<0.1
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0							<0.1
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
									Sample Ref	5	2	2	5	10	8
									Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
									Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
									Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
									Sample Depth (mbgl)	1	0.3	0.3	1	3	2
									Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
Sample Ref	5	2	2	5	10	8
Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
Sample Depth (mbgl)	1	0.3	0.3	1	3	2
Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
Sample Ref	5	2	2	5	10	8
Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
Sample Depth (mbgl)	1	0.3	0.3	1	3	2
Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)						
trans-Chlordane (Gamma)						
2,3,5,6-Tetrachlorophenol						<0.1
2,4,5-T						
2,4-DP; (Dichlorprop)						
3+4-Methylphenol						<0.1
4-Chlorophenyl Phenyl Ether						<0.1
Aliphatics >C10-44		<10		<10		<10
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7		<0.01		<0.01		<0.01
Asbestos ACM - Suitable for Water Absorption Test?						
Asbestos in soil						
Asbestos in soil % composition (hand picking and weighing)						
Barium						
Calcium						
Chloride (water sol 2:1)						
Cobalt						
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane						
Dry Matter (Dry Solids) at 40C						
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition	3.4		16			
Magnesium						
Manganese						
Mass Sample (1 stage WAC)						
Methabenzthiazuron						
Molybdenum						
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.01		<0.01			
Perylene						
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP211	TP211	TP212	TP212	TP212	TP213
									Sample Ref	5	2	2	5	10	8
									Easting	384622.741	384622.741	384702.486	384702.486	384702.486	384823.539
									Northing	399659.29	399659.29	399639.937	399639.937	399639.937	399770.354
									Hole Elevation (mOD)	41.643	41.643	42.018	42.018	42.018	43.311
									Sample Depth (mbgl)	1	0.3	0.3	1	3	2
									Sample Date	31/03/21	31/03/21	31/03/21	31/03/21	31/03/21	07/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-G	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0			<10		<10		<10
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0			<10		<10		<10
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP213	TP213	TP214	TP214	TP215	TP216
									Sample Ref	14	2	4	10	8	5
									Easting	384823.539	384823.539	384429.18	384429.18	384601.36	384495.068
									Northing	399770.354	399770.354	399548.501	399548.501	399627.554	399605.846
									Hole Elevation (mOD)	43.311	43.311	40.247	40.247	41.28	40.799
									Sample Depth (mbgl)	4	0.3	1	3	2	1
									Sample Date	07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		1	3.4	<1	<1	1.6	<1
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		7.5	18	14	5	16	8.6
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.6	1	0.9	0.3	1.3	0.9
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.1	0.8	0.1	<0.1	0.3	0.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		18	16	19	9.1	13	24
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1			<1	
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		27	200	23	12	83	29
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		190	230	13	9.3	97	11
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.15	0.97	1.1	<0.05	0.4	<0.05
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		22	26	22	9.9	38	32
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	0.9	<0.5	<0.5	<0.5	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		20	40	24	12	37	28
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		51	160	52	28	170	61
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.4	8.4	7.4	8.1	6.9	8
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<0.1	0.3	<0.1	<0.1	0.7	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.5	0.6	1.2	0.4	0.6	0.5
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.4	17	<0.5	<0.5	6	0.7
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD			NAD	
Asbestos Analysts Comments		---	No GAC	-				0		na	na			na	
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0		<0.1					
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		1.6				<1.5	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		15				<1.2	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		21				<1.5	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		7.2				<3.4	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4				<3.4	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01				<0.01	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01				<0.01	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		3.1				<0.01	

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Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

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									Hole Elevation (mOD)	43.311	43.311	40.247	40.247	41.28	40.799
									Sample Depth (mbgl)	4	0.3	1	3	2	1
									Sample Date	07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		3.3				<0.9	
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		26				<0.5	
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		41				<0.6	
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		24				<1.4	
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4				<1.4	
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01				<0.01	
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01				<0.01	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						<10	
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		0.45	0.52			0.04	
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		0.05	**0.75**			<0.03	
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		1.2	6			0.39	
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		0.93	0.49			<0.03	
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		0.15	3			0.05	
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		3.6	3.8			0.33	
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		2.4	11			0.38	
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		2	1			<0.03	
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		13	56			1.9	
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		0.43	1.3			<0.03	
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		0.74	1.7			0.06	
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		0.49	3.2			0.11	
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		0.28	5.6			0.06	
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		0.43	**6.2**			0.09	
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		0.35	**5.9**			0.14	
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		0.1	1.3			0.04	
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		0.5	4.2			0.15	
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01			<0.01	
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01			<0.01	
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		0.14	<0.01			<0.01	
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		0.1					
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		0.14					
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		0.49	<0.01			<0.01	
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0						<0.04	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP213	TP213	TP214	TP214	TP215	TP216
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									Sample Depth (mbgl)	4	0.3	1	3	2	1
									Sample Date	07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0		0.01					
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0		<0.01					
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0		0.29					
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0		<0.01					
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0		<0.01					
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0		0.19					
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.01					
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0		<0.1					
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0		<0.1					
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0		<0.1					
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1					
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.01					
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		0.05					
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

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Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0	<0.1					
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0	<0.01					
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0	<0.01					
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0	<0.1					
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0	<0.1					
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1					
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0	<0.1					
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0	<0.1					
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0	<0.01					
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.01					
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0	<0.1					
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0	<0.1					
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0	0.06					
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0	<0.01					
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0	<0.1					
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0	0.29					
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0	<0.01					
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0	<0.01					
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.01					
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0	0.06					
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.01					
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.01					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP213	TP213	TP214	TP214	TP215	TP216
Sample Ref					14	2	4	10	8	5
Easting					384823.539	384823.539	384429.18	384429.18	384601.36	384495.068
Northing					399770.354	399770.354	399548.501	399548.501	399627.554	399605.846
Hole Elevation (mOD)					43.311	43.311	40.247	40.247	41.28	40.799
Sample Depth (mbgl)					4	0.3	1	3	2	1
Sample Date					07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
Investigation					NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology					MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0		
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0		
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0		
Herbicides										
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0		
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0		
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0		
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0		
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0		
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0		
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0		
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0		
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0		
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0		
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0		
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0		
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0		
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0		
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0		
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0		
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0		
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0		
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0		
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0		
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0		
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0		
Propham		mg/kg	No GAC	-	<0.1	<0.1		0		
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0		
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0		
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP213	TP213	TP214	TP214	TP215	TP216
Sample Ref					14	2	4	10	8	5
Easting					384823.539	384823.539	384429.18	384429.18	384601.36	384495.068
Northing					399770.354	399770.354	399548.501	399548.501	399627.554	399605.846
Hole Elevation (mOD)					43.311	43.311	40.247	40.247	41.28	40.799
Sample Depth (mbgl)					4	0.3	1	3	2	1
Sample Date					07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
Investigation					NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology					MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

Hole Ref	TP213	TP213	TP214	TP214	TP215	TP216
Sample Ref	14	2	4	10	8	5
Easting	384823.539	384823.539	384429.18	384429.18	384601.36	384495.068
Northing	399770.354	399770.354	399548.501	399548.501	399627.554	399605.846
Hole Elevation (mOD)	43.311	43.311	40.247	40.247	41.28	40.799
Sample Depth (mbgl)	4	0.3	1	3	2	1
Sample Date	07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0	<0.1					
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0	36				<10	
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0	<0.01				<0.01	
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0					19	
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0					<0.01	
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP213	TP213	TP214	TP214	TP215	TP216
Sample Ref	14	2	4	10	8	5
Easting	384823.539	384823.539	384429.18	384429.18	384601.36	384495.068
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Sample Depth (mbgl)	4	0.3	1	3	2	1
Sample Date	07/04/21	07/04/21	08/04/21	08/04/21	01/04/21	08/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-CO	MG-G	MG-CO	MG-G	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0						
Titanium		mg/kg	No GAC	-	67	420		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0						
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0		75				<10
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0		110				<10
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
									Sample Ref	13	10	4	8	5	2
									Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
									Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
									Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
									Sample Depth (mbgl)	3	3	1	2	1	0.2
									Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<1	<1	5.1	1.1	4.1	3.4
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		6.2	5.9	37	12	44	21
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.6	0.4	1.3	0.6	2	1.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.2	0.2	2.4	0.1	2.4	0.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		13	8.7	26	25	18	10
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1			<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		25	21	230	27	280	130
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		12	11	160	50	170	100
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		<0.05	0.23	<0.05	0.14	<0.05	0.06
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		22	14	38	19	50	43
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		18	12	75	18	64	39
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		58	44	780	43	910	170
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8	8.2	7.7	7.2	7.4	6.8
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<0.1	<0.1	0.5	0.7	0.3	0.3
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.2	2.4	1.1	0.3	0.4	0.3
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.2	<0.5	13	1.3	5.1	4.6
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD			NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na			na	na	na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0					<1.5	<1.5	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2					<1.2	<1.2	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6					<1.5	<1.5	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14					<3.4	<3.4	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2					<3.4	<3.4	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0					<0.01	<0.01	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0					<0.01	<0.01	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0					<0.01	<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0
PAH								
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0
Pah,Total		mg/kg	No GAC	-	<0.1	100		0
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0
BTEX								
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0
PCBs								
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0

Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
Sample Ref	13	10	4	8	5	2
Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
Sample Depth (mbgl)	3	3	1	2	1	0.2
Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35						
Total Aliphatics						
Aro >C10-C12				<0.9	<0.9	
Aro >C12-C16				<0.5	<0.5	
Aro >C16-C21				<0.6	<0.6	
Aro >C21-C35				<1.4	<1.4	
Aro >C35-C44				<1.4	<1.4	
Aro >C7-C8				<0.01	<0.01	
Aro >C8-C10				<0.01	<0.01	
Mineral Oil (>C10-C40)						
TPH (Ali & Aro >C5-C35)						
TPH (Ali & Aro >C5-C44)						
TPH >C10-40						<10
PAH						
Acenaphthene	<0.03			<0.03	<0.03	
Dibenz-a-h-anthracene	<0.03			<0.03	<0.03	
Fluoranthene	<0.03			<0.03	0.2	
Fluorene	<0.03			<0.03	<0.03	
Indeno(1,2,3-cd)pyrene	<0.03			<0.03	0.04	
Phenanthrene	<0.03			<0.03	0.11	
Pyrene	<0.03			<0.03	0.23	
Naphthalene	<0.03			<0.03	<0.03	
PAH (total 17)						
Total PAH-16MS						
Pah,Total	<0.1			<0.1	1	<1.6
Acenaphthylene	<0.03			<0.03	<0.03	
Anthracene	<0.03			<0.03	0.06	
Benzo(a)anthracene	<0.03			<0.03	0.08	
Benzo (g,h,i) perylene	<0.03			<0.03	0.04	
Benzo(a)pyrene	<0.03			<0.03	0.07	
Benzo(b)fluoranthene	<0.03			<0.03	0.1	
Benzo(k)fluoranthene	<0.03			<0.03	0.04	
Chrysene	<0.03			<0.03	0.1	
BTEX						
BTEX - Benzene	<0.01			<0.01	<0.01	<0.01
BTEX - Toluene	<0.01			<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	<0.01			<0.01	<0.01	<0.01
BTEX - m & p Xylene						
BTEX - o Xylene						
Xylene	<0.01			<0.01	<0.01	<0.01
BTEX and MTBE Total						
BTEX (total)						<0.04
PCBs						
PCB BZ 105						
PCB BZ 114						
PCB BZ 118						
PCB BZ 123						
PCB BZ 126						
PCB BZ 156						
PCB BZ 157						
PCB BZ 167						
PCB BZ 169						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
									Sample Ref	13	10	4	8	5	2
									Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
									Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
									Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
									Sample Depth (mbgl)	3	3	1	2	1	0.2
									Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
Sample Ref	13	10	4	8	5	2
Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
Sample Depth (mbgl)	3	3	1	2	1	0.2
Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0						
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0						
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0						
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0						
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0						
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0						
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0						
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0						
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0						
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0						
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0						
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0						
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0						
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0						
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0						
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0						
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0						
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0						
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0						
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0						
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0						
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0						
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0						
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
Sample Ref	13	10	4	8	5	2
Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
Sample Depth (mbgl)	3	3	1	2	1	0.2
Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0						
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0						
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0						
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0						
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0						
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0						
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0						
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0						
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0						
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0						
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0						
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0						
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0						
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0						
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0						
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0						
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Propham		mg/kg	No GAC	-	<0.1	<0.1		0						
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0						
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0						
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP216	TP217	TP217	TP218	WS201	WS205
Sample Ref					13	10	4	8	5	2
Easting					384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
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Hole Elevation (mOD)					40.799	41.342	41.342	40.52	43.51	42.123
Sample Depth (mbgl)					3	3	1	2	1	0.2
Sample Date					08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation					NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									TP216	TP217	TP217	TP218	WS201	WS205
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Sample Depth (mbgl)									3	3	1	2	1	0.2
Sample Date									08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation									NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology									MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
									RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0						
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0				<10	<10	
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0				<0.01	<0.01	
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0						11
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0						<0.01
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	<5		0
Titanium		mg/kg	No GAC	-	67	420		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-	76	101		0
Total Aromatics		mg/kg	No GAC	-	<1	6340		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-				0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols, Total		mg/kg	No GAC	-	<5	<5		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP216	TP217	TP217	TP218	WS201	WS205
Sample Ref	13	10	4	8	5	2
Easting	384495.068	384573.297	384573.297	384529.73	384733.24	384682.789
Northing	399605.846	399653.391	399653.391	399585.19	399783.67	399673.896
Hole Elevation (mOD)	40.799	41.342	41.342	40.52	43.51	42.123
Sample Depth (mbgl)	3	3	1	2	1	0.2
Sample Date	08/04/21	07/04/21	07/04/21	06/04/21	29/03/21	06/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-CO	MG-G	MG-CO	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aromatics >C10-44				<10	<10	
Total Aliphatics and Aromatics C10-C44				<10	<10	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
									Sample Ref	21	22	5	9	13	2
									Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
									Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
									Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
									Sample Depth (mbgl)	2	3	1	3	5	0.3
									Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		12		1.1	<1	1	
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		**65**		13	6	8.6	
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		**2.3**		0.9	0.9	0.8	
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.4		0.3	0.2	0.3	
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		81		21	23	20	
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1		<1			
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		820		45	26	26	
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		**1400**		44	13	13	
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.51		<0.05	<0.05	<0.05	
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		56		19	28	25	
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5		<0.5	<0.5	<0.5	
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		380		33	26	25	
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		110		88	53	54	
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		6.6		5.4	7.8	7.8	
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.6		0.1	<0.1	<0.1	
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.4		1	0.5	0.3	
Total Organic Carbon		%	No GAC	-	<0.1	54		0		12	27	3	0.6	0.6	16
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0				0.012			
Asbestos (Presence of)		---	No GAC	-				0		NAD		Chrysotile			
Asbestos Analysts Comments		---	No GAC	-				0		na		Chrysotile in microscopic loose fibrous asbestos debris and bundles in soil			
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3		<0.3	<0.3	<0.3	
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5					
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2					
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5					
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4					
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4					
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01					
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01					
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0
PAH								
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0
Pah,Total		mg/kg	No GAC	-	<0.1	100		0
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0
BTEX								
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0
PCBs								
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0

WS205	WS205	WS207	WS207	WS207	WS210	
21	22	5	9	13	2	
384682.789	384682.789	384628.92	384628.92	384628.92	384519.681	
399673.896	399673.896	399674.79	399674.79	399674.79	399609.597	
42.123	42.123	41.91	41.91	41.91	40.881	
2	3	1	3	5	0.3	
16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21	
NW1604	NW1604	NW1604	NW1604	NW1604	NW1604	
MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
<0.9						
<0.5						
<0.6						
<1.4						
<1.4						
<0.01						
<0.01						
	26					96
<0.03		<0.03				
<0.03		<0.03				
0.09		<0.03				
<0.03		<0.03				
<0.03		<0.03				
0.4	<1.6	<0.1				21
<0.03		<0.03				
<0.03		<0.03				
0.04		<0.03				
<0.03		<0.03				
<0.03		<0.03				
0.04		<0.03				
<0.03		<0.03				
0.04		<0.03				
<0.01	<0.01	<0.01				<0.01
<0.01	<0.01	<0.01				<0.01
<0.01	<0.01	<0.01				<0.01
<0.01	<0.01	<0.01				<0.01
	<0.04					<0.04

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
									Sample Ref	21	22	5	9	13	2
									Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
									Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
									Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
									Sample Depth (mbgl)	2	3	1	3	5	0.3
									Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
Sample Ref	21	22	5	9	13	2
Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
Sample Depth (mbgl)	2	3	1	3	5	0.3
Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0						
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0						
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0						
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0						
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0						
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0						
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0						
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0						
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0						
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0						
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0						
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0						
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0						
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0						
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0						
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0						
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0						
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0						
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0						
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0						
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0						
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0						
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0						
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
									Sample Ref	21	22	5	9	13	2
									Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
									Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
									Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
									Sample Depth (mbgl)	2	3	1	3	5	0.3
									Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

WS205	WS205	WS207	WS207	WS207	WS210	
21	22	5	9	13	2	
384682.789	384682.789	384628.92	384628.92	384628.92	384519.681	
399673.896	399673.896	399674.79	399674.79	399674.79	399609.597	
42.123	42.123	41.91	41.91	41.91	40.881	
2	3	1	3	5	0.3	
16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21	
NW1604	NW1604	NW1604	NW1604	NW1604	NW1604	
MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
									Sample Ref	21	22	5	9	13	2
									Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
									Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
									Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
									Sample Depth (mbgl)	2	3	1	3	5	0.3
									Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0							
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0		<10					
Aluminium		mg/kg	No GAC	-	8270	9680		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0							
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0		<0.01					
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0							
Barium		mg/kg	No GAC	-	68	198		0							
Calcium		mg/kg	No GAC	-	8540	8540		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0							
Cobalt		mg/kg	No GAC	-	4	12		0							
Coronene		mg/kg	No GAC	-	0.04	0.12		0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	43300	43300		0							
Loss on ignition		%	No GAC	-	1.3	24		0		14					11
Magnesium		mg/kg	No GAC	-	1000	1000		0							
Manganese		mg/kg	No GAC	-	63	595		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	8		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0							
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0		<0.01					<0.01
Perylene		mg/kg	No GAC	-	<0.1	25.6		0							
Potassium		mg/kg	No GAC	-	500	500		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	530		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS205	WS205	WS207	WS207	WS207	WS210
									Sample Ref	21	22	5	9	13	2
									Easting	384682.789	384682.789	384628.92	384628.92	384628.92	384519.681
									Northing	399673.896	399673.896	399674.79	399674.79	399674.79	399609.597
									Hole Elevation (mOD)	42.123	42.123	41.91	41.91	41.91	40.881
									Sample Depth (mbgl)	2	3	1	3	5	0.3
									Sample Date	16/04/21	16/04/21	07/04/21	28/04/21	28/04/21	16/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0		<10					
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0		<10					
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
									Sample Ref	4	12	14	2	4	12
									Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
									Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
									Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
									Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
									Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		3.6	1	2.8	4.3		1.9
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		25	11	21	28		9.2
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.9	0.7	1.6	2.3		0.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		1.3	0.2	0.4	1.2		0.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		44	15	18	16		14
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1			<1		
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		170	39	96	240		39
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		110	55	41	170		44
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.14	0.09	0.14	0.92		0.16
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		35	20	43	38		22
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<0.5		<0.5
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		160	20	45	54		20
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		410	48	100	150		55
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.2	7.2	7.8	7.5		7.8
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.1	0.1	<0.1	0.2		<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		0.8	0.2	<0.2	0.5		<0.2
Total Organic Carbon		%	No GAC	-	<0.1	54		0		14	8.6	2.8	38	33	4.6
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD		NAD		NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na		na		na
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.3	<0.3	<0.3	<0.3		<0.3
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1.5			<1.5		
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1.2			<1.2		
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1.5			<1.5		
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		<3.4			<3.4		
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		<3.4			<3.4		
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01			<0.01		
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01			<0.01		
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<0.01			<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
									Sample Ref	4	12	14	2	4	12
									Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
									Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
									Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
									Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
									Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0							
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		<0.9			<0.9		
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		<0.5			3.8		
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		<0.6			21		
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		<1.4			45		
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		<1.4			<1.4		
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01			<0.01		
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		<0.01			<0.01		
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0							
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						290	
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.03	<0.03		1.9		<0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.03	<0.03		0.09		<0.03
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		0.3	0.12		5.1		0.05
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.03	<0.03		1.6		<0.03
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		0.03	<0.03		0.35		<0.03
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		0.25	0.13		8.6		0.05
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		0.31	0.12		5.6		0.05
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		0.04	0.04		5.5		<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0							
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		1.4	0.55		37	28	0.15
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03	<0.03		0.05		<0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		0.06	<0.03		1.8		<0.03
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		0.12	0.04		1.7		<0.03
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		0.03	<0.03		0.38		<0.03
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		0.05	<0.03		0.97		<0.03
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		0.1	0.05		1.3		<0.03
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		0.03	<0.03		0.53		<0.03
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		0.12	0.06		1.6		<0.03
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0							
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0							
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01		<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0						<0.04	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
									Sample Ref	4	12	14	2	4	12
									Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
									Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
									Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
									Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
									Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					WS210	WS211	WS211	WS212
Sample Ref					4	12	14	2
Easting					384519.681	384557.31	384557.31	384501.81
Northing					399609.597	399564.31	399564.31	399529.03
Hole Elevation (mOD)					40.881	39.91	39.91	39.89
Sample Depth (mbgl)					0.7	4	5	0.2
Sample Date					16/04/21	28/04/21	28/04/21	16/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-CO	MG-CO	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
									Sample Ref	4	12	14	2	4	12
									Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
									Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
									Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
									Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
									Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					WS210	WS211	WS211	WS212
Sample Ref					4	12	14	2
Easting					384519.681	384557.31	384557.31	384501.81
Northing					399609.597	399564.31	399564.31	399529.03
Hole Elevation (mOD)					40.881	39.91	39.91	39.89
Sample Depth (mbgl)					0.7	4	5	0.2
Sample Date					16/04/21	28/04/21	28/04/21	16/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-CO	MG-CO	MG-G
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

1 3 4 2

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
Sample Ref	4	12	14	2	4	12
Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	WS210 RB Plateau	WS211 RB Plateau	WS211 RB Plateau	WS212 RB Plateau	WS212 RB Plateau	WS212 RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0						
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0	<10			<10		
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0	<0.01			<0.01		
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0						
Asbestos in soil		-	No GAC	-				0						
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0						
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0						
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						Profile indicativ
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0					12	
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0					<0.01	
Perylene		mg/kg	No GAC	-	<0.1	25.6		0						
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS210	WS211	WS211	WS212	WS212	WS212
									Sample Ref	4	12	14	2	4	12
									Easting	384519.681	384557.31	384557.31	384501.81	384501.81	384501.81
									Northing	399609.597	399564.31	399564.31	399529.03	399529.03	399529.03
									Hole Elevation (mOD)	40.881	39.91	39.91	39.89	39.89	39.89
									Sample Depth (mbgl)	0.7	4	5	0.2	0.6	4
									Sample Date	16/04/21	28/04/21	28/04/21	16/04/21	16/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-CO	MG-CO	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0			<10			59	
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0			<10			59	
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
									Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
									Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		1.3	1.1	<1			
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		13	8.4	3.6	<1	16	5
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.8	0.6	0.4			
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		0.3	<0.1	<0.1	1.5	3.5	0.9
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		18	18	11	31	60	30
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0		<1	<1		<1	<1	<1
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		38	23	11	121	121	43
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		32	26	7	50	116	24
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.38	0.19	<0.05	0.53	0.25	1.85
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		16	14	11	33	61	26
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<0.5	<0.5	<0.5	<1	<1	<1
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		28	28	13			
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		81	41	26	135	309	66
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.1	7.7	7.5	8.51	8.26	8.77
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0					3.5	10.1	3.3
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0							
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		0.6	<0.1	<0.1	<1	<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		1.3	0.5	0.3	<1	<1	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0		2.5	1.2	<0.5			
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD				
Asbestos Analysts Comments		---	No GAC	-				0		na	na				
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		2.7	<0.3	<0.3	<0.2	<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			<1.5		1	1	2
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			<1.2		2	3	4
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			<1.5		5	12	6
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			<3.4		140	298	32
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2			<3.4		37	85	9
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01		<0.01	<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			<0.01		<0.01	<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			<0.01		2	1	3

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
									Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
									Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0					150	316	48
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0					188	400	57
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<0.9		3	2	3
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<0.5		9	8	14
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<0.6		21	27	30
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			<1.4		39	62	44
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			<1.4		22	58	3
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01		<0.01	<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<0.01		3	2	2
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0					226	417	142
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0					285	560	154
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		<0.03	<0.03		0.05	0.04	0.02
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		<0.03	<0.03		<0.04	0.09	<0.04
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		0.06	<0.03		0.7	0.93	0.46
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		<0.03	<0.03		0.03	0.03	0.02
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		<0.03	<0.03		0.15	0.48	0.17
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		0.08	<0.03		0.41	0.39	0.27
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		0.05	<0.03		0.59	0.88	0.44
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		0.06	<0.03		0.07	0.08	0.1
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0					0.05	0.12	0.04
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0					3.42	6.36	2.82
Pah,Total		mg/kg	No GAC	-	<0.1	100		0		0.25	<0.1				
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		<0.03	<0.03		0.04	0.11	0.03
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		<0.03	<0.03		0.21	0.49	0.13
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		<0.03	<0.03		0.22	0.41	0.2
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		<0.03	<0.03		0.12	0.41	0.14
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		<0.03	<0.03		0.22	0.57	0.24
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		<0.03	<0.03		0.27	0.73	0.29
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		<0.03	<0.03		0.1	0.28	0.1
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		<0.03	<0.03		0.24	0.44	0.21
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01	<0.01		<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01	<0.01		<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01	<0.01		<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0					<0.01	<0.01	<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0					<0.01	<0.01	<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0		<0.01	<0.01				
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
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									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0					<0.001	<0.001	<0.001
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0					<0.003	<0.003	<0.003
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0					<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0					<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0					<0.002	<0.002	<0.002
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0					<0.002	<0.002	<0.002
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0					<0.001	<0.001	<0.001
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
									Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
									Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0							
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0					<0.005	<0.005	<0.005
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0					<0.01	<0.01	<0.01
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001	<0.001
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0							
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0							
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0					<0.001	<0.001	<0.001
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0					<0.001	<0.001	<0.001
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0					<0.01	<0.01	<0.01
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0							
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0							
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0							
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0					<0.003	<0.003	<0.003
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0					<0.005	<0.005	<0.005
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0							
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0							
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0							
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0					<0.01	<0.01	<0.01
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0							
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0					<0.001	<0.001	<0.001
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0					<0.002	<0.002	<0.002
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001	<0.001
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	<0.001	<0.001
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001	<0.001

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
									Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
									Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

WS213A	WS213A	WS214	BAL01	BAL02	BAL03
2	5	6	WA1034026	WA1034027	WA1034028
384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
399535.74	399535.74	399536.111	399510.72	399550	399815.85
39.95	39.95	39.888	39.77	40.18	43.33
1	2	2	0	0	0
08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
NW1604	NW1604	NW1604	326R	326R	326R
MG-CO	MG-CO	MG-G			
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
Sample Depth (mbgl)	1	2	2	0	0	0
Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
Investigation	NW1604	NW1604	NW1604	326R	326R	326R
Geology	MG-CO	MG-CO	MG-G			
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)						
trans-Chlordane (Gamma)						
2,3,5,6-Tetrachlorophenol						
2,4,5-T						
2,4-DP; (Dichlorprop)						
3+4-Methylphenol						
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44		<10				
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7		<0.01		<0.01	<0.01	<0.01
Asbestos ACM - Suitable for Water Absorption Test?				N/A	N/A	N/A
Asbestos in soil				NAD	NAD	NAD
Asbestos in soil % composition (hand picking and weighing)						
Barium						
Calcium						
Chloride (water sol 2:1)						
Cobalt						
Coronene				0.05	0.12	0.04
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane				<0.001	<0.001	<0.001
Dry Matter (Dry Solids) at 40C						
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition						
Magnesium						
Manganese						
Mass Sample (1 stage WAC)						
Methabenzthiazuron						
Molybdenum						
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total						
Perylene						
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						

re of PAHs, lube oil, humic substances and other heavier hydrocarbons ier hydrocarbons ier hydrocarbons

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS213A	WS213A	WS214	BAL01	BAL02	BAL03
									Sample Ref	2	5	6	WA1034026	WA1034027	WA1034028
									Easting	384432.45	384432.45	384420.108	384412.01	384443.06	384749.56
									Northing	399535.74	399535.74	399536.111	399510.72	399550	399815.85
									Hole Elevation (mOD)	39.95	39.95	39.888	39.77	40.18	43.33
									Sample Depth (mbgl)	1	2	2	0	0	0
									Sample Date	08/04/21	16/04/21	28/04/21	06/04/22	06/04/22	06/04/22
									Investigation	NW1604	NW1604	NW1604	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G			
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0					76	101	94
Total Aromatics		mg/kg	No GAC	-	<1	6340		0					97	159	97
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0			<10				
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0							
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0				<10			
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref									BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref									1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
Easting									384844.51	384719.84	384719.84	384618.46	384618.46	384618.46
Northing									399764.94	399660.22	399660.22	399600.49	399600.49	399600.49
Hole Elevation (mOD)									41.94	42.3	42.3	41.18	41.18	41.18
Sample Depth (mbgl)									2.9	0.5	7.5	5	0.5	1
Sample Date									10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation									326R	326R	326R	326R	326R	326R
Geology									MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal														
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0	<5	<5		<5	<5	
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0	7	**45**		27	21	
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0	0.6	1		1.3	1.6	
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0	0.8	3.5		2.3	4.7	
Chromium	907	mg/kg	131 of 131	0	4.8	470		0	11	15		18	16	
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0	<1	<1				
Copper	7130	mg/kg	131 of 131	0	9.1	820		0	25	92		103	182	
Lead	310	mg/kg	131 of 131	19	6.4	1400		0	110	130		90	**547**	
Manganese		mg/kg	No GAC	-				0						
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0	0.18	<0.17		<0.17	<0.17	
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0	13	22		43	29	
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0	<1	2		<1	<1	
Vanadium	1200	mg/kg	128 of 128	0	7	640		0	16	26		26	48	
Zinc	40400	mg/kg	131 of 131	0	26	1300		0	35	355		224	1300	
Inorganic														
pH		pH Units	No GAC	-	4.52	10.9		0	8.31	6.13		7.64	7.38	
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0						
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0	<0.1	1.9	<0.1	5.3	32.9	45.7
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0	<1	<1		<1	<1	
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0		<1				
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0		<1				
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0	<5	<5				
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0	<1	<1		<1	<1	
Total Organic Carbon		%	No GAC	-	<0.1	54		0	1.51	34.2	16.2	21.1	18.9	13.4
Sulphate (acid soluble)		mg/kg	No GAC	-				0						
Asbestos														
Asbestos Matrix (microscope)		-	No GAC	-				0						
Asbestos Matrix (visual)		-	No GAC	-				0						
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0						
Asbestos (Presence of)		---	No GAC	-				0						
Asbestos Analysts Comments		---	No GAC	-				0						
Phenol and mineral oils														
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0	<0.1	<0.1				
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0	<0.2	<0.2		<0.2	<0.2	
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0						
Xylenols		mg/kg	No GAC	-				0						
TPH														
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0	1	10		<1	4	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2	6	18		<1	7	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6	6	17		<1	8	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14	5	17		4	25	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2	10	3		3	2	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0	<0.01	<0.05		<0.05	<0.05	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0	<0.01	<0.05		<0.05	<0.05	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0	1	13		<1	10	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0
PAH								
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0
Pah,Total		mg/kg	No GAC	-	<0.1	100		0
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0
BTEX								
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0
PCBs								
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0

BH301D	BH303	BH303	BH304	BH304	BH304	
1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0	
384844.51	384719.84	384719.84	384618.46	384618.46	384618.46	
399764.94	399660.22	399660.22	399600.49	399600.49	399600.49	
41.94	42.3	42.3	41.18	41.18	41.18	
2.9	0.5	7.5	5	0.5	1	
10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22	
326R	326R	326R	326R	326R	326R	
MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G	
RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
29	79		8	55		
7	12		<1	9		
25	48		1	27		
20	66		2	32		
104	77		4	44		
13	2		2	2		
<0.01	<0.05		<0.05	<0.05		
4	9		<1	6		
		37			14	
203	292		18	175		
0.1	0.13		1.23	0.1		
0.47	<0.04		0.14	0.13		
0.5	0.75		5.41	1.85		
0.13	0.07		0.81	0.08		
2.62	0.16		0.53	0.49		
1	0.86		7.43	1.01		
1.15	0.74		5.02	1.8		
2.86	0.23		2.03	0.36		
		23.8			1.82	
23.6	4.81		31.8	11.6		
1.67	0.01		0.03	0.02		
0.54	0.13		1.35	0.23		
0.41	0.34		1.95	1.14		
3.76	0.15		0.44	0.4		
4.66	0.28		1.31	1.05		
2.38	0.37		1.56	1.26		
0.66	0.16		0.59	0.55		
0.72	0.43		1.97	1.16		
<0.01	<0.05		<0.05	<0.05		
<0.01	<0.05		<0.05	<0.05		
<0.01	<0.05		<0.05	<0.05		
<0.01	<0.05		<0.05	<0.05		
<0.01	<0.05		<0.05	<0.05		
		<0.01			<0.05	
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		
<0.007	<0.007			<0.007		
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		
<0.005	<0.005			<0.005		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref								1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
Easting								384844.51	384719.84	384719.84	384618.46	384618.46	384618.46
Northing								399764.94	399660.22	399660.22	399600.49	399600.49	399600.49
Hole Elevation (mOD)								41.94	42.3	42.3	41.18	41.18	41.18
Sample Depth (mbgl)								2.9	0.5	7.5	5	0.5	1
Sample Date								10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation								326R	326R	326R	326R	326R	326R
Geology								MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
Contaminant Name	**GAC**	**Units**	**Total > LOD**	**Total > GAC**	**Min**	**Max**	**Saturation Value**	**Total > Saturation**	**RB05b School**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0	<0.005	<0.005			<0.005	
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0	<0.005	<0.005			<0.005	
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0	<0.005	<0.005			<0.005	
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0	<0.007	<0.007			<0.007	
VOCs/SVOCs														
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0	<0.001	<0.001				
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0	<0.003	<0.003				
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0	<0.003	<0.003				
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0	<0.001	<0.001				
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0	<0.002	<0.002				
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0	<0.002	<0.002				
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0	<0.001	<0.001				
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0						
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0	<0.1	<0.1				
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0	1.13	1.16				
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0						
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0						
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref	1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
Easting	384844.51	384719.84	384719.84	384618.46	384618.46	384618.46
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Hole Elevation (mOD)	41.94	42.3	42.3	41.18	41.18	41.18
Sample Depth (mbgl)	2.9	0.5	7.5	5	0.5	1
Sample Date	10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0	<0.5	<0.5				
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0	<0.005	<0.005				
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0	<0.01	<0.01				
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0	<0.001	<0.001				
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0	<0.1	0.162				
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0	<0.001	<0.001				
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0	<0.001	<0.001				
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0	<0.01	<0.01				
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0	<0.1	<0.1				
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0	<0.5	<0.5				
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0	<0.1	0.524				
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0	<0.003	<0.003				
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0	<0.005	<0.005				
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0	<0.1	<0.1				
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0	<0.1	<0.1				
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0	<0.1	<0.1				
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0	<0.01	<0.05	<0.05	<0.05		
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0	<0.1	<0.1				
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0	<0.001	<0.001				
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0	<0.002	<0.002				
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0	<0.001	<0.001				
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0	<0.001	<0.001				
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1	<0.1				
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0	<0.001	<0.001				
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.001	<0.001				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref	1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
Easting	384844.51	384719.84	384719.84	384618.46	384618.46	384618.46
Northing	399764.94	399660.22	399660.22	399600.49	399600.49	399600.49
Hole Elevation (mOD)	41.94	42.3	42.3	41.18	41.18	41.18
Sample Depth (mbgl)	2.9	0.5	7.5	5	0.5	1
Sample Date	10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0						
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0						
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0						
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0						
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0						
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0						
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0						
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0						
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0						
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0						
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0						
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0						
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0						
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0						
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0						
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0						
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Propham		mg/kg	No GAC	-	<0.1	<0.1		0						
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0						
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0						
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref	1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
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Sample Depth (mbgl)	2.9	0.5	7.5	5	0.5	1
Sample Date	10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

BH301D	BH303	BH303	BH304	BH304	BH304	
1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0	
384844.51	384719.84	384719.84	384618.46	384618.46	384618.46	
399764.94	399660.22	399660.22	399600.49	399600.49	399600.49	
41.94	42.3	42.3	41.18	41.18	41.18	
2.9	0.5	7.5	5	0.5	1	
10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22	
326R	326R	326R	326R	326R	326R	
MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G	
RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
<0.1	<0.1					
	9680					
<0.01	<0.05		<0.05	<0.05		
N/A	N/A		N/A	N/A		
NAD	NAD		NAD	NAD		
5						
<0.001	<0.001					
			80.5		84.1	
245	411					
			0.217		0.208	
			<0.007		<0.007	
0.209	0.293					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH301D	BH303	BH303	BH304	BH304	BH304
Sample Ref	1D-X-2.90-ES7-2	326R.BH303.ES0	326R.BH303.ES0	326R.BH304.ES0	326R.BH304.ES0	326R.BH304.ES0
Easting	384844.51	384719.84	384719.84	384618.46	384618.46	384618.46
Northing	399764.94	399660.22	399660.22	399600.49	399600.49	399600.49
Hole Elevation (mOD)	41.94	42.3	42.3	41.18	41.18	41.18
Sample Depth (mbgl)	2.9	0.5	7.5	5	0.5	1
Sample Date	10/04/22	14/02/22	14/02/22	16/02/22	16/02/22	16/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB05b School	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0		<5				
Titanium		mg/kg	No GAC	-	67	420		0		67				
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0	174	213		10	120	
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0						
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0						
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
									Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
									Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
									Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
									Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
									Sample Depth (mbgl)	14	13	0.5	1	5	1
									Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0			<5		<5	<5	5
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0			5		27	3	11
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0			0.7		1.6	1	0.7
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0			1.1		1.4	0.9	1.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0			12		12	25	12
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0							
Copper	7130	mg/kg	131 of 131	0	9.1	820		0			31		110	19	45
Lead	310	mg/kg	131 of 131	19	6.4	1400		0			27		79	14	160
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0			<0.17		<0.17	<0.17	<0.17
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0			21		26	26	13
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0			<1		2	<1	2
Vanadium	1200	mg/kg	128 of 128	0	7	640		0			16		33	25	18
Zinc	40400	mg/kg	131 of 131	0	26	1300		0			69		110	49	165
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0			7.18		4.52	8.88	7.72
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		<0.1	0.9	9.6	6.6	2	15.4
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0			<1		<1	<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0			<1		<1	<1	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0		1.23	2.28	45.2	48.5	0.75	3.13
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0						<0.1	
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0			<0.2		<0.2	<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			5		35	<1	<1
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			11		63	<1	<1
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			14		54	<1	<1
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			31		64	2	11
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2			5		8	<1	5
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01		<0.05	<0.05	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			0.01		<0.05	<0.05	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			7		47	<1	<1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
									Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
									Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
									Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
									Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
									Sample Depth (mbgl)	14	13	0.5	1	5	1
									Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0			74		272	2	16
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			32		34	<1	<1
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			26		81	2	4
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			39		117	3	15
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			87		193	3	46
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			2		2	<1	3
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01		<0.05	<0.05	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			5		38	<1	<1
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0		<10		76	152		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0			266		739	11	84
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			0.01		0.72	<0.01	0.03
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.04		**0.53**	<0.04	0.05
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			0.17		7.32	<0.08	0.54
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			0.01		0.34	<0.01	0.02
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			0.07		2.19	<0.03	0.26
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			0.15		5.17	<0.03	0.33
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			0.15		7.76	<0.07	0.54
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			<0.03		1.37	<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0		<0.08		198	48.5		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0			1.03		47.9	<0.08	3.53
Pah,Total		mg/kg	No GAC	-	<0.1	100		0							
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.01		<0.01	<0.01	<0.01
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			0.04		0.72	<0.02	0.08
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			0.07		3.43	<0.04	0.27
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			0.07		2.26	<0.05	0.24
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			0.1		**4.27**	<0.04	0.34
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.1		**5.14**	<0.05	0.35
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			<0.07		1.91	<0.07	0.14
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.09		4.74	<0.06	0.34
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0			<0.01		<0.05	<0.05	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0			<0.01		<0.05	<0.05	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0			<0.01		<0.05	<0.05	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0			<0.01		<0.05	<0.05	<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0			<0.01		<0.05	<0.05	<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0							
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.01		<0.05	<0.05		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0					<0.007		
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
									Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
									Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
									Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
									Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
									Sample Depth (mbgl)	14	13	0.5	1	5	1
									Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0					<0.005		
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0					<0.007		
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0						<0.001	
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0						<0.003	
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0						<0.003	
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0						<0.001	
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0						<0.002	
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0						<0.002	
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0						<0.001	
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0						<0.001	
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0						<0.1	
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0						<0.1	
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0						<0.1	
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
Sample Ref	326R.BH304.ES1	826R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	826R.BH312.ES0
Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
Sample Depth (mbgl)	14	13	0.5	1	5	1
Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0					<0.5	
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0					<0.005	
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0					<0.01	
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0					<0.1	
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0					<0.1	
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0					<0.001	
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0					<0.001	
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0					<0.01	
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0					<0.1	
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0					<0.5	
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0					<0.1	
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0					<0.003	
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0					<0.005	
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0					<0.1	
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0					<0.1	
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0					<0.1	
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0					<0.001	
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0	<0.01		<0.05		<0.05	<0.01
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0					<0.1	
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0					<0.001	
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0					<0.002	
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0					<0.001	
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0					<0.001	
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
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Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
Sample Depth (mbgl)	14	13	0.5	1	5	1
Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0						
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0						
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0						
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0						
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0						
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0						
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0						
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0						
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0						
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0						
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0						
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0						
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0						
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0						
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0						
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0						
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Propham		mg/kg	No GAC	-	<0.1	<0.1		0						
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0						
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0						
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
Sample Ref	326R.BH304.ES1	626R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	626R.BH312.ES0
Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
Sample Depth (mbgl)	14	13	0.5	1	5	1
Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
Sample Depth (mbgl)	14	13	0.5	1	5	1
Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0					<0.1	
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0						
Aluminium		mg/kg	No GAC	-	8270	9680		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0		<0.01		<0.05	<0.05	<0.01
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0		N/A		N/A	N/A	N/A
Asbestos in soil		-	No GAC	-				0		NAD		NAD	NAD	NAD
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0						
Barium		mg/kg	No GAC	-	68	198		0					154	
Calcium		mg/kg	No GAC	-	8540	8540		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0					13	
Cobalt		mg/kg	No GAC	-	4	12		0						
Coronene		mg/kg	No GAC	-	0.04	0.12		0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0	86.7		78.2	77.9		
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	43300	43300		0						
Loss on ignition		%	No GAC	-	1.3	24		0					2.5	
Magnesium		mg/kg	No GAC	-	1000	1000		0						
Manganese		mg/kg	No GAC	-	63	595		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0	0.202		0.224	0.225		
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	8		0					<1	
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0						
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0	<0.007		<0.007	<0.007		
Perylene		mg/kg	No GAC	-	<0.1	25.6		0					<0.1	
Potassium		mg/kg	No GAC	-	500	500		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	530		0					530	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH304	BH304	BH305	BH305	BH311	BH312
Sample Ref	326R.BH304.ES1	326R.BH304.ES1	326R.BH305.ES0	326R.BH305.ES0	326R.BH311.ES0	326R.BH312.ES0
Easting	384618.46	384618.46	384525.98	384525.98	384411.7	384382.83
Northing	399600.49	399600.49	399549.39	399549.39	399557.68	399519.93
Hole Elevation (mOD)	41.18	41.18	39.77	39.77	46.2	45.6
Sample Depth (mbgl)	14	13	0.5	1	5	1
Sample Date	16/02/22	18/02/22	01/03/22	07/03/22		10/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	GTD - CO	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0					<5	
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0						
Titanium		mg/kg	No GAC	-	67	420		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0		192		466	9	68
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0						
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0						
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
									Sample Ref	326R.BH313.ES0	326R.BH313.ES0	326R.BH313.ES0	326R.BH324.ES0	326R.BH324.ES0	326R.BH326.ES0
									Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
									Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
									Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
									Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
									Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		<5				11	6
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		13				37	16
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		1				1.4	**3.6**
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		<0.5				2.5	3.3
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		28				20	24
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0						<1	
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		36				142	179
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		74				**320**	109
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		0.61				0.99	0.42
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		22				29	48
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		<1				2	<1
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		27				34	46
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		59				226	117
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		8.65				7.45	8.28
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		19.2	33.1	<0.1	<0.1	24.7	<0.1
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<1				<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		<1				<1	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0		4.48	1.75		12.4	14.2	14.8
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.2				<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0		<1				7	2
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2		<1				11	2
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6		<1				8	3
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14		4				29	17
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2		3				7	2
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0		<0.01				<0.05	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0		<0.01				<0.05	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0		<1				12	3

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
Sample Ref	326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03	326R.BH324.ES03	326R.BH326.ES0
Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0						
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0	8				75	31
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0	<1				52	2
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0	4				94	6
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0	15				172	7
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0	69				267	12
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0	2				5	<1
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0	<0.01				<0.05	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0	<1				8	2
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0		17		20		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0						
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0	100				674	60
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						
PAH														
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0	0.03				2.02	0.01
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0	<0.04				0.28	<0.04
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0	0.57				8.04	0.22
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0	0.02				1.37	0.02
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0	0.14				0.97	0.06
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0	0.23				11.5	0.31
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0	0.65				7.22	0.22
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0	<0.03				10.2	0.28
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0		0.87		4.21		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0	3.22				57.2	1.6
Pah,Total		mg/kg	No GAC	-	<0.1	100		0						
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0	0.02				0.1	<0.01
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0	0.07				2.07	0.05
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0	0.27				3.52	0.08
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0	0.13				0.72	<0.05
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0	0.32				2.54	0.09
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0	0.3				2.6	0.13
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0	0.14				1.12	<0.07
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0	0.33				2.9	0.13
BTEX														
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0	<0.01				<0.05	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0	<0.01				<0.05	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0	<0.01				<0.05	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0	<0.01				<0.05	<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0	<0.01				<0.05	<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0						
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0						
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.01		<0.01		
PCBs														
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0						
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0
VOCs/SVOCs								
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
Sample Ref	326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03	326R.BH324.ES03	326R.BH326.ES0
Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
Sample Ref	326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03	326R.BH324.ES03	326R.BH326.ES0
Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0						
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0						
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0						
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0						
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0						
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0						
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0						
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0						
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0						
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0						
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0						
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0		<0.01				
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0						
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0						
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0	<0.01			<0.05	<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0		<0.1				
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0						
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0						
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0						
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0						
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0						
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0						
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0						
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH313	BH313	BH313	BH324
Sample Ref					326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03
Easting					384395.83	384395.83	384395.83	384593.99
Northing					399507.84	399507.84	399507.84	399584.6
Hole Elevation (mOD)					39.81	39.81	39.81	41
Sample Depth (mbgl)					0.5	1	0.3	5
Sample Date					22/02/22	22/02/22	23/02/22	09/04/22
Investigation					326R	326R	326R	326R
Geology					MG-G	MG-G	MG-G	MG-CO
					RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0

Contaminant Name	BH326	Total > Saturation
Hole Ref	BH326	
Sample Ref	326R.BH326.ES0	
Easting	384599	
Northing	399589	
Hole Elevation (mOD)	41.5	
Sample Depth (mbgl)	1.4	
Sample Date	11/04/22	
Investigation	326R	
Geology	MG-G	
	RB Plateau	
VOC Total (excl. BTEX)		
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		
Herbicides		
2,3,6-TBA		<0.1
2,4,5-TP; (Fenoprop); (Silvex)		<0.1
2,4-D		<0.1
2,4-DB		<0.1
4-CPA		<0.1
Ametryne		<0.2
Atraton		<0.1
Atrazine		<0.01
Benazolin		<0.1
Bentazone		<0.1
Bromacil		<0.1
Bromoxynil		<0.1
Carbetamide		<0.1
Chlorbufam		<0.1
Chlorpropham		<0.1
Chlortoluron		<0.1
Clopyralid		<0.1
Cyfluthrin		<0.1
Cyhalothrin		<0.1
Cypermethrin		<0.1
Deltamethrin		<0.1
Dicamba		<0.1
Diclofop		<0.1
Diuron		<0.1
Fenvalerate		<0.1
Flamprop		<0.1
Flamprop-isopropyl		<0.1
Ioxynil		<0.1
Isoproturon		<0.1
Linuron		<0.1
MCPA		<0.1
MCPB		<0.1
MCPP; (Mecoprop)		<0.1
Monuron		<0.1
Permethrin		<0.1
Picloram		<0.1
Pirimicarb		<0.1
Prometon		<0.1
Prometryn		<0.02
Propazine		<0.02
Propham		<0.1
Simazine		<0.01
Simetryn		<0.1
Terbuthylazine		<0.02

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
Sample Ref	326R.BH313.ES0	326R.BH313.ES0	326R.BH313.ES0	326R.BH324.ES0	326R.BH324.ES0	326R.BH326.ES0
Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0			<0.01			
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0			<0.01			
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
Sample Ref	326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03	326R.BH324.ES03	326R.BH326.ES0
Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)			<0.01			
trans-Chlordane (Gamma)			<0.01			
2,3,5,6-Tetrachlorophenol						
2,4,5-T			<0.1			
2,4-DP; (Dichlorprop)			<0.1			
3+4-Methylphenol						
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7	<0.01				<0.05	<0.01
Asbestos ACM - Suitable for Water Absorption Test?	N/A				N/A	N/A
Asbestos in soil	NAD				NAD	NAD
Asbestos in soil % composition (hand picking and weighing)						
Barium			68			
Calcium						
Chloride (water sol 2:1)			<10			
Cobalt						
Coronene						
Cresols						
Cyanazine			<0.02			
Demeton-S			<0.5			
Dichlorodifluoromethane						
Dry Matter (Dry Solids) at 40C	81.4				82.6	
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde			<0.01			
Endrin Ketone			<0.01			
Ethylene glycol (Monoethylene glycol)						
Fensulphothion			<0.01			
Fluoride (water sol 2:1)						
Fluroxypyr			<0.1			
Iron						
Loss on ignition			2.8			
Magnesium						
Manganese						
Mass Sample (1 stage WAC)	0.215				0.212	
Methabenzthiazuron			<0.1			
Molybdenum			1			
Monolinuron			<0.1			
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	0.019				<0.007	
Perylene						
Potassium						
Prothiofos (Tokuthion)			<0.01			
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide			<5			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH313	BH313	BH313	BH324	BH324	BH326
									Sample Ref	326R.BH313.ES03	326R.BH313.ES03	326R.BH313.ES03	326R.BH324.ES03	326R.BH324.ES03	326R.BH326.ES0
									Easting	384395.83	384395.83	384395.83	384593.99	384593.99	384599
									Northing	399507.84	399507.84	399507.84	399584.6	399584.6	399589
									Hole Elevation (mOD)	39.81	39.81	39.81	41	41	41.5
									Sample Depth (mbgl)	0.5	1	0.3	5	1	1.4
									Sample Date	22/02/22	22/02/22	23/02/22	09/04/22	04/04/22	11/04/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0				<5			
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0		92				599	29
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0				<0.5			
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
									Sample Ref	326R.BH326.ES0	326R.BH327.ES0	326R.BH327.ES0	326R.BH328.ES0	326R.BH328.ES0	326R.OP01.ES01
									Easting	384599	384601	384601	384625	384625	384416.31
									Northing	399589	399608	399608	399609	399609	399512.95
									Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
									Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
									Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0				9		5	21
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0				**42**		**59**	**58**
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0				**2.4**		1.5	1.2
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0				5		3.9	7.2
Chromium	907	mg/kg	131 of 131	0	4.8	470		0				25		20	42
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0							
Copper	7130	mg/kg	131 of 131	0	9.1	820		0				460		158	275
Lead	310	mg/kg	131 of 131	19	6.4	1400		0				**1020**		173	**477**
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0				1.36		<0.17	0.32
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0				46		29	69
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0				2		2	<1
Vanadium	1200	mg/kg	128 of 128	0	7	640		0				56		52	71
Zinc	40400	mg/kg	131 of 131	0	26	1300		0				908		264	684
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0				6.75		7.01	7.9
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0				4		<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0				<1		<1	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0		18.2	38	9.67	15.3	40.6	NAD
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							Loose Insulation
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0				<0.1			
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0				<0.2		<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0				<1		21	2
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2				<1		30	3
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6				<1		30	9
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14				4		31	236
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2				<1		2	47
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0				<0.01		<0.05	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0				<0.01		<0.05	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0				1		40	3

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
Northing	399589	399608	399608	399609	399609	399512.95
Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0						
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0			5		155	301
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<1		16	5
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			1		61	17
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			4		75	50
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			12		85	149
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			<1		1	32
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01		<0.05	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<1		14	4
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0	<10	<40		222		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0						
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0			23		406	557
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0						
PAH														
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			<0.01		0.1	0.2
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.04		<0.04	0.24
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			0.31		0.79	4.48
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			0.01		0.09	0.17
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			0.08		0.11	1.16
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			0.31		1.52	2.6
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			0.35		0.8	4.16
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			0.08		1.97	0.16
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0	1.12	1.81		12.3		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0			1.75		6.92	26
Pah,Total		mg/kg	No GAC	-	<0.1	100		0						
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.01		0.04	0.18
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			0.05		0.16	1.04
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			0.11		0.29	2.26
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			0.08		0.11	1.04
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			0.12		0.2	2.16
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.12		0.29	2.64
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			<0.07		0.09	1.02
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.13		0.36	2.51
BTEX														
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0			<0.01		<0.05	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0			<0.01		<0.05	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0			<0.01		<0.05	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0			<0.01		<0.05	<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0			<0.01		<0.05	<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0						
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0						
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0	<0.01	<0.01		<0.01		
PCBs														
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0						
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0						
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
									Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
									Easting	384599	384601	384601	384625	384625	384416.31
									Northing	399589	399608	399608	399609	399609	399512.95
									Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
									Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
									Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0				<0.001			
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0				<0.003			
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0				<0.003			
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0				<0.001			
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0				<0.002			
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0				<0.002			
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0				<0.001			
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0				<0.001			
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0				<0.1			
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0				<0.1			
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0				<0.1			
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
Northing	399589	399608	399608	399609	399609	399512.95
Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0			<0.5			
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0			<0.005			
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0			<0.01			
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0			<0.001			
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0			<0.1			
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0			<0.1			
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0			<0.001			
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0			<0.001			
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0			<0.01			
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1			
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0			<0.5			
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0			<0.1			
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0			<0.003			
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001			
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0			<0.005			
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0			<0.1			
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0			<0.1			
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0			<0.1			
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0			<0.001			
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0			<0.01	<0.05	<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0			<0.1			
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0			<0.001			
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0			<0.002			
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0			<0.001			
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0			<0.001			
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001			
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0			<0.001			
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001			
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
Northing	399589	399608	399608	399609	399609	399512.95
Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0						
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0						
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0						
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0						
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0						
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0						
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0						
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0						
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0						
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0						
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0						
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0						
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0						
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0						
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0						
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0						
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0						
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0						
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0						
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0						
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0						
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0						
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Propham		mg/kg	No GAC	-	<0.1	<0.1		0						
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0						
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0						
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
Northing	399589	399608	399608	399609	399609	399512.95
Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

	BH326	BH327	BH327	BH328	BH328	OP01
Hole Ref						
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
Northing	399589	399608	399608	399609	399609	399512.95
Hole Elevation (mOD)	41.5	41.3	41.3	41.4	41.4	39.57
Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)						
trans-Chlordane (Gamma)						
2,3,5,6-Tetrachlorophenol						
2,4,5-T						
2,4-DP; (Dichlorprop)						
3+4-Methylphenol			<0.1			
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7			<0.01		<0.05	<0.01
Asbestos ACM - Suitable for Water Absorption Test?			N/A		N/A	N/A
Asbestos in soil			NAD		NAD	Chrysotile
Asbestos in soil % composition (hand picking and weighing)						0.011
Barium						
Calcium						
Chloride (water sol 2:1)						
Cobalt						
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane			<0.001			
Dry Matter (Dry Solids) at 40C	79.4	78.4		79.2		
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition						
Magnesium						
Manganese						
Mass Sample (1 stage WAC)	0.22	0.223		0.221		
Methabenzthiazuron						
Molybdenum						
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.007	<0.007		<0.007		
Perylene			<0.1			
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH326	BH327	BH327	BH328	BH328	OP01
Sample Ref	326R.BH326.ES03	326R.BH327.ES03	326R.BH327.ES03	326R.BH328.ES03	326R.BH328.ES03	326R.OP01.ES01
Easting	384599	384601	384601	384625	384625	384416.31
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Sample Depth (mbgl)	3.4	2.4	7.4	1.4	2.4	0.1
Sample Date	11/04/22	11/04/22	11/04/22	11/04/22	11/04/22	07/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0						
Titanium		mg/kg	No GAC	-	67	420		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0			17		252	256
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0						
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0						
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref									OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
Sample Ref									326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
Easting									384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
Northing									399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
Hole Elevation (mOD)									40.06	42.6	42.12	44.52	43.63	42.84
Sample Depth (mbgl)									0.1	0	0	0	0	0
Sample Date									07/03/22					
Investigation									326R	326R	326R	326R	326R	326R
Geology									MG-G					
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal														
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0	21	14	<5	41	35	<5
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0	18	3	8	36	6	4
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0	<0.5	0.7	0.7	1.1	0.5	0.6
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0	3.4	1	1.2	5.5	1.1	1.8
Chromium	907	mg/kg	131 of 131	0	4.8	470		0	23	31	29	40	21	27
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0						
Copper	7130	mg/kg	131 of 131	0	9.1	820		0	129	25	79	626	41	145
Lead	310	mg/kg	131 of 131	19	6.4	1400		0	191	44	237	683	172	75
Manganese		mg/kg	No GAC	-				0						
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0	<0.17	1.05	1.01	0.27	0.88	1.47
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0	28	27	21	38	14	22
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0	<1	<1	<1	10	<1	<1
Vanadium	1200	mg/kg	128 of 128	0	7	640		0	26	27	27	49	23	40
Zinc	40400	mg/kg	131 of 131	0	26	1300		0	322	79	206	988	169	933
Inorganic														
pH		pH Units	No GAC	-	4.52	10.9		0	7.14	8.79	8.37	7	8.05	8.16
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0						
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0	48.5	17.3	<0.1	<0.1	<0.1	12.1
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0	<1	<1	<1	1	<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0						
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0						
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0						
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0	<1	<1	<1	3.5	1.3	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0	9.87	1.74	3.43	26.2	NDP	5.83
Sulphate (acid soluble)		mg/kg	No GAC	-				0						
Asbestos														
Asbestos Matrix (microscope)		-	No GAC	-				0					Loose fibres	
Asbestos Matrix (visual)		-	No GAC	-				0						
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0						
Asbestos (Presence of)		---	No GAC	-				0						
Asbestos Analysts Comments		---	No GAC	-				0						
Phenol and mineral oils														
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0						
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0						
Xylenols		mg/kg	No GAC	-				0						
TPH														
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0	<1					
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2	1					
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6	4					
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14	85					
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2	15					
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0	<0.01					
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0	<0.01					
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0	<1					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
									Sample Ref	326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
									Easting	384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
									Northing	399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
									Hole Elevation (mOD)	40.06	42.6	42.12	44.52	43.63	42.84
									Sample Depth (mbgl)	0.1	0	0	0	0	0
									Sample Date	07/03/22					
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G					
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0		106					
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		1					
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		5					
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		18					
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		42					
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		11					
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		<0.01					
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		1					
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0			25	52	158	35	786
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0		183					
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		0.04					
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		0.05					
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		0.99					
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		0.02					
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		0.28					
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		0.45					
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		0.93					
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		0.05					
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0			3.63	<0.16	220	9.3	187
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0		5.76					
Pah,Total		mg/kg	No GAC	-	<0.1	100		0							
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		0.05					
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		0.26					
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		0.47					
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		0.26					
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		0.48					
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		0.63					
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		0.22					
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		0.58					
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		<0.01					
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		<0.01					
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		<0.01					
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		<0.01					
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		<0.01					
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0							
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0			<0.01	<0.01	<0.01	<0.01	<0.01
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
									Sample Ref	326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
									Easting	384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
									Northing	399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
									Hole Elevation (mOD)	40.06	42.6	42.12	44.52	43.63	42.84
									Sample Depth (mbgl)	0.1	0	0	0	0	0
									Sample Date	07/03/22					
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G					
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0							
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0							
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0							
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0							
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0							
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0							
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
Sample Ref	326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
Easting	384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
Northing	399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
Hole Elevation (mOD)	40.06	42.6	42.12	44.52	43.63	42.84
Sample Depth (mbgl)	0.1	0	0	0	0	0
Sample Date	07/03/22					
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G					
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
									Sample Ref	326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
									Easting	384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
									Northing	399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
									Hole Elevation (mOD)	40.06	42.6	42.12	44.52	43.63	42.84
									Sample Depth (mbgl)	0.1	0	0	0	0	0
									Sample Date	07/03/22					
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G					
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
					RB Plateau	RB Plateau		
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
Sample Ref	326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023
Easting	384454.6	384689.47	384583.34	384667.48	384808.38	384760.26
Northing	399552.16	399698.72	399659.31	399745.19	399770.76	399703.6
Hole Elevation (mOD)	40.06	42.6	42.12	44.52	43.63	42.84
Sample Depth (mbgl)	0.1	0	0	0	0	0
Sample Date	07/03/22					
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G					
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09	
326R.OP03.ES01	WA1034016	WA1034018	WA1034019	WA1034021	WA1034023	
384454.6	384689.47	384583.34	384667.48	384808.38	384760.26	
399552.16	399698.72	399659.31	399745.19	399770.76	399703.6	
40.06	42.6	42.12	44.52	43.63	42.84	
0.1	0	0	0	0	0	
07/03/22						
326R	326R	326R	326R	326R	326R	
MG-G						
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
<0.01						
N/A	N/A	N/A	N/A	N/A	N/A	
NAD	NAD	NAD	NAD	Chrysotile	NAD	
				<0.001		
91.3	68	64.3	87.5	91.5		
0.192	0.258	0.272	0.2	0.191		
<0.007	<0.014	<0.014	<0.007	0.012		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	<5		0
Titanium		mg/kg	No GAC	-	67	420		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-	76	101		0
Total Aromatics		mg/kg	No GAC	-	<1	6340		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-				0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0
Phenols, Total		mg/kg	No GAC	-	<5	<5		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	OP03	SoilSamp02	SoilSamp04	SoilSamp05	SoilSamp07	SoilSamp09
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Sample Depth (mbgl)	0.1	0	0	0	0	0
Sample Date	07/03/22					
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G					
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

77

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
									Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03
									Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
									Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588
									Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
									Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
									Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology			MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0		19	5	<5			
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0		**45**	6	9			
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0		0.8	1.1	0.6			
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0		3.8	1.4	0.9			
Chromium	907	mg/kg	131 of 131	0	4.8	470		0		24	24	10			
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0							
Copper	7130	mg/kg	131 of 131	0	9.1	820		0		744	39	93			
Lead	310	mg/kg	131 of 131	19	6.4	1400		0		**356**	154	77			
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0		2.09	1.14	<0.17			
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0		34	14	19			
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0		1	<1	<1			
Vanadium	1200	mg/kg	128 of 128	0	7	640		0		40	21	16			
Zinc	40400	mg/kg	131 of 131	0	26	1300		0		228	139	301			
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0		7.12	8.05	6.16			
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		37.6	<0.1	40.6	13.3	22.5	5
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0		<1	<1		<1		
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0		<1	<1		<1		
Total Organic Carbon		%	No GAC	-	<0.1	54		0		12.3	2.49		2.07	13.5	31.4
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0							
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0		<0.2	<0.2	<0.2			
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0				<1			
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2				<1			
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6				<1			
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14				2			
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2				<1			
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0				<0.01			
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0				<0.01			
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0				<1			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
									Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03
									Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
									Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588
									Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
									Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
									Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology			MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0					2		
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0					<1		
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0					<1		
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0					<1		
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0					2		
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0					<1		
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0					<0.01		
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0					<1		
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0		152	269			156	228
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0					4		
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0					<0.01		
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0					<0.04		
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0					<0.08		
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0					<0.01		
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0					<0.03		
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0					<0.03		
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0					<0.07		
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0					<0.03		
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0		2.03	4.19			9.19	0.36
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0					<0.08		
Pah,Total		mg/kg	No GAC	-	<0.1	100		0							
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0					<0.01		
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0					<0.02		
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0					<0.04		
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0					<0.05		
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0					<0.04		
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0					<0.05		
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0					<0.07		
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0					<0.06		
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0					<0.01		
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0					<0.01		
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0					<0.01		
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0					<0.01		
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0					<0.01		
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0							
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0							
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.01	<0.01			<0.01	<0.01
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0							
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0							
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0
VOCs/SVOCs								
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03
Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588
Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology			MG-G	MG-G	MG-G	MG-G
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03
Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588
Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology			MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0						
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0						
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0						
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0						
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0						
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0						
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0						
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0						
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0						
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0						
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0						
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0						
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0						
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0						
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0						
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0						
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0			<0.01			
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0						
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0						
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0				<0.01		
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0			<0.1			
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0						
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0						
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0						
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0						
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0						
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0						
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0						
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0						
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

									Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
									Sample Ref	WA1034024	WA1034025	326R.TP304.ES0	326R.TP304.ES0	326R.TP304.ES0	326R.TP305.ES0
									Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
									Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588
									Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
									Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
									Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology			MG-G	MG-G	MG-G	MG-G
Contaminant Name	**GAC**	**Units**	**Total > LOD**	**Total > GAC**	**Min**	**Max**	**Saturation Value**	**Total > Saturation**		**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**	**RB Plateau**
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0							
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0							
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0				<0.2			
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0				<0.01			
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0				0.5			
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			
Propham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0				<0.02			
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305		
Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03		
Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16		
Northing	399622.25	399650.53	399632.01	399632.01	399632.01	399588		
Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05		
Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1		
Sample Date			22/02/22	22/02/22	22/02/22	24/02/22		
Investigation	326R	326R	326R	326R	326R	326R		
Geology			MG-G	MG-G	MG-G	MG-G		

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0			<0.01			
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0			<0.01			
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0			<0.01			
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0			<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305	
WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03	
384608.59	384669.16	384627.23	384627.23	384627.23	384559.16	
399622.25	399650.53	399632.01	399632.01	399632.01	399588	
41.24	42.01	41.34	41.34	41.34	41.05	
0	0	0.5	1.2	2.45	1	
		22/02/22	22/02/22	22/02/22	24/02/22	
326R	326R	326R	326R	326R	326R	
		MG-G	MG-G	MG-G	MG-G	
RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	
		<0.01				
		<0.01				
		<0.1				
		<0.1				
			<0.01			
N/A	N/A		N/A			
NAD	NAD		NAD			
		<0.02				
		<0.5				
83.3	83.3			79.4	74.4	
		<0.01				
		<0.01				
		<0.01				
		<0.1				
0.21	0.21			0.22	0.235	
		<0.1				
		<0.1				
<0.007	<0.007			<0.007	<0.007	
		<0.01				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	SoilSamp10	SoilSamp11	TP304	TP304	TP304	TP305
									Sample Ref	WA1034024	WA1034025	326R.TP304.ES03	326R.TP304.ES03	326R.TP304.ES03	326R.TP305.ES03
									Easting	384608.59	384669.16	384627.23	384627.23	384627.23	384559.16
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									Hole Elevation (mOD)	41.24	42.01	41.34	41.34	41.34	41.05
									Sample Depth (mbgl)	0	0	0.5	1.2	2.45	1
									Sample Date			22/02/22	22/02/22	22/02/22	24/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology			MG-G	MG-G	MG-G	MG-G
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			
Tin		mg/kg	No GAC	-	<5	<5		0							
Titanium		mg/kg	No GAC	-	67	420		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-	76	101		0							
Total Aromatics		mg/kg	No GAC	-	<1	6340		0					2		
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0							
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0				<0.5			
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Ortho Phosphate as P		mg/kg	No GAC	-				0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0							
Phenols, Total		mg/kg	No GAC	-	<5	<5		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
									Sample Ref	326R.TP305.ES03	326R.TP306.ES03	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
									Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
									Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
									Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
									Sample Depth (mbgl)	2	3	0.5	1	1	1
									Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Metal															
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0			11	9	<5	<5	<5
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0			31	**40**	3	10	4
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0			**3**	**1.9**	<0.5	1.3	0.9
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0			1.5	1.7	<0.5	0.8	<0.5
Chromium	907	mg/kg	131 of 131	0	4.8	470		0			18	17	7	24	11
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0					<1	<1	
Copper	7130	mg/kg	131 of 131	0	9.1	820		0			342	297	11	36	25
Lead	310	mg/kg	131 of 131	19	6.4	1400		0			131	**687**	7	88	93
Manganese		mg/kg	No GAC	-				0							
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0			<0.17	0.45	<0.17	<0.17	<0.17
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0			50	40	7	32	14
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0			<1	<1	<1	<1	<1
Vanadium	1200	mg/kg	128 of 128	0	7	640		0			54	45	8	31	14
Zinc	40400	mg/kg	131 of 131	0	26	1300		0			121	169	36	52	31
Inorganic															
pH		pH Units	No GAC	-	4.52	10.9		0			6.02	6.11	7.32	8.63	8.74
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0							
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		29.1	9.2	14.2	6.6	6.9	<0.1
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0			<1	<1	<1	<1	<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0							
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0			<1	<1	<1	<1	<1
Total Organic Carbon		%	No GAC	-	<0.1	54		0		22.4	24	34.3	0.87	0.46	2.35
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0			<0.1		<0.1	<0.1	<0.1
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0			<0.2	<0.2	<0.2	<0.2	<0.2
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			<1	1	<1	<1	<1
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			<1	2	<1	<1	<1
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			<1	3	<1	<1	<1
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			1	39	<1	<1	<1
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2			<1	12	<1	<1	<1
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			<1	2	<1	<1	<1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
									Sample Ref	326R.TP305.ES03	326R.TP306.ES03	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
									Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
									Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
									Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
									Sample Depth (mbgl)	2	3	0.5	1	1	1
									Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
										RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0							
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0			1	59	<1	<1	<1
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0			<1	2	<1	<1	<1
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0			<1	6	<1	<1	<1
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0			<1	6	<1	<1	<1
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0			1	11	<1	<1	<1
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0			<1	6	<1	<1	<1
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0			<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0			<1	3	<1	<1	<1
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0		16		139			
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0			2	93	<1	<1	<1
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0							
PAH															
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0			<0.01	0.01	<0.01	<0.01	0.11
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0			<0.04	<0.04	<0.04	<0.04	<0.04
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0			<0.08	0.29	<0.08	<0.08	0.88
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0			<0.01	<0.01	<0.01	<0.01	0.1
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0			0.19	0.13	<0.03	<0.03	0.11
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0			<0.03	0.19	<0.03	<0.03	1.12
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0			<0.07	0.28	<0.07	<0.07	0.83
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0			<0.03	0.13	<0.03	<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0		0.18		2.43			
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0			0.91	2.42	<0.08	<0.08	5
Pah,Total		mg/kg	No GAC	-	<0.1	100		0							
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0			<0.01	<0.01	<0.01	<0.01	0.04
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0			<0.02	0.07	<0.02	<0.02	0.28
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0			<0.04	0.17	<0.04	<0.04	0.35
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0			0.16	0.12	<0.05	<0.05	0.11
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0			0.24	0.25	<0.04	<0.04	0.29
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0			0.15	0.34	<0.05	<0.05	0.26
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0			0.1	0.15	<0.07	<0.07	0.12
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0			0.07	0.29	<0.06	<0.06	0.4
BTEX															
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0			<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0			<0.01	<0.01	<0.01	<0.01	<0.01
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0							
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0					<0.01	<0.01	<0.01
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0		<0.01		<0.01	<0.001	<0.001	<0.001
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0				<0.007	<0.007	<0.007	
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0				<0.005	<0.005	<0.005	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0
VOCs/SVOCs								
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
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Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
PCB BZ 189			<0.005	<0.005	<0.005	
PCB BZ 77			<0.005	<0.005	<0.005	
PCB BZ 81			<0.005	<0.005	<0.005	
Total Speciated PCB-WHO12			<0.007	<0.007	<0.007	
VOCs/SVOCs						
1,1,1,2-Tetrachloroethane		<0.001		<0.001	<0.001	<0.001
1,1,1-Trichloroethane		<0.001		<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane		<0.001		<0.001	<0.001	<0.001
1,1,2-Trichloroethane		<0.001		<0.001	<0.001	<0.001
1,1-Dichloroethane		<0.001		<0.001	<0.001	<0.001
1,1-Dichloroethene		<0.001		<0.001	<0.001	<0.001
1,1-Dichloropropene		<0.001		<0.001	<0.001	<0.001
1,2,3 Trichlorobenzene		<0.003		<0.003	<0.003	<0.003
1,2,3-Trichloropropane		<0.001		<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene		<0.003		<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene		<0.001		<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane		<0.002		<0.002	<0.002	<0.002
1,2-Dibromoethane		<0.001		<0.001	<0.001	<0.001
1,2-Dichlorobenzene		<0.001		<0.001	<0.001	<0.001
1,2-Dichloroethane		<0.002		<0.002	<0.002	<0.002
1,2-Dichloropropane		<0.001		<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene		<0.001		<0.001	<0.001	<0.001
1,3-Dichlorobenzene		<0.001		<0.001	<0.001	<0.001
1,3-Dichloropropane		<0.001		<0.001	<0.001	<0.001
1,4-Dichlorobenzene		<0.001		<0.001	<0.001	<0.001
2,2-Dichloropropane		<0.001		<0.001	<0.001	<0.001
2,3,4,6-Tetrachlorophenol						
2,4,5-Trichlorophenol		<0.1		<0.1	<0.1	<0.1
2,4,6-Trichlorophenol		<0.1		<0.1	<0.1	<0.1
2,4-Dichlorophenol		<0.1		<0.1	<0.1	<0.1
2,4-Dimethylphenol		<0.1		<0.1	<0.1	<0.1
2,4-Dinitrotoluene		<0.1		<0.1	<0.1	<0.1
2,6-Dinitrotoluene		<0.1		<0.1	<0.1	<0.1
2-Chloronaphthalene		<0.1		<0.1	<0.1	<0.1
2-Chlorophenol		<0.1		<0.1	<0.1	<0.1
2-Chlorotoluene		<0.001		<0.001	<0.001	<0.001
2-Methyl-4,6-Dinitrophenol						
2-Methylnaphthalene		<0.1		0.277	<0.1	<0.1
2-Methylphenol		<0.1		<0.1	<0.1	<0.1
2-Nitroaniline						
2-Nitrophenol		<0.1		<0.1	<0.1	<0.1
3-Nitroaniline						
4-Bromophenyl Phenyl Ether		<0.1		<0.1	<0.1	<0.1
4-Chloro-3-Methylphenol		<0.1		<0.1	<0.1	<0.1
4-Chlorotoluene		<0.001		<0.001	<0.001	<0.001
4-Isopropyltoluene		<0.001		<0.001	<0.001	<0.001
4-Nitroaniline						
4-Nitrophenol		<0.1		<0.1	<0.1	<0.1
Aniline						
Azobenzene						
Benzyl Alcohol						
Bis(2-chloroethoxy)methane		<0.1		<0.1	<0.1	<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0

	TP305	TP305	TP306	TP308	TP309	TP310
Hole Ref						
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Bis(2-chloroethyl)ether		<0.1		<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether		<0.1		<0.1	<0.1	<0.1
Bis(2-ethylhexyl)phthalate		<0.5		<0.5	<0.5	<0.5
Bromobenzene		<0.001		<0.001	<0.001	<0.001
Bromochloromethane		<0.005		<0.005	<0.005	<0.005
Bromodichloromethane		<0.01		<0.01	<0.01	<0.01
Bromoform		<0.001		<0.001	<0.001	<0.001
Bromomethane		<0.001		<0.001	<0.001	<0.001
Butylbenzyl phthalate		<0.1		<0.1	<0.1	<0.1
Carbazole		<0.1		<0.1	<0.1	<0.1
Carbon Disulphide		<0.001		<0.001	<0.001	<0.001
Carbon Tetrachloride		<0.001		<0.001	<0.001	<0.001
Chlorobenzene		<0.001		<0.001	<0.001	<0.001
Chloroethane		<0.001		<0.001	<0.001	<0.001
Chloroethene		<0.001		<0.001	<0.001	<0.001
Chloroform		<0.001		<0.001	<0.001	<0.001
Chloromethane		<0.01		<0.01	<0.01	<0.01
Di-N-Butyl Phthalate		<0.1		<0.1	<0.1	<0.1
Di-N-Octyl Phthalate		<0.5		<0.5	<0.5	<0.5
Dibenzofuran		<0.1		<0.1	<0.1	<0.1
Dibromochloromethane		<0.003		<0.003	<0.003	<0.003
Dibromomethane		<0.001		<0.001	<0.001	<0.001
Dichloromethane		<0.005		<0.005	<0.005	<0.005
Diethyl phthalate		<0.1		<0.1	<0.1	<0.1
Dimethyl phthalate		<0.1		<0.1	<0.1	<0.1
Diphenylamine						
Hexachlorobenzene		<0.1		<0.1	<0.1	<0.1
Hexachlorobutadiene		<0.001		<0.001	<0.001	<0.001
Hexachlorocyclopentadiene		<0.1		<0.1	<0.1	<0.1
Hexachloroethane		<0.1		<0.1	<0.1	<0.1
Isophorone		<0.1		<0.1	<0.1	<0.1
Isopropylbenzene		<0.001		<0.001	<0.001	<0.001
M-Dinitrobenzene						
MTBE		<0.01	<0.01	<0.01	<0.01	<0.01
Nitrobenzene		<0.1		<0.1	<0.1	<0.1
O-Dinitrobenzene						
P-Dinitrobenzene						
PCP; (Pentachlorophenol)		<0.1		<0.1	<0.1	<0.1
Sec-Butylbenzene		<0.001		<0.001	<0.001	<0.001
Styrene		<0.001		<0.001	<0.001	<0.001
Tert-Butylbenzene		<0.002		<0.002	<0.002	<0.002
Tetrachloroethene		<0.001		<0.001	<0.001	<0.001
Trichloroethene		<0.001		<0.001	<0.001	<0.001
Trichlorofluoromethane		<0.001		<0.001	<0.001	<0.001
cis 1,2-Dichloroethene		<0.001		<0.001	<0.001	<0.001
cis 1,3-Dichloropropene		<0.001		<0.001	<0.001	<0.001
cis1,3-Dichloropropene						
n-Butylbenzene		<0.001		<0.001	<0.001	<0.001
n-Nitroso-n-dipropylamine		<0.1		<0.1	<0.1	<0.1
n-Propylbenzene		<0.001		<0.001	<0.001	<0.001
trans 1,2-Dichloroethene		<0.001		<0.001	<0.001	<0.001
trans 1,3-Dichloropropene		<0.001		<0.001	<0.001	<0.001

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0

Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
VOC Total (excl. BTEX)				<0.01	<0.01	<0.01
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)				0.277	<0.1	<0.1
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)				0.277	<0.1	<0.1
Herbicides						
2,3,6-TBA						
2,4,5-TP; (Fenoprop); (Silvex)						
2,4-D						
2,4-DB						
4-CPA						
Ametryne						
Atraton						
Atrazine						
Benazolin						
Bentazone						
Bromacil						
Bromoxynil						
Carbetamide						
Chlorbufam						
Chlorpropham						
Chlortoluron						
Clopyralid						
Cyfluthrin						
Cyhalothrin						
Cypermethrin						
Deltamethrin						
Dicamba						
Diclofop						
Diuron						
Fenvalerate						
Flamprop						
Flamprop-isopropyl						
Ioxynil						
Isoproturon						
Linuron						
MCPA						
MCPB						
MCPP; (Mecoprop)						
Monuron						
Permethrin						
Picloram						
Pirimicarb						
Prometon						
Prometryn						
Propazine						
Propham						
Simazine						
Simetryn						
Terbuthylazine						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Pesticides														
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0						
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0						
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0						
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Sample Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0
Aluminium		mg/kg	No GAC	-	8270	9680		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0
Barium		mg/kg	No GAC	-	68	198		0
Calcium		mg/kg	No GAC	-	8540	8540		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0
Cobalt		mg/kg	No GAC	-	4	12		0
Coronene		mg/kg	No GAC	-	0.04	0.12		0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	43300	43300		0
Loss on ignition		%	No GAC	-	1.3	24		0
Magnesium		mg/kg	No GAC	-	1000	1000		0
Manganese		mg/kg	No GAC	-	63	595		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	8		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0
Perylene		mg/kg	No GAC	-	<0.1	25.6		0
Potassium		mg/kg	No GAC	-	500	500		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	530		0

Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO
	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
p,p-DDT (4,4)						
trans-Chlordane (Gamma)						
2,3,5,6-Tetrachlorophenol						
2,4,5-T						
2,4-DP; (Dichlorprop)						
3+4-Methylphenol		<0.1		<0.1	<0.1	<0.1
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium			8270			
Ammoniacal Nitrogen as N						
Aro >C5-C7		<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos ACM - Suitable for Water Absorption Test?		N/A	N/A	N/A	N/A	N/A
Asbestos in soil		NAD	NAD	NAD	NAD	NAD
Asbestos in soil % composition (hand picking and weighing)						
Barium			190			
Calcium			8540			
Chloride (water sol 2:1)			<10			
Cobalt			12			
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane		<0.001		<0.001	<0.001	<0.001
Dry Matter (Dry Solids) at 40C	72.8		75.6			
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC				442	115	181
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron			43300			
Loss on ignition			24			
Magnesium			1000			
Manganese			595			
Mass Sample (1 stage WAC)	0.24		0.231			
Methabenzthiazuron						
Molybdenum			8			
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.007		<0.007			
Perylene		<0.1		<0.1	<0.1	<0.1
Potassium			500			
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified				None detected	None detected	None detected
Silver			<10			
Sulphide			44			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP305	TP305	TP306	TP308	TP309	TP310
Sample Ref	326R.TP305.ES03	326R.TP306.ES06	326R.TP306.ES03	326R.TP308.ES03	326R.TP309.ES04	326R.TP310.ES03
Easting	384559.16	384559.16	384502.15	384576.42	384723.42	384769.94
Northing	399588	399588	399558.56	399641.42	399769.78	399712.21
Hole Elevation (mOD)	41.05	41.05	39.29	41.08	42.88	42.77
Sample Depth (mbgl)	2	3	0.5	1	1	1
Sample Date	24/02/22		25/02/22	22/02/22	23/02/22	22/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	GTD - G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau	RB Plateau
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0			110			
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	<5		0			<5			
Titanium		mg/kg	No GAC	-	67	420		0			420			
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-	76	101		0						
Total Aromatics		mg/kg	No GAC	-	<1	6340		0		1	33	<1	<1	<1
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0						
VOC TICs		-	No GAC	-				0				None detected	None detected	None detected
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0						
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1	<0.1	<0.1
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1	<0.1	<0.1
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-				0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1	<0.1	<0.1
Phenols, Total		mg/kg	No GAC	-	<5	<5		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0						
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP310	TT302	TT302
									Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
									Easting	384769.94	384842.18	384842.18
									Northing	399712.21	399756.03	399756.03
									Hole Elevation (mOD)	42.77	42.1	42.1
									Sample Depth (mbgl)	0.3	0.3	0.8
									Sample Date	23/02/22	17/02/22	17/02/22
									Investigation	326R	326R	326R
									Geology	MG-CO	MG-G	MG-G
										RB Plateau	RB05b School	RB05b School
Metal												
Antimony	617.5682	mg/kg	88 of 128	0	<1	55		0			<5	
Arsenic	39.9	mg/kg	130 of 131	17	<1	89		0			11	
Beryllium	1.7	mg/kg	124 of 128	25	<0.2	3.9		0			0.6	
Cadmium	85	mg/kg	122 of 131	0	<0.1	7.2		0			0.5	
Chromium	907	mg/kg	131 of 131	0	4.8	470		0			7	
Chromium (hexavalent)	6	mg/kg	0 of 77	0	<1	<1		0			<1	
Copper	7130	mg/kg	131 of 131	0	9.1	820		0			65	
Lead	310	mg/kg	131 of 131	19	6.4	1400		0			162	
Manganese		mg/kg	No GAC	-				0				
Mercury	56	mg/kg	83 of 131	0	<0.05	18		0			<0.17	
Nickel	181.4	mg/kg	131 of 131	0	6.6	69		0			12	
Selenium	430	mg/kg	22 of 131	0	<0.5	10		0			1	
Vanadium	1200	mg/kg	128 of 128	0	7	640		0			13	
Zinc	40400	mg/kg	131 of 131	0	26	1300		0			126	
Inorganic												
pH		pH Units	No GAC	-	4.52	10.9		0			8.21	
% Moisture at <40C		% w/w	No GAC	-	3.3	10.1		0				
% Stones >10mm		% w/w	No GAC	-	<0.1	48.5		0		35.4	<0.1	13.5
Cyanide	24	mg/kg	56 of 131	2	<0.1	68		0			10	
Complex Cyanide		mg/kg	No GAC	-	<0.2	12		0			9	
Cyanide (free)	24	mg/kg	1 of 5	0	<0.1	<1		0				
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0			<5	
Boron	10775	mg/kg	97 of 131	0	<0.2	3.5		0			<1	
Total Organic Carbon		%	No GAC	-	<0.1	54		0			NDP	36.2
Sulphate (acid soluble)		mg/kg	No GAC	-				0				
Asbestos												
Asbestos Matrix (microscope)		-	No GAC	-				0				
Asbestos Matrix (visual)		-	No GAC	-				0			Cement	
Asbestos Quantification (Total %)		%	No GAC	-	0.007	0.012		0				
Asbestos (Presence of)		---	No GAC	-				0				
Asbestos Analysts Comments		---	No GAC	-				0				
Phenol and mineral oils												
Phenol	1200	mg/kg	0 of 20	0	<0.1	<0.5		0			<0.1	
Phenol (Monohydric)	1200	mg/kg	26 of 131	0	<0.2	2.7		0			<0.2	
Cresols		mg/kg	No GAC	-	<0.5	<0.5		0				
Xylenols		mg/kg	No GAC	-				0				
TPH												
Ali >C10-C12	767	mg/kg	19 of 89	0	<1	130	283.0	0			65	
Ali >C12-C16	4370	mg/kg	25 of 89	0	<1	262	142.0	2			262	
Ali >C16-C21	48900	mg/kg	25 of 89	0	<1	315	50.90	6			315	
Ali >C21-C35	48900	mg/kg	31 of 89	0	<1	350	50.90	14			222	
Ali >C35-C44	48901	mg/kg	18 of 56	0	<1	213	50.90	2			213	
Ali >C5-C6	161	mg/kg	0 of 89	0	<0.01	<0.05		0			<0.01	
Ali >C6-C8	529	mg/kg	3 of 89	0	<0.01	1.2		0			0.03	
Ali >C8-C10	155	mg/kg	17 of 89	0	<0.01	47		0			34	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
Aliphatics >C5-35		mg/kg	No GAC	-	<10	650		0			
Total Aliphatics		mg/kg	No GAC	-	<1	1110		0		1110	
Aro >C10-C12	1240	mg/kg	26 of 89	0	<0.9	105		0		105	
Aro >C12-C16	2480	mg/kg	40 of 89	0	<0.5	675		0		675	
Aro >C16-C21	1817	mg/kg	41 of 89	0	<0.6	1540		0		1540	
Aro >C21-C35	1930	mg/kg	44 of 89	1	<1	3710		0		**3710**	
Aro >C35-C44	1930	mg/kg	18 of 56	0	<1	192		0		192	
Aro >C7-C8	3928	mg/kg	1 of 89	0	<0.01	0.38		0		0.38	
Aro >C8-C10	269	mg/kg	16 of 89	0	<0.01	109		0		109	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	<10	1740		0			1740
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-	142	417		0			
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	<1	7450		0		7450	
TPH >C10-40		mg/kg	No GAC	-	<10	1700		0			
PAH											
Acenaphthene	6040	mg/kg	51 of 96	0	<0.01	7.29	336.0	0		7.29	
Dibenz-a-h-anthracene	0.32	mg/kg	31 of 96	7	<0.03	5.51		0		**5.51**	
Fluoranthene	1580	mg/kg	75 of 96	0	<0.03	59		0		59	
Fluorene	4460	mg/kg	47 of 96	0	<0.01	13.4	183.0	0		13.4	
Indeno(1,2,3-cd)pyrene	46	mg/kg	61 of 96	0	<0.03	24.1		0		24.1	
Phenanthrene	1520	mg/kg	74 of 96	0	<0.03	74.4		0		74.4	
Pyrene	3790	mg/kg	76 of 96	0	<0.03	129		0		129	
Naphthalene	13.2	mg/kg	54 of 97	0	<0.01	10.2		0		9.57	
PAH (total 17)		mg/kg	No GAC	-	0.04	220		0			75
Total PAH-16MS		mg/kg	No GAC	-	<0.08	570		0		570	
Pah,Total		mg/kg	No GAC	-	<0.1	100		0			
Acenaphthylene	5970	mg/kg	33 of 96	0	<0.01	10.9	506.0	0		10.9	
Anthracene	36600	mg/kg	63 of 96	0	<0.02	19.1		0		19.1	
Benzo(a)anthracene	15	mg/kg	69 of 96	1	<0.03	39.6		0		**39.6**	
Benzo (g,h,i) perylene	359	mg/kg	61 of 96	0	<0.03	29.9		0		29.9	
Benzo(a)pyrene	3.23	mg/kg	63 of 96	7	<0.03	39.6		0		**39.6**	
Benzo(b)fluoranthene	4.06	mg/kg	70 of 96	5	<0.03	35.8		0		**35.8**	
Benzo(k)fluoranthene	107	mg/kg	56 of 96	0	<0.03	12.7		0		12.7	
Chrysene	31.9	mg/kg	70 of 96	1	<0.03	60		0		**60**	
BTEX											
BTEX - Benzene	1.421879	mg/kg	1 of 108	0	<0.01	0.41		0		0.41	
BTEX - Toluene	3927.625	mg/kg	1 of 108	0	<0.01	0.38		0		0.38	
BTEX - Ethyl Benzene	439.718	mg/kg	3 of 108	0	<0.01	0.34		0		0.34	
BTEX - m & p Xylene	428	mg/kg	3 of 35	0	<0.01	0.55		0		0.55	
BTEX - o Xylene	475.7208	mg/kg	3 of 35	0	<0.01	0.46		0		0.46	
Xylene	428	mg/kg	3 of 81	0	<0.01	1.9		0			
BTEX and MTBE Total		mg/kg	No GAC	-	<0.01	<0.01		0			
BTEX (total)		mg/kg	No GAC	-	<0.001	5.9		0			5.9
PCBs											
PCB BZ 105	0.000074	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 114	0.000004	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 118	0.000171	mg/kg	0 of 8	0	<0.007	<0.007		0		<0.007	
PCB BZ 123	0.000006	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 126	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 156	0.000032	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 157	0.000008	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 167	0.000013	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	
PCB BZ 169	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0		<0.005	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP310	TT302	TT302
									Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
									Easting	384769.94	384842.18	384842.18
									Northing	399712.21	399756.03	399756.03
									Hole Elevation (mOD)	42.77	42.1	42.1
									Sample Depth (mbgl)	0.3	0.3	0.8
									Sample Date	23/02/22	17/02/22	17/02/22
									Investigation	326R	326R	326R
									Geology	MG-CO	MG-G	MG-G
										RB Plateau	RB05b School	RB05b School
PCB BZ 189	0.000005	mg/kg	0 of 8	0	<0.005	<0.005		0			<0.005	
PCB BZ 77	0.000016	mg/kg	0 of 8	0	<0.005	<0.005		0			<0.005	
PCB BZ 81	0.000001	mg/kg	0 of 8	0	<0.005	<0.005		0			<0.005	
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	<0.007		0			<0.007	
VOCs/SVOCs												
1,1,1,2-Tetrachloroethane	8.2	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,1,1-Trichloroethane	40.4	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,1,2,2-Tetrachloroethane	17.2	mg/kg	0 of 12	0	<0.001	<0.001		0			<0.001	
1,1,2-Trichloroethane	5.53	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,1-Dichloroethane	10.9	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,1-Dichloroethene	1.17	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
1,2,3 Trichlorobenzene	8.81	mg/kg	1 of 22	0	<0.003	<0.1		0			<0.003	
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
1,2,4-Trichlorobenzene	15.3	mg/kg	0 of 22	0	<0.003	<0.1		0			<0.003	
1,2,4-Trimethylbenzene	3.31	mg/kg	3 of 22	0	<0.001	0.85		0			0.008	
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	0.16		0			<0.002	
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
1,2-Dichlorobenzene	133	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,2-Dichloroethane	0.0227	mg/kg	0 of 22	0	<0.002	<0.1		0			<0.002	
1,2-Dichloropropane	0.121	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.42		0			0.02	
1,3-Dichlorobenzene	2.45	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
1,4-Dichlorobenzene	350	mg/kg	0 of 22	0	<0.001	<0.1		0			<0.001	
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
2,3,4,6-Tetrachlorophenol	229	mg/kg	0 of 9	0	<0.1	<0.1		0				
2,4,5-Trichlorophenol	210	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2,4,6-Trichlorophenol	231	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2,4-Dichlorophenol	186	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2,4-Dimethylphenol	1040	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2,4-Dinitrotoluene	254	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2,6-Dinitrotoluene	125	mg/kg	1 of 18	0	<0.1	0.2		0			<0.1	
2-Chloronaphthalene	31.6	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2-Chlorophenol	207	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	15		0			9.54	
2-Methylphenol	9930	mg/kg	0 of 18	0	<0.1	<0.1		0			<0.1	
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1	
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1	
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1	
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001	
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			0.006	
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1	
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0				
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0				
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
Bis(2-ethylhexyl)phthalate	4090	mg/kg	0 of 18	0	<0.1	<0.5		0		<0.5	
Bromobenzene	7	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		<0.005	
Bromodichloromethane	0.096	mg/kg	0 of 22	0	<0.01	<0.1		0		<0.01	
Bromoform	32.4	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001	
Butylbenzyl phthalate	63800	mg/kg	1 of 18	0	<0.1	<0.1		0		<0.1	
Carbazole		mg/kg	No GAC	-	<0.1	1.8		0		<0.1	
Carbon Disulphide	0.622	mg/kg	0 of 12	0	<0.001	<0.001		0		<0.001	
Carbon Tetrachloride	0.128	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Chlorobenzene	2.41	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Chloroethane	26	mg/kg	0 of 12	0	<0.001	<0.001		0		<0.001	
Chloroethene	0.00153	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Chloroform	4.22	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Chloromethane	0.0188	mg/kg	0 of 12	0	<0.01	<0.01		0		<0.01	
Di-N-Butyl Phthalate	645	mg/kg	0 of 18	0	<0.1	<0.1		0		<0.1	
Di-N-Octyl Phthalate	4920	mg/kg	0 of 18	0	<0.1	<0.5		0		<0.5	
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.3		0		<0.1	
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		<0.003	
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001	
Dichloromethane	6.37	mg/kg	0 of 12	0	<0.005	<0.005		0		<0.005	
Diethyl phthalate	8970	mg/kg	0 of 18	0	<0.1	<0.1	65.0	0		<0.1	
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0			
Hexachlorobenzene	6.38	mg/kg	0 of 21	0	<0.01	<0.1	1.190	0	<0.01	<0.1	
Hexachlorobutadiene	1.79	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
Hexachloroethane	1.8	mg/kg	0 of 9	0	<0.1	<0.1		0		<0.1	
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
Isopropylbenzene	95.4	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.001	
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			
MTBE	319	mg/kg	0 of 35	0	<0.01	<0.1		0		<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			
PCP; (Pentachlorophenol)	30.6	mg/kg	0 of 21	0	<0.1	<0.1		0	<0.1	<0.1	
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	0.85		0		<0.001	
Styrene	236	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		<0.002	
Tetrachloroethene	0.92	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Trichloroethene	0.0797	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001	
cis 1,2-Dichloroethene	0.559	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001	
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0			
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001	
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1	
n-Propylbenzene	323	mg/kg	1 of 22	0	<0.001	<0.1		0		<0.001	
trans 1,2-Dichloroethene	1.02	mg/kg	0 of 22	0	<0.001	<0.1		0		<0.001	
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
VOC Total (excl. BTEX)		mg/kg	No GAC	-	<0.01	<0.01		0			
SVOC Total (excl. PAH/Phenols/Cresols and Chlorophenols)		mg/kg	No GAC	-	<0.1	0.277		0			
SVOC Total (excl. PAH/Phenols/Cresols/Chlorophenols/Ethers/Nitrobenzene)		mg/kg	No GAC	-	<0.1	0.277		0			
Herbicides											
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0	<0.2		
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Atrazine	620	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Bromacil		mg/kg	No GAC	-	<0.1	0.5		0	<0.1		
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02		
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02		
Propham		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Simetryn		mg/kg	No GAC	-	<0.02	<0.1		0	<0.02		
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Pesticides											
Aldrin	1.9	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Dichlorvos	6.6	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
Dieldrin	3.2	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Endosulphan I (Alpha)	404	mg/kg	0 of 3	0	<0.01	<0.01	0.0164	0	<0.01		
Endosulphan II (Beta)	440	mg/kg	0 of 3	0	<0.01	<0.01	0.000382	0	<0.01		
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
alpha-Hexachlorocyclohexane (HCH)	11	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
beta-Hexachlorocyclohexane (HCH)	3.8	mg/kg	0 of 3	0	<0.01	<0.01		0	<0.01		
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0			
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.3		0		<0.1	
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			
Aliphatics >C10-44		mg/kg	No GAC	-	<10	94		0			
Aluminium		mg/kg	No GAC	-	8270	9680		0			
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	2.2	2.2		0			
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.41		0		0.41	
Asbestos ACM - Suitable for Water Absorption Test?		-	No GAC	-				0		Yes	
Asbestos in soil		-	No GAC	-				0		Chrysotile	
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	1.539		0		1.539	
Barium		mg/kg	No GAC	-	68	198		0		198	
Calcium		mg/kg	No GAC	-	8540	8540		0			
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	13		0		<10	
Cobalt		mg/kg	No GAC	-	4	12		0		4	
Coronene		mg/kg	No GAC	-	0.04	0.12		0			
Cresols		mg/kg	No GAC	-				0			
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02		
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0	<0.5		
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001	
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	59.1	91.5		0			59.1
EPH CWG GCxGC ID (for FID		-	No GAC	-				0			
Electrical conductivity @ 20degC		uS/cm	No GAC	-	115	442		0			
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0			
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0			
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Iron		mg/kg	No GAC	-	43300	43300		0			
Loss on ignition		%	No GAC	-	1.3	24		0		NDP	
Magnesium		mg/kg	No GAC	-	1000	1000		0			
Manganese		mg/kg	No GAC	-	63	595		0		63	
Mass Sample (1 stage WAC)		kg	No GAC	-	0.191	0.296		0			0.296
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Molybdenum		mg/kg	No GAC	-	<1	8		0		1	
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-	<0.5	<0.5		0			
PCB Total		mg/kg	No GAC	-	<0.007	0.03		0			<0.007
Perylene		mg/kg	No GAC	-	<0.1	25.6		0		25.6	
Potassium		mg/kg	No GAC	-	500	500		0			
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Resorcinol		mg/kg	No GAC	-	<0.5	<0.5		0			
SVOC TICs (Tentatively Identified		-	No GAC	-				0			
Silver		mg/kg	No GAC	-	<10	<10		0			
Sulphide		mg/kg	No GAC	-	<5	530		0		<5	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP310	TT302	TT302
Sample Ref	326R.TP310.ES03	326R.TT302.ES03	326R.TT302.ES02
Easting	384769.94	384842.18	384842.18
Northing	399712.21	399756.03	399756.03
Hole Elevation (mOD)	42.77	42.1	42.1
Sample Depth (mbgl)	0.3	0.3	0.8
Sample Date	23/02/22	17/02/22	17/02/22
Investigation	326R	326R	326R
Geology	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Plateau	RB05b School	RB05b School
Sulphur (elemental)		mg/kg	No GAC	-	<5	890		0		890	
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02		
Tin		mg/kg	No GAC	-	<5	<5		0			
Titanium		mg/kg	No GAC	-	67	420		0			
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0			
Total Aromatics		mg/kg	No GAC	-	76	101		0			
Total Aromatics		mg/kg	No GAC	-	<1	6340		0		6340	
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Trimethylphenol		mg/kg	No GAC	-	<0.5	<0.5		0			
VOC TICs		-	No GAC	-				0			
Xylenols & Ethylphenols		mg/kg	No GAC	-	<0.5	<0.5		0			
Aromatics >C10-44		mg/kg	No GAC	-	<10	290		0			
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-	<0.1	<0.1		0			
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0	<0.5		
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Ethers Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0			
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Ortho Phosphate as P		mg/kg	No GAC	-				0			
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1		
Phenols Total (from SVOC)		mg/kg	No GAC	-	<0.1	<0.1		0			
Phenols, Total		mg/kg	No GAC	-	<5	<5		0			
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	340		0			
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	1200		0			
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	740		0			
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
									Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
									Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
									Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
									Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
									Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		1.4	21	7.8	<1	2.1	<1
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		11	40	28	7.1	6.2	4.5
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		0.5	1.3	1.6	0.5	0.4	0.4
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		<0.1	1	0.5	0.2	0.3	0.1
Chromium	33000	mg/kg	58 of 58	0	6	57		0		18	22	27	13	22	11
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		26	210	180	22	46	8.9
Lead	1300	mg/kg	58 of 58	4	4	2250		0		45	370	210	**1900**	37	66
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		0.11	0.38	0.37	0.1	<0.05	<0.05
Nickel	804	mg/kg	58 of 58	0	4	50		0		12	38	34	11	25	12
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	1	<0.5	<0.5	<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		17	52	46	20	38	19
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		50	340	160	74	91	36
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		7.7	6.9	7.9	11.7	10.5	9.3
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		1.1	0.5	0.2	<0.1	0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		2.3	0.8	1.3	1.2	1.2	0.7
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		2.6	24	21	1.7	3.3	0.5
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD	NAD	Amosite	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na	na	bundle of Amosite fibres	na
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0							
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2	<1.2	<1.2	<1.2	4.1	<1.2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5	<1.5	<1.5	<1.5	14	<1.5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4	<3.4	<3.4	<3.4	120	<3.4
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0							
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0		<10	<10	<10	<10	140	<10
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
									Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
									Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
									Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
									Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
									Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0		<0.5	1.4	<0.5	<0.5	2.9	<0.5
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0		<0.6	3.9	6.1	<0.6	27	<0.6
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0		<1.4	14	13	<1.4	350	<1.4
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0							
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0							
TPH >C10-40		mg/kg	No GAC	-	<10	240		0			48				
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		<0.03	<0.03	0.04	0.48	0.48	<0.03
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		<0.03	0.03	<0.03	0.04	0.54	<0.03
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		<0.03	0.54	0.4	1.5	6.7	<0.03
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		<0.03	<0.03	<0.03	0.28	0.37	<0.03
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		<0.03	0.13	0.05	0.15	2.2	<0.03
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		<0.03	0.21	0.36	1.6	3.1	<0.03
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		<0.03	0.54	0.38	1.2	6.1	<0.03
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		<0.03	0.04	0.09	0.43	0.17	<0.03
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0							
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		<0.1	3.2	2.1	8.1	39	<0.1
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		<0.03	<0.03	<0.03	<0.03	0.24	<0.03
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		<0.03	0.06	0.08	0.37	1.1	<0.03
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		<0.03	0.28	0.16	0.42	2.8	<0.03
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		<0.03	0.16	0.05	0.18	2.7	<0.03
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		<0.03	0.25	0.11	0.36	3.9	<0.03
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		<0.03	0.43	0.16	0.5	4.5	<0.03
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		<0.03	0.15	0.05	0.16	1.5	<0.03
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		<0.03	0.35	0.15	0.47	3	<0.03
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0							
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0							
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0			<0.04				
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
									Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
									Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
									Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
									Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
									Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0							
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0							
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0							
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0							
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0							
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0							
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0							
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0							
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
									Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
									Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
									Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
									Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
									Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0							
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0							
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0							
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0							
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0							
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0							
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0							
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0							
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0							
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0							
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0							
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0							
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0							
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0							
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0							
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0							
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0							
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0							
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0							
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0							
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0							
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0							
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0							
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0							
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0							
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0							
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0							
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0							
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0							
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Aro >C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
						11
						<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH106	BH106	BH106	BH110	BH110	BH112
Easting	384459.989	384459.989	384459.989	384353.882	384353.882	384401.713
Northing	399509.165	399509.165	399509.165	399440.903	399440.903	399486.259
Hole Elevation (mOD)	40.671	40.671	40.671	31.263	31.263	32.249
Sample Depth (mbgl)	7.6	0.3	3.3	3	0.3	3.3
Sample Date	08/01/19	07/01/19	08/01/19	10/01/19	10/01/19	10/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	GTD - CO	MG-G	MG-G	MG-CO	MG-G	CHES
	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Chloroxuron						
Cresol & Chlorinated Phenol Total						
Demeton-O						
Diflubenzuron						
Dimefuron						
Ethers Total (from SVOC)						
Ethiofencarb						
Metoxuron						
Ortho Phosphate as P						
Pencycuron						
Permethrin I (cis)						
Phenmedipham						
Total Aliphatics and Aromatics C10-C44						
Total Aliphatics and Aromatics C5-C35	<10	19	19	<10	520	<10
Total Aromatics C5-C35	<10	19	19	<10	380	<10
p,p-DDD (4,4)						
p,p-Methoxychlor						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH112	TP105	TP105	TP106	TP106	TP119
									Easting	384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
									Northing	399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
									Hole Elevation (mOD)	32.249	41.107	41.107	42.654	42.654	31.601
									Sample Depth (mbgl)	0.3	0.3	1.3	0.4	2.8	3
									Sample Date	10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	CHES
										RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		5.1	2.2	1	2.3	<1	1.3
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		8.5	19	12	21	5	12
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		0.4	1.3	0.6	2.1	0.6	0.5
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.3	0.5	0.2	0.2	<0.1	0.1
Chromium	33000	mg/kg	58 of 58	0	6	57		0		15	22	23	38	11	15
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		40	94	39	130	17	19
Lead	1300	mg/kg	58 of 58	4	4	2250		0		300	240	110	40	56	18
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		0.16	0.9	0.32	<0.05	0.11	<0.05
Nickel	804	mg/kg	58 of 58	0	4	50		0		12	27	20	50	13	16
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		22	33	21	65	15	36
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		95	170	88	53	38	67
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		8.5	8.4	8.3	8.6	8.3	7.4
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		<0.1	8.1	5.1	0.5	0.2	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		1.1	0.5	0.2	<0.2	<0.2	1.1
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		1.8	5.3	4.7	35	1.5	0.7
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0		Amosite	Chrysotile	NAD	NAD		NAD
Asbestos Analysts Comments		---	No GAC	-				0		bundles of Amosite fibres	Chrysotile in microscopic board debris	na	na		na
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0							
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	0.7	0.4	0.6	0.4	<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5	<1.5	<1.5	1.5		<1.5
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2	<1.2	<1.2	7.1		<1.2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5	<1.5	<1.5	110		<1.5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4	<3.4	<3.4	110		<3.4
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0							
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01	<0.1	<0.01	<0.01		<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01	<0.1	<0.01	<0.01		<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01	4.3	<0.01	<0.01		<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0		<10	<76.3	<10	220		<10
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH112	TP105	TP105	TP106	TP106	TP119
									Easting	384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
									Northing	399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
									Hole Elevation (mOD)	32.249	41.107	41.107	42.654	42.654	31.601
									Sample Depth (mbgl)	0.3	0.3	1.3	0.4	2.8	3
									Sample Date	10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	CHES
										RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0		<0.9	27	11	11		<0.9
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0		<0.5	41	19	19		<0.5
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0		<0.6	40	24	42		<0.6
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0		<1.4	160	98	84		<1.4
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0							
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0		<0.01	<0.1	<0.01	<0.01		<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0		<0.01	<0.1	<0.01	<0.01		<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0							
TPH >C10-40		mg/kg	No GAC	-	<10	240		0						190	
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		0.04		<0.03	0.04		<0.03
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		0.05		0.07	0.15		<0.03
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		0.89		0.2	0.96		<0.03
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		0.03		0.1	0.04		<0.03
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.25		0.52	0.55		<0.03
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		0.41		0.14	0.56		<0.03
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		0.89		0.51	2.4		<0.03
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		<0.03	<0.1	0.04	0.07		<0.03
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0							
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		4.8		6.4	10	47	<0.1
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		<0.03		0.7	0.14		<0.03
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		0.1		0.51	0.18		<0.03
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.35		0.2	0.8		<0.03
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		0.3		2.3	1		<0.03
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.44		0.24	0.99		<0.03
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.54		0.37	1.1		<0.03
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.17		0.37	0.3		<0.03
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.41		0.22	1.1		<0.03
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0			<0.1				
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0			<0.1				
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01		<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0						<0.04	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH112	TP105	TP105	TP106	TP106	TP119
									Easting	384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
									Northing	399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
									Hole Elevation (mOD)	32.249	41.107	41.107	42.654	42.654	31.601
									Sample Depth (mbgl)	0.3	0.3	1.3	0.4	2.8	3
									Sample Date	10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	CHES
										RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0			<0.1				
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0			<0.1				
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0			<0.1				
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0			<0.1				
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0			<0.1				
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0			<0.1				
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0			<0.1				
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0			<0.1				
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0			<0.1				
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0			<0.1				
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0							
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1				
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0							
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref: BH112	TP105	TP105	TP106	TP106	TP119
Easting									384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
Northing									399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
Hole Elevation (mOD)									32.249	41.107	41.107	42.654	42.654	31.601
Sample Depth (mbgl)									0.3	0.3	1.3	0.4	2.8	3
Sample Date									10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
Investigation									VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology									MG-G	MG-G	MG-G	MG-G	MG-G	CHES
									RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		<0.1				
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0		<0.1				
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1				
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0						
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0						
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0						
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1				
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1				
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0						
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1				
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1				
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0						
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0						
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0						
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		<0.1				
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1				
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0						
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0						
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0						
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0						
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1			
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0			<0.1			
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0			<0.1			
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0						
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1			
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0			<0.1			
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0			<0.1			
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0			<0.1			
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1			
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1			
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0			<0.1			
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1			
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0			<0.1			
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.1			
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.1			
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH112	TP105	TP105	TP106
Easting					384401.713	384843.779	384843.779	384830.717
Northing					399486.259	399726.261	399726.261	399695.601
Hole Elevation (mOD)					32.249	41.107	41.107	42.654
Sample Depth (mbgl)					0.3	0.3	1.3	0.4
Sample Date					10/01/19	03/01/19	03/01/19	03/01/19
Investigation					VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology					MG-G	MG-G	MG-G	MG-G
					RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH112	TP105	TP105	TP106	TP106	TP119
									Easting	384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
									Northing	399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
									Hole Elevation (mOD)	32.249	41.107	41.107	42.654	42.654	31.601
									Sample Depth (mbgl)	0.3	0.3	1.3	0.4	2.8	3
									Sample Date	10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	CHES
										RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0							
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0							
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0							
Aluminium		mg/kg	No GAC	-	7410	15900		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0							
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0		<0.01	<0.1	<0.01	<0.01		<0.01
Asbestos ACM - Suitable for Water		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH112	TP105	TP105	TP106	TP106	TP119
									Easting	384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
									Northing	399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
									Hole Elevation (mOD)	32.249	41.107	41.107	42.654	42.654	31.601
									Sample Depth (mbgl)	0.3	0.3	1.3	0.4	2.8	3
									Sample Date	10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	CHES
										RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0							
Barium		mg/kg	No GAC	-	34	385		0							
Calcium		mg/kg	No GAC	-	11600	59700		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0							
Cobalt		mg/kg	No GAC	-	5	18		0							
Coronene		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	27000	62500		0							
Loss on ignition		%	No GAC	-	0.97	53		0							1.7
Magnesium		mg/kg	No GAC	-	1710	2910		0							
Manganese		mg/kg	No GAC	-	247	750		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	7		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0							
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0							<0.01
Perylene		mg/kg	No GAC	-	<0.1	83		0							
Potassium		mg/kg	No GAC	-	690	1840		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0							
Resorcinol		mg/kg	No GAC	-				0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	610		0							
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	222		0							
Titanium		mg/kg	No GAC	-	100	470		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-				0							
Total Aromatics		mg/kg	No GAC	-	5	47100		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-				0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-				0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref							BH112	TP105	TP105	TP106	TP106	TP119
Easting							384401.713	384843.779	384843.779	384830.717	384830.717	384483.283
Northing							399486.259	399726.261	399726.261	399695.601	399695.601	399475.961
Hole Elevation (mOD)							32.249	41.107	41.107	42.654	42.654	31.601
Sample Depth (mbgl)							0.3	0.3	1.3	0.4	2.8	3
Sample Date							10/01/19	03/01/19	03/01/19	03/01/19	03/01/19	09/01/19
Investigation							VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology							MG-G	MG-G	MG-G	MG-G	MG-G	CHES
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-				0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0						
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0						
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0	<10	340	150	380		<10
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0	<10	260	150	160		<10
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		1.3	3.7	2.7	6.6	<1	59
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		4.1	19	16	18	4.5	23
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		<0.2	1.9	1.2	1	<0.2	1.3
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.6	0.6	0.9	0.4	<0.1	0.4
Chromium	33000	mg/kg	58 of 58	0	6	57		0		12	22	19	15	6.8	15
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1	<1	<1	<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		59	120	110	350	10	280
Lead	1300	mg/kg	58 of 58	4	4	2250		0		47	96	**2100**	440	28	730
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		<0.05	0.13	0.14	0.39	<0.05	0.18
Nickel	804	mg/kg	58 of 58	0	4	50		0		7.5	28	17	28	6.5	24
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		10	35	23	28	8.7	29
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		100	140	140	280	35	260
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		11.6	8.3	10.1	8.1	8	8.1
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		<0.1	0.3	0.4	0.2	<0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0			0.3				
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0			<0.1				
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0			0.8				
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		1.6	1.5	1	1.2	0.8	1.1
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		0.9	16	4.5	4.3	0.7	3.7
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	Chrysotile	NAD	NAD	NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	Chrysotile in microscopic cement	na	na	na	na
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		3.7	<1.2	<1.2	<1.2	<1.2	<1.2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		25	<1.5	<1.5	<1.5	<1.5	<1.5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		91	<3.4	<3.4	<3.4	<3.4	<3.4
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0							
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0		120	<10	<10	<10	<10	<10
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								TP119	TP120	TP120	TP121	TP121	TP122
Easting								384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
Northing								399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
Hole Elevation (mOD)								31.601	31.069	31.069	30.274	30.274	30.448
Sample Depth (mbgl)								0.2	1	0.3	0.3	2.3	0.3
Sample Date								09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
Investigation								VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology								MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0						
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0						
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0						
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0						
TPH >C10-40		mg/kg	No GAC	-	<10	240		0						
PAH														
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0	<0.03	<0.1	<0.03	<0.03	<0.03	<0.03
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0	<0.03	<0.1	<0.03	<0.03	<0.03	<0.03
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0	0.24	0.3	0.08	<0.03	<0.03	<0.03
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0	<0.03	<0.1	<0.03	<0.03	<0.03	<0.03
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0	0.06	0.1	<0.03	<0.03	<0.03	<0.03
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0	0.07	0.1	0.05	<0.03	<0.03	<0.03
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0	0.2	0.3	0.06	<0.03	<0.03	<0.03
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1	<0.03	<0.01	<0.03	<0.03	<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0						
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0						
Pah,Total		mg/kg	No GAC	-	<0.1	620		0	1		0.2	<0.1	<0.1	<0.1
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0	<0.03	<0.1	<0.03	<0.03	<0.03	<0.03
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0	<0.03	<0.1	<0.03	<0.03	<0.03	<0.03
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0	0.06	0.2	<0.03	<0.03	<0.03	<0.03
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0	0.09	0.1	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0	0.06	0.2	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0	0.1	0.2	<0.03	<0.03	<0.03	<0.03
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0	0.05	<0.1	<0.03	<0.03	<0.03	<0.03
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0	0.11	0.2	0.03	<0.03	<0.03	<0.03
BTEX														
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0		<0.01				
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0		<0.01				
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0	<0.01		<0.01	<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0						
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0						
PCBs														
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0						
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0						
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0						
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0						
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0			<0.01				
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0			<0.01				
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0			<0.01				
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0			<0.01				
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0			<0.01				
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0			<0.01				
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0			<0.01				
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0			<0.01				
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0			<0.01				
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0			<0.01				
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0			<0.1				
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0			<0.1				
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0			<0.1				
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0			<0.01				
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0			<0.01				
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0			<0.1				
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0							
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0							
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0			<0.1				
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0			<0.1				
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0			<0.1				
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0			<0.01				
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0							
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1				
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0			<0.1				
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0			<0.01				
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0			<0.01				
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0			<0.1				
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0			<0.01				
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0			<0.01				
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0			<0.01				
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0			<0.01				
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0			<0.01				
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01				
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01				
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0							
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0			<0.1				
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0							
Aluminium		mg/kg	No GAC	-	7410	15900		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0							
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos ACM - Suitable for Water		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
									Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
									Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
									Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
									Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
									Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
										RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0							
Barium		mg/kg	No GAC	-	34	385		0							
Calcium		mg/kg	No GAC	-	11600	59700		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0							
Cobalt		mg/kg	No GAC	-	5	18		0							
Coronene		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	27000	62500		0							
Loss on ignition		%	No GAC	-	0.97	53		0							
Magnesium		mg/kg	No GAC	-	1710	2910		0							
Manganese		mg/kg	No GAC	-	247	750		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	7		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0							
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0							
Perylene		mg/kg	No GAC	-	<0.1	83		0							
Potassium		mg/kg	No GAC	-	690	1840		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0							
Resorcinol		mg/kg	No GAC	-				0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	610		0							
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	222		0							
Titanium		mg/kg	No GAC	-	100	470		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-				0							
Total Aromatics		mg/kg	No GAC	-	5	47100		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-				0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-				0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP119	TP120	TP120	TP121	TP121	TP122
Easting	384483.283	384451.844	384451.844	384442.251	384442.251	384423.36
Northing	399475.961	399460.069	399460.069	399393.368	399393.368	399438.117
Hole Elevation (mOD)	31.601	31.069	31.069	30.274	30.274	30.448
Sample Depth (mbgl)	0.2	1	0.3	0.3	2.3	0.3
Sample Date	09/01/19	09/01/19	09/01/19	11/01/19	11/01/19	11/01/19
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
Geology	MG-G-G	MG-CO	MG-G	MG-G	MG-G-G	MG-G
	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Total Aliphatics and Aromatics C5-C35	120	<10	<10	<10	<10	<10
Total Aromatics C5-C35	<10	<10	<10	<10	<10	<10

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
									Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
									Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
									Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
									Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
									Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		3.3	1.5	11	1.4	2.7	
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		12	12	14	9.7	32	
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		0.8	0.6	0.6	0.6	1.5	
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.3	0.5	0.3	0.2	0.4	
Chromium	33000	mg/kg	58 of 58	0	6	57		0		13	12	16	18	22	
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1		<1	
Copper	44400	mg/kg	58 of 58	0	5	7500		0		57	80	60	7500	62	
Lead	1300	mg/kg	58 of 58	4	4	2250		0		280	280	490	63	54	
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		0.16	0.63	0.68	0.1	0.23	
Nickel	804	mg/kg	58 of 58	0	4	50		0		16	11	15	19	34	
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	0.5	<0.5	<0.5	3.1	
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		20	19	24	19	110	
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		97	140	220	330	240	
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		7.8	8.5	8.5	7.7	8.1	
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		0.8	0.4	0.4	0.1	0.6	
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		1.1	1.3	1.5	1.4	0.3	
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		1.8	2.1	3.4	2.1	15	16
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	Amosite		NAD	
Asbestos Analysts Comments		---	No GAC	-				0		na	na	Amosite present in small bundles		na	
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0							
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3	12	<0.3	<0.3	
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5	<1.5	<1.5		<1.5	
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2	<1.2	<1.2		<1.2	
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5	<1.5	<1.5		<1.5	
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4	<3.4	<3.4		<3.4	
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0						<3.4	
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01	<0.01	<0.01		<0.01	
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01	<0.01	<0.01		<0.01	
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01	<0.01	<0.01		<0.01	
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0		<10	<10	<10			
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
									Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
									Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
									Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
									Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
									Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0		<0.9	<0.9	8.6		<0.9	
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0		<0.5	<0.5	28		<0.5	
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0		<0.6	<0.6	75		<0.6	
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0		<1.4	<1.4	88		<1.4	
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0						<1.4	
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0		<0.01	<0.01	<0.01		<0.01	
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0		<0.01	<0.01	<0.01		<0.01	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0							
TPH >C10-40		mg/kg	No GAC	-	<10	240		0			61				240
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		0.11	0.04	6.1		0.09	
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		<0.03	<0.03	0.23		0.03	
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		0.59	0.68	13		1.2	
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		0.07	<0.03	4		0.11	
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.06	0.12	0.75		0.17	
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		0.58	0.42	20		1.1	
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		0.53	0.7	13		2	
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		<0.03	<0.03	18		0.12	
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0							
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		2.8	3.6	95		7.5	17
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		<0.03	<0.03	0.11		0.1	
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		0.11	0.08	3.7		0.23	
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.18	0.3	3.7		0.48	
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		0.06	0.15	0.93		0.27	
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.1	0.28	2.7		0.41	
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.14	0.36	2.9		0.51	
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.08	0.13	1.2		0.18	
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.21	0.32	4.4		0.61	
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0							
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0							
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0			<0.04				<0.04
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
									Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
									Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
									Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
									Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
									Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0							
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0							
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0							
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0							
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0							
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0							
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0							
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0							
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
									Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
									Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
									Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
									Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
									Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
									Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
									Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
									Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
									Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
									Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0							
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0							
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0							<10
Aluminium		mg/kg	No GAC	-	7410	15900		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0							2
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0		<0.01	<0.01	<0.01			<0.01
Asbestos ACM - Suitable for Water		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
Northing	399613.694	399589.102	399611.16	399748.863	399748.863	399748.863
Hole Elevation (mOD)	32.187	32.203	32.572	41.891	41.891	41.891
Sample Depth (mbgl)	0.3	1	1	11.7	0.5	1.2
Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0						
Barium		mg/kg	No GAC	-	34	385		0						
Calcium		mg/kg	No GAC	-	11600	59700		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0						
Cobalt		mg/kg	No GAC	-	5	18		0						
Coronene		mg/kg	No GAC	-				0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	27000	62500		0						
Loss on ignition		%	No GAC	-	0.97	53		0		3.1				9.6
Magnesium		mg/kg	No GAC	-	1710	2910		0						
Manganese		mg/kg	No GAC	-	247	750		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	7		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0						
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0		<0.01				<0.01
Perylene		mg/kg	No GAC	-	<0.1	83		0						
Potassium		mg/kg	No GAC	-	690	1840		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0						
Resorcinol		mg/kg	No GAC	-				0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	610		0						
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	222		0						
Titanium		mg/kg	No GAC	-	100	470		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-				0						
Total Aromatics		mg/kg	No GAC	-	5	47100		0						
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-				0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-				0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0					<10	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	WS101	WS102	WS103	BH203	BH203	BH203
Easting	384734.621	384761.314	384813.849	384845.747	384845.747	384845.747
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Sample Date	08/01/19	07/01/19	07/01/19	13/04/21	12/04/21	12/04/21
Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604	NW1604
Geology	MG-G	MG-G-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Aliphatics and Aromatics C10-C44					<10	
Total Aliphatics and Aromatics C5-C35	<10	<10	200			
Total Aromatics C5-C35	<10	<10	200			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
									Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
									Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
									Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
									Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
									Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		7.3	3.9	5.6	6.1	4.7	2.9
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		20	29	32	11	26	18
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		1.6	1.4	1.4	1.6	1.5	1
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		1.1	0.4	1.4	0.4	0.7	0.4
Chromium	33000	mg/kg	58 of 58	0	6	57		0		15	16	23	10	17	13
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1		<1	<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		150	180	260	80	210	91
Lead	1300	mg/kg	58 of 58	4	4	2250		0		200	280	430	850	370	100
Manganese		mg/kg	No GAC	-	350	1400		0				1400		350	
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		1.8	24	0.88	0.3	0.45	<0.05
Nickel	804	mg/kg	58 of 58	0	4	50		0		29	29	42	21	26	25
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	<0.5	1.8	0.6	<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		47	46	50	35	36	25
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		260	220	1500	210	160	100
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		8	8	7.1	9	7.3	6.8
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		<0.1	1.7	0.9	0.3	3.1	0.2
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0				0.9		2.9	0.2
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0				<0.1		0.2	<0.1
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0				0.6		<0.6	1.3
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		0.3	1.1	1.2	0.6	0.7	0.7
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		1.6	1.5	2.5	1.1	3.2	6.1
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0						0.005	
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD		Chrysotile	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na		Bundles of Chrysotile fibres	na
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3	<0.3	<0.3	0.3	0.8
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5		<1.5		<1.5	3
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2		<1.2		<1.2	17
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5		<1.5		<1.5	25
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4		<3.4		<3.4	22
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0		<3.4		<3.4		<3.4	<3.4
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01		<0.01		<0.01	<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01		<0.01		<0.01	<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01		<0.01		<0.01	<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
									Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
									Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
									Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
									Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
									Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0		18		<0.9		4.3	9.5
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0		42		1.8		25	100
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0		42		17		61	360
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0		15		23		89	560
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0		<1.4		<1.4		<1.4	35
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0		<0.01		<0.01		<0.01	<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0		1.6		<0.01		<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0							
TPH >C10-40		mg/kg	No GAC	-	<10	240		0							
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		1.3		0.46		3.1	19
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		0.05		0.06		0.15	**5**
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		2.4		3.8		12	120
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		1.4		0.36		2.3	15
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.26		0.24		0.66	14
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		7.1		3.8		15	110
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		4.6		3.2		10	110
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		2.2		0.15		1.4	7
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0							
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		39		18		60	620
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		0.3		<0.03		<0.03	0.44
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		1.5		0.89		3.2	24
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.84		1.2		2.9	43
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		0.48		0.28		0.83	16
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.8		0.6		1.8	**26**
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.62		1		2.6	**37**
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.22		0.4		0.93	17
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.83		1.1		3	50
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		0.12		<0.01		<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01		<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		0.22		<0.01		<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0		<0.1					
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0		<0.1					
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		0.57		<0.01		<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0							
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
									Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
									Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
									Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
									Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
									Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0		<0.1					
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0		<0.1					
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0		<0.1					
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0		<0.1					
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0		<0.1					
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0		<0.1					
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0		<0.1					
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0		<0.1					
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0		<0.1					
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0		<0.1					
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0		<0.1					
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0		1.7					
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1					
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.1					
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1					
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0		<0.1					
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.1					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
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Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0	<0.1					
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0	<0.1					
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0	<0.1					
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0	<0.1					
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0						
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0						
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0	<0.1					
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0	<0.1					
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0	<0.1					
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0	<0.1					
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0	<0.1					
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0						
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0	<0.1					
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0	<0.1					
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0	<0.1					
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0	<0.1					
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0	<0.1					
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.1					
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0	<0.1					
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0	<0.1					
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0	<0.1					
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0	<0.1					
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.1					
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0	<0.1					
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0	<0.1					
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0	<0.1					
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH203	BH204	BH212	BH212	BH212A	BH213
Easting					384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
Northing					399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
Hole Elevation (mOD)					41.891	43.276	30.377	30.377	30.484	31.943
Sample Depth (mbgl)					6.2	1.2	0.4	2.2	0.6	1.2
Sample Date					12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
Investigation					NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
					St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0		
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0		
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0		
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0		
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0		
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0		
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0		
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0		
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0		
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0		
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0		
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0		
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0		
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0		
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0		
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0		
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0		
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0		
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0		
Propham		mg/kg	No GAC	-	<0.1	<0.1		0		
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0		
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0		
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0		
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0		
Pesticides										
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0		
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
2,3,5,6-Tetrachlorophenol	<0.1					
3+4-Methylphenol	<0.1					
4-Chlorophenyl Phenyl Ether	<0.1					
Aliphatics >C10-44	<10	<10		<10		58
Aro >C5-C7	0.12	<0.01		<0.01		<0.01

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Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0						
Barium		mg/kg	No GAC	-	34	385		0						
Calcium		mg/kg	No GAC	-	11600	59700		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0						
Cobalt		mg/kg	No GAC	-	5	18		0						
Coronene		mg/kg	No GAC	-				0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	27000	62500		0			46000		27000	
Loss on ignition		%	No GAC	-	0.97	53		0						
Magnesium		mg/kg	No GAC	-	1710	2910		0						
Manganese		mg/kg	No GAC	-	247	750		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	7		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0						
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0						
Perylene		mg/kg	No GAC	-	<0.1	83		0						
Potassium		mg/kg	No GAC	-	690	1840		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0						
Resorcinol		mg/kg	No GAC	-				0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	610		0						
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	222		0						
Titanium		mg/kg	No GAC	-	100	470		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0						
Total Aromatics		mg/kg	No GAC	-				0						
Total Aromatics		mg/kg	No GAC	-	5	47100		0						
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-				0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-				0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0	95		36		150	930

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH203	BH204	BH212	BH212	BH212A	BH213
Easting	384845.747	384815.474	384487.32	384487.32	384491.195	384475.449
Northing	399748.863	399703.59	399426.078	399426.078	399435.083	399487.578
Hole Elevation (mOD)	41.891	43.276	30.377	30.377	30.484	31.943
Sample Depth (mbgl)	6.2	1.2	0.4	2.2	0.6	1.2
Sample Date	12/04/21	31/03/21	29/03/21	29/03/21	30/03/21	31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-G
	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Ortho Phosphate as P			0.14		42	
Total Aliphatics and Aromatics C10-C44	95		36		150	980

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH214	BH214A	TP204	TP204	TP205	TP205
									Easting	384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
									Northing	399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
									Hole Elevation (mOD)	30.366	30.033	42.12	42.12	40.96	40.96
									Sample Depth (mbgl)	1.1	2.2	3	1	1	2
									Sample Date	29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		2.2	<1	<1			1.5
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		20	17	4.7			9.3
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		1.7	0.8	0.4			1
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.3	0.2	0.2			0.2
Chromium	33000	mg/kg	58 of 58	0	6	57		0		12	8.6	12			24
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1	<1	<1			<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		94	150	25			38
Lead	1300	mg/kg	58 of 58	4	4	2250		0		870	520	11			43
Manganese		mg/kg	No GAC	-	350	1400		0		460					
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		0.06	0.24	<0.05			0.19
Nickel	804	mg/kg	58 of 58	0	4	50		0		29	18	19			32
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	<0.5	<0.5			<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		33	20	14			28
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		65	48	40			63
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		7.4	8.2	8.1			7.8
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		0.1	<0.1	0.2			0.6
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0		<0.2		<0.2			0.5
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0		<0.1		<0.1			0.1
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0		<0.6		<0.6			1.4
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		1.1	1.2	0.3			0.4
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		3.3	3.4	2.1		1.2	11
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0		NAD	NAD	NAD			NAD
Asbestos Analysts Comments		---	No GAC	-				0		na	na	na			na
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3	<0.3			<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5	<1.5	<1.5			<1.5
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2	<1.2	<1.2			<1.2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5	<1.5	<1.5			<1.5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4	30	<3.4			<3.4
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0		<3.4	<3.4	<3.4			<3.4
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01	<0.01	<0.01			<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01	<0.01	<0.01			<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01	<0.01	<0.01			<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0
TPH >C10-40		mg/kg	No GAC	-	<10	240		0
PAH								
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0
Pah,Total		mg/kg	No GAC	-	<0.1	620		0
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0
BTEX								
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0
BTEX and MTBE Total		mg/kg	No GAC	-				0
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0
PCBs								
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0

Hole Ref	BH214	BH214A	TP204	TP204	TP205	TP205
Easting	384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
Northing	399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
Hole Elevation (mOD)	30.366	30.033	42.12	42.12	40.96	40.96
Sample Depth (mbgl)	1.1	2.2	3	1	1	2
Sample Date	29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
	RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	<0.9	<0.9	<0.9			<0.9
Aro >C12-C16	<0.5	<0.5	<0.5			<0.5
Aro >C16-C21	<0.6	<0.6	<0.6			<0.6
Aro >C21-C35	<1.4	<1.4	<1.4			<1.4
Aro >C35-C44	<1.4	<1.4	<1.4			<1.4
Aro >C7-C8	<0.01	<0.01	<0.01			<0.01
Aro >C8-C10	<0.01	<0.01	<0.01			<0.01
Mineral Oil (>C10-C40)						
TPH (Ali & Aro >C5-C35)						
TPH (Ali & Aro >C5-C44)						
TPH >C10-40					<10	
PAH						
Acenaphthene	0.04	<0.03	<0.03			<0.03
Dibenz-a-h-anthracene	<0.03	<0.03	<0.03			<0.03
Fluoranthene	0.55	0.23	0.03			<0.03
Fluorene	0.05	<0.03	<0.03			<0.03
Indeno(1,2,3-cd)pyrene	0.04	0.06	<0.03			<0.03
Phenanthrene	0.76	0.19	<0.03			<0.03
Pyrene	0.46	0.23	0.06			<0.03
Naphthalene	<0.03	0.05	0.02			<0.01
PAH (total 17)						
Total PAH-16MS						
Pah,Total	2.5	1.4	0.28		<1.6	<0.1
Acenaphthylene	<0.03	<0.03	<0.03			<0.03
Anthracene	0.12	0.04	<0.03			<0.03
Benzo(a)anthracene	0.15	0.1	0.03			<0.03
Benzo (g,h,i) perylene	0.03	0.08	<0.03			<0.03
Benzo(a)pyrene	0.08	0.08	<0.03			<0.03
Benzo(b)fluoranthene	0.1	0.13	<0.03			<0.03
Benzo(k)fluoranthene	0.06	0.05	<0.03			<0.03
Chrysene	0.15	0.16	<0.03			<0.03
BTEX						
BTEX - Benzene	<0.01	<0.01	0.03		<0.01	<0.01
BTEX - Toluene	<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	<0.01	<0.01	0.02		<0.01	<0.01
BTEX - m & p Xylene			<0.01			<0.01
BTEX - o Xylene			<0.01			<0.01
Xylene	<0.01	<0.01	<0.01		<0.01	<0.01
BTEX and MTBE Total						
BTEX (total)					<0.04	
PCBs						
PCB BZ 105						
PCB BZ 114						
PCB BZ 118						
PCB BZ 123						
PCB BZ 126						
PCB BZ 156						
PCB BZ 157						
PCB BZ 167						
PCB BZ 169						
PCB BZ 189						
PCB BZ 77						
PCB BZ 81						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH214	BH214A	TP204	TP204	TP205	TP205
									Easting	384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
									Northing	399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
									Hole Elevation (mOD)	30.366	30.033	42.12	42.12	40.96	40.96
									Sample Depth (mbgl)	1.1	2.2	3	1	1	2
									Sample Date	29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0				<0.01			<0.01
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0				<0.01			<0.01
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0				<0.01			<0.01
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0				<0.01			<0.01
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0				<0.01			<0.01
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0				<0.01			<0.01
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0				<0.01			<0.01
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0				<0.01			<0.01
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0				<0.01			<0.01
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0				<0.01			<0.01
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0				<0.1			<0.1
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0				<0.1			<0.1
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.01			<0.01
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0				<0.1			<0.1
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.01			<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									BH214	BH214A	TP204	TP204	TP205	TP205
Easting									384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
Northing									399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
Hole Elevation (mOD)									30.366	30.033	42.12	42.12	40.96	40.96
Sample Depth (mbgl)									1.1	2.2	3	1	1	2
Sample Date									29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
Investigation									NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology									MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
									RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0			<0.01			<0.01
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0			<0.01			<0.01
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1			<0.1
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0			<0.1			<0.1
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0						
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0						
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0						
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0			<0.1			<0.1
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0			<0.1			<0.1
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0			<0.1			<0.1
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0			<0.01			<0.01
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01			<0.01
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0						
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1			<0.1
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0			<0.1			<0.1
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0						
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0						
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0			<0.01			<0.01
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0			<0.01			<0.01
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1			<0.1
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0			<0.1			<0.1
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01			<0.01
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0			<0.01			<0.01
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0			<0.01			<0.01
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0						
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0			<0.01			<0.01
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01			<0.01
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0			<0.01			<0.01
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.01			<0.01
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.01			<0.01
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					BH214	BH214A	TP204	TP204
Easting					384401.767	384430.619	384845.704	384845.704
Northing					399368.426	399360.713	399741.07	399741.07
Hole Elevation (mOD)					30.366	30.033	42.12	42.12
Sample Depth (mbgl)					1.1	2.2	3	1
Sample Date					29/03/21	30/03/21	09/04/21	09/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-G	MG-CO	MG-G
					RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH214	BH214A	TP204	TP204	TP205	TP205
									Easting	384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
									Northing	399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
									Hole Elevation (mOD)	30.366	30.033	42.12	42.12	40.96	40.96
									Sample Depth (mbgl)	1.1	2.2	3	1	1	2
									Sample Date	29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
										RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0							
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0							
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0							
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0							
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0							
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0							
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0							
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0							
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0							
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0							
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0							
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0							
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0							
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0							
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0							
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0							
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0							
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0							
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0							
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0							
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0							
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0							
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0							
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0							
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0							
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0				<0.1			<0.1
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0		<10	25	<10			<10
Aluminium		mg/kg	No GAC	-	7410	15900		0							
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0					1.9		
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0		<0.01	<0.01	<0.01			<0.01
Asbestos ACM - Suitable for Water		-	No GAC	-				0							
Asbestos in soil		-	No GAC	-				0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	BH214	BH214A	TP204	TP204	TP205	TP205
Easting	384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
Northing	399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
Hole Elevation (mOD)	30.366	30.033	42.12	42.12	40.96	40.96
Sample Depth (mbgl)	1.1	2.2	3	1	1	2
Sample Date	29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
	RB Terrace	RB Terrace	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Iron	31000					
Loss on ignition						3.6
PCB Total						<0.01
Aromatics >C10-44	<10	<10	<10			<10

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								BH214	BH214A	TP204	TP204	TP205	TP205
Easting								384401.767	384430.619	384845.704	384845.704	384849.258	384849.258
Northing								399368.426	399360.713	399741.07	399741.07	399729.41	399729.41
Hole Elevation (mOD)								30.366	30.033	42.12	42.12	40.96	40.96
Sample Depth (mbgl)								1.1	2.2	3	1	1	2
Sample Date								29/03/21	30/03/21	09/04/21	09/04/21	12/04/21	12/04/21
Investigation								NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology								MG-G	MG-G	MG-CO	MG-G	MG-CO	MG-G
Contaminant Name	**GAC**	**Units**	**Total > LOD**	**Total > GAC**	**Min**	**Max**	**Saturation Value**	**Total > Saturation**	**RB Terrace**	**RB Terrace**	**St Catherine's Wood**	**St Catherine's Wood**	**St Catherine's Wood**	**St Catherine's Wood**
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0						
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0						
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ethers Total (from SVOC)		mg/kg	No GAC	-				0						
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0						
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0	2.7					
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0	<10	25	<10			<10
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0						
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0						
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
									Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
									Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
									Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
									Sample Depth (mbgl)	0.3	2	4	3.7	1	5
									Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0			1.4	1.1	<1	8.7	1.2
Arsenic	168	mg/kg	57 of 58	1	<1	180		0			26	10	4.9	**180**	7.3
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0			1	0.7	<0.2	2.6	0.9
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0			0.3	0.2	<0.1	1.9	0.2
Chromium	33000	mg/kg	58 of 58	0	6	57		0			16	11	9	57	25
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0			<1				
Copper	44400	mg/kg	58 of 58	0	5	7500		0			37	30	11	140	27
Lead	1300	mg/kg	58 of 58	4	4	2250		0			67	61	15	430	11
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0			0.41	0.21	<0.05	0.11	<0.05
Nickel	804	mg/kg	58 of 58	0	4	50		0			33	15	7.4	38	30
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0			0.6	<0.5	<0.5	<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0			25	19	8.9	50	27
Zinc	173000	mg/kg	58 of 58	0	12	1500		0			130	45	22	240	55
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0			8	8.2	7.7	8.2	8
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0							
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0			0.1	<0.1	0.5	0.6	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0			0.3	0.3	0.2	1	0.7
Total Organic Carbon		%	No GAC	-	0.1	48.2		0			4.1	2.6	0.5	2.6	0.9
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0			NAD			NAD	
Asbestos Analysts Comments		---	No GAC	-				0			na			na	
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0			<0.3	<0.3	<0.3	<0.3	<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0					<1.5		
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2					<1.2		
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0					<1.5		
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0					<3.4		
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0					<3.4		
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0					<0.01		
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0					<0.01		
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0					<0.01		
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref								TP205	TP208	TP208	TP219	TP219	WS202
Easting								384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
Northing								399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
Hole Elevation (mOD)								40.96	41.971	41.971	30.697	30.697	41.57
Sample Depth (mbgl)								0.3	2	4	3.7	1	5
Sample Date								12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
Investigation								NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology								MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0				<0.9		
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0				<0.5		
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0				<0.6		
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0				<1.4		
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0				<1.4		
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0				<0.01		
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0				<0.01		
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0						
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0						
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0						
TPH >C10-40		mg/kg	No GAC	-	<10	240		0						
PAH														
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		<0.03		<0.03	0.1	
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		<0.03		<0.03	<0.1	
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		0.09		<0.03	1.7	
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		<0.03		<0.03	<0.1	
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.08		<0.03	0.4	
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		0.05		<0.03	1	
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		0.28		<0.03	1.5	
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		<0.03		<0.01	<0.01	
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0						
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0						
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		1.1		<0.1		
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		<0.03		<0.03	<0.1	
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		<0.03		<0.03	0.3	
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.08		<0.03	0.7	
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		0.14		<0.03	0.4	
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.12		<0.03	0.7	
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.15		<0.03	1	
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.05		<0.03	0.3	
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.07		<0.03	0.7	
BTEX														
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01		<0.01	<0.01	
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01		<0.01	<0.01	
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01		<0.01	<0.01	
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0				<0.01	<0.01	
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0				<0.01	<0.01	
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01		<0.01		
BTEX and MTBE Total		mg/kg	No GAC	-				0						
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0						
PCBs														
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0						
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0						
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0						
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0						
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
									Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
									Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
									Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
									Sample Depth (mbgl)	0.3	2	4	3.7	1	5
									Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0					<0.01	<0.01	
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0					<0.01	<0.01	
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0					<0.01	<0.01	
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0					<0.01	<0.01	
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0					<0.01	<0.01	
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0					<0.01	<0.01	
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0					<0.01	<0.01	
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0					<0.01	<0.01	
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0					<0.01	<0.01	
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0					<0.01	<0.01	
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0					<0.1	<0.1	
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0					<0.1	<0.1	
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0					<0.1	<0.1	
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
									Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
									Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
									Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
									Sample Depth (mbgl)	0.3	2	4	3.7	1	5
									Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0					<0.01	<0.01	
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0					<0.01	<0.01	
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0					<0.1	<0.1	
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0							
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0							
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0					<0.1	<0.1	
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0					<0.1	<0.1	
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0					<0.1	<0.1	
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0					<0.01	<0.01	
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0							
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1	
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0					<0.1	<0.1	
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0					<0.01	<0.01	
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0					<0.01	<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1	
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0					<0.1	<0.1	
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0					<0.01	<0.01	
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0					<0.01	<0.01	
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0					<0.01	<0.01	
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0					<0.01	<0.01	
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.01	<0.01	
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.01	<0.01	
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP205	TP208	TP208	TP219
Easting					384849.258	384846.625	384846.625	384428.702
Northing					399729.41	399752.617	399752.617	399453.431
Hole Elevation (mOD)					40.96	41.971	41.971	30.697
Sample Depth (mbgl)					0.3	2	4	3.7
Sample Date					12/04/21	07/04/21	07/04/21	09/04/21
Investigation					NW1604	NW1604	NW1604	NW1604
Geology					MG-G	MG-G	MG-G	GTD - G
					St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					TP219	WS202		
Easting					384428.702	384863.207		
Northing					399453.431	399774.214		
Hole Elevation (mOD)					30.697	41.57		
Sample Depth (mbgl)					1	5		
Sample Date					09/04/21	28/04/21		
Investigation					NW1604	NW1604		
Geology					MG-G	MG-CO		
					RB Terrace	St Catherine's Wood		
2,4-DB		mg/kg	No GAC	-				0
4-CPA		mg/kg	No GAC	-				0
Ametryne		mg/kg	No GAC	-				0
Atraton		mg/kg	No GAC	-				0
Atrazine	2300	mg/kg	0 of 4	0				0
Benazolin		mg/kg	No GAC	-				0
Bentazone		mg/kg	No GAC	-				0
Bromacil		mg/kg	No GAC	-				0
Bromoxynil		mg/kg	No GAC	-				0
Carbetamide		mg/kg	No GAC	-				0
Chlorbufam		mg/kg	No GAC	-				0
Chlorpropham		mg/kg	No GAC	-				0
Chlortoluron		mg/kg	No GAC	-				0
Clopyralid		mg/kg	No GAC	-				0
Cyfluthrin		mg/kg	No GAC	-				0
Cyhalothrin		mg/kg	No GAC	-				0
Cypermethrin		mg/kg	No GAC	-				0
Deltamethrin		mg/kg	No GAC	-				0
Dicamba		mg/kg	No GAC	-				0
Diclofop		mg/kg	No GAC	-				0
Diuron		mg/kg	No GAC	-				0
Fenvalerate		mg/kg	No GAC	-				0
Flamprop		mg/kg	No GAC	-				0
Flamprop-isopropyl		mg/kg	No GAC	-				0
Ioxynil		mg/kg	No GAC	-				0
Isoproturon		mg/kg	No GAC	-				0
Linuron		mg/kg	No GAC	-				0
MCPA		mg/kg	No GAC	-				0
MCPB		mg/kg	No GAC	-				0
MCPP; (Mecoprop)		mg/kg	No GAC	-				0
Monuron		mg/kg	No GAC	-				0
Permethrin		mg/kg	No GAC	-				0
Picloram		mg/kg	No GAC	-				0
Pirimicarb		mg/kg	No GAC	-				0
Prometon		mg/kg	No GAC	-				0
Prometryn		mg/kg	No GAC	-				0
Propazine		mg/kg	No GAC	-				0
Propham		mg/kg	No GAC	-				0
Simazine		mg/kg	No GAC	-				0
Simetryn		mg/kg	No GAC	-				0
Terbuthylazine		mg/kg	No GAC	-				0
Triclopyr		mg/kg	No GAC	-				0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0				0
Azinphos-ethyl		mg/kg	No GAC	-				0
Azinphos-methyl		mg/kg	No GAC	-				0
Carbophenothion		mg/kg	No GAC	-				0
Chlorfenvinphos		mg/kg	No GAC	-				0
Chlorothalonil		mg/kg	No GAC	-				0
Chlorpyrifos		mg/kg	No GAC	-				0
Chlorpyrifos-methyl		mg/kg	No GAC	-				0
Coumaphos		mg/kg	No GAC	-				0
Diazinon (Dimpylate)		mg/kg	No GAC	-				0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
Sample Depth (mbgl)	0.3	2	4	3.7	1	5
Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
2,3,5,6-Tetrachlorophenol				<0.1	<0.1	
3+4-Methylphenol				<0.1	<0.1	
4-Chlorophenyl Phenyl Ether				<0.1	<0.1	
Aliphatics >C10-44				<10		
Ammoniacal Nitrogen as N			2.6			
Aro >C5-C7				<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
Sample Depth (mbgl)	0.3	2	4	3.7	1	5
Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0						
Barium		mg/kg	No GAC	-	34	385		0						
Calcium		mg/kg	No GAC	-	11600	59700		0						
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0						
Cobalt		mg/kg	No GAC	-	5	18		0						
Coronene		mg/kg	No GAC	-				0						
Cresols		mg/kg	No GAC	-				0						
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0						
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0						
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0						
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0						
EPH CWG GCxGC ID (for FID		-	No GAC	-				0						
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0						
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0						
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0						
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0						
Iron		mg/kg	No GAC	-	27000	62500		0						
Loss on ignition		%	No GAC	-	0.97	53		0						
Magnesium		mg/kg	No GAC	-	1710	2910		0						
Manganese		mg/kg	No GAC	-	247	750		0						
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0						
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Molybdenum		mg/kg	No GAC	-	<1	7		0						
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0						
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0						
Perylene		mg/kg	No GAC	-	<0.1	83		0						
Potassium		mg/kg	No GAC	-	690	1840		0						
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0						
Resorcinol		mg/kg	No GAC	-				0						
SVOC TICs (Tentatively Identified		-	No GAC	-				0						
Silver		mg/kg	No GAC	-	<10	<10		0						
Sulphide		mg/kg	No GAC	-	<5	610		0						
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0						
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0						
Tin		mg/kg	No GAC	-	<5	222		0						
Titanium		mg/kg	No GAC	-	100	470		0						
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0				<10		
Total Aromatics		mg/kg	No GAC	-				0						
Total Aromatics		mg/kg	No GAC	-	5	47100		0						
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0						
Trimethylphenol		mg/kg	No GAC	-				0						
VOC TICs		-	No GAC	-				0						
Xylenols & Ethylphenols		mg/kg	No GAC	-				0						
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0				<10		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	TP205	TP208	TP208	TP219	TP219	WS202
Easting	384849.258	384846.625	384846.625	384428.702	384428.702	384863.207
Northing	399729.41	399752.617	399752.617	399453.431	399453.431	399774.214
Hole Elevation (mOD)	40.96	41.971	41.971	30.697	30.697	41.57
Sample Depth (mbgl)	0.3	2	4	3.7	1	5
Sample Date	12/04/21	07/04/21	07/04/21	09/04/21	09/04/21	28/04/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	GTD - G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace	RB Terrace	St Catherine's Wood

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									WS202	WS202	WS202	WS204	WS204	WS206
Easting									384863.207	384863.207	384863.207	384794	384794	384832.42
Northing									399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
Hole Elevation (mOD)									41.57	41.57	41.57	32.84	32.84	32.61
Sample Depth (mbgl)									0.3	0.5	2	1	3	4
Sample Date									16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
Investigation									NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology									MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
									St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Metal														
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		1.2	<1		<1	<1
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		8.1	4.9		6.5	5.8
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		0.9	0.5		0.4	0.3
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.1	<0.1		<0.1	<0.1
Chromium	33000	mg/kg	58 of 58	0	6	57		0		23	9.9		14	8.2
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1			<1	<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0		28	20		15	12
Lead	1300	mg/kg	58 of 58	4	4	2250		0		25	30		11	6.2
Manganese		mg/kg	No GAC	-	350	1400		0						
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		0.07	0.07		<0.05	0.12
Nickel	804	mg/kg	58 of 58	0	4	50		0		26	13		13	8.5
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<0.5	<0.5		<0.5	<0.5
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		27	13		19	11
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		54	27		43	24
Inorganic														
pH		pH Units	No GAC	-	6.48	11.7		0		7.7	8		7.9	7.8
% Moisture at <40C		% w/w	No GAC	-				0						
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0						
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		<0.1	<0.1		<0.1	<0.1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0						
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0						
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0						
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		0.2	0.5		0.5	0.4
Total Organic Carbon		%	No GAC	-	0.1	48.2		0	14	0.9	2.3	2.1	0.4	0.7
Sulphate (acid soluble)		mg/kg	No GAC	-				0						
Asbestos														
Asbestos Matrix (microscope)		-	No GAC	-				0						
Asbestos Matrix (visual)		-	No GAC	-				0						
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0						
Asbestos (Presence of)		---	No GAC	-				0		NAD			NAD	NAD
Asbestos Analysts Comments		---	No GAC	-				0		na			na	na
Phenol and mineral oils														
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0						
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.3	<0.3		<0.3	<0.3
Phenols Total (from SVOC)		mg/kg	No GAC	-				0						
Phenols, Total		mg/kg	No GAC	-				0						
Cresols		mg/kg	No GAC	-				0						
Xylenols		mg/kg	No GAC	-				0						
TPH														
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1.5			<1.5	<1.5
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		<1.2			<1.2	<1.2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		<1.5			<1.5	<1.5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		<3.4			<3.4	<3.4
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0		<3.4			<3.4	<3.4
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01			<0.01	<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01			<0.01	<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<0.01			<0.01	<0.01
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0						
Total Aliphatics		mg/kg	No GAC	-	2	5930		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
									Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
									Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
									Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
									Sample Depth (mbgl)	0.3	0.5	2	1	3	4
									Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0			<0.9			<0.9	<0.9
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0			<0.5			<0.5	<0.5
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0			<0.6			<0.6	<0.6
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0			<1.4			<1.4	<1.4
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0			<1.4			<1.4	<1.4
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0			<0.01			<0.01	<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0			<0.01			<0.01	<0.01
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0							
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0							
TPH >C10-40		mg/kg	No GAC	-	<10	240		0		210			140		
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0			<0.03			<0.03	<0.03
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0			<0.03			<0.03	<0.03
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0			<0.03			<0.03	<0.03
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0			<0.03			<0.03	<0.03
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0			<0.03			<0.03	<0.03
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0			<0.03			<0.03	<0.03
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0			<0.03			<0.03	<0.03
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1			<0.03			<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0							
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0							
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		27	<0.1		22	<0.1	<0.1
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0			<0.03			<0.03	<0.03
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0			<0.03			<0.03	<0.03
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0			<0.03			<0.03	<0.03
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0			<0.03			<0.03	<0.03
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0			<0.03			<0.03	<0.03
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0			<0.03			<0.03	<0.03
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0			<0.03			<0.03	<0.03
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0			<0.03			<0.03	<0.03
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0							
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0							
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01	<0.01		<0.01	<0.01	<0.01
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0		<0.04			<0.04		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
									Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
									Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
									Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
									Sample Depth (mbgl)	0.3	0.5	2	1	3	4
									Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0							
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0							
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0							
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0							
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0							
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0							
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0							
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0							
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0							
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0							
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0							
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0							
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0							
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0							
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0							
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0							
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0							
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0							
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
									Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
									Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
									Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
									Sample Depth (mbgl)	0.3	0.5	2	1	3	4
									Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0							
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0							
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0							
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0							
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0							
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0							
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0							
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0							
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0							
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0							
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0							
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0							
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0							
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0							
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0							
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0							
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0							
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0							
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0							
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0							
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0							
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0							
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0							
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0							
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0							
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0							
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0							
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0							
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0							
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0							
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0							
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0							
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0							
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0							
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0							
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
									Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
									Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
									Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
									Sample Depth (mbgl)	0.3	0.5	2	1	3	4
									Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0							
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0							
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0							
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0							
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0							
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0							
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0							
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0							
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0							
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0							
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0							
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0							
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0							
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0							
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0							
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0							
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0							
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0							
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0							
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0							
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0							
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Propham		mg/kg	No GAC	-	<0.1	<0.1		0							
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0							
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0							
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Pesticides															
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0							
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0							
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0							
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0							
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
Sample Depth (mbgl)	0.3	0.5	2	1	3	4
Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aliphatics >C10-44			<10		<10	<10
Aro >C5-C7			<0.01		<0.01	<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
									Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
									Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
									Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
									Sample Depth (mbgl)	0.3	0.5	2	1	3	4
									Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
									Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0							
Barium		mg/kg	No GAC	-	34	385		0							
Calcium		mg/kg	No GAC	-	11600	59700		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0							
Cobalt		mg/kg	No GAC	-	5	18		0							
Coronene		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0							
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0							
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0							
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0							
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0							
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0							
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0							
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0							
Iron		mg/kg	No GAC	-	27000	62500		0							
Loss on ignition		%	No GAC	-	0.97	53		0		11			6.4		
Magnesium		mg/kg	No GAC	-	1710	2910		0							
Manganese		mg/kg	No GAC	-	247	750		0							
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0							
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Molybdenum		mg/kg	No GAC	-	<1	7		0							
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0							
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0							
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0		<0.01			<0.01		
Perylene		mg/kg	No GAC	-	<0.1	83		0							
Potassium		mg/kg	No GAC	-	690	1840		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0							
Resorcinol		mg/kg	No GAC	-				0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	610		0							
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0							
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0							
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0							
Tin		mg/kg	No GAC	-	<5	222		0							
Titanium		mg/kg	No GAC	-	100	470		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-				0							
Total Aromatics		mg/kg	No GAC	-	5	47100		0							
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0							
Trimethylphenol		mg/kg	No GAC	-				0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-				0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0			<10			<10	<10

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	WS202	WS202	WS202	WS204	WS204	WS206
Easting	384863.207	384863.207	384863.207	384794	384794	384832.42
Northing	399774.214	399774.214	399774.214	399589.43	399589.43	399627.42
Hole Elevation (mOD)	41.57	41.57	41.57	32.84	32.84	32.61
Sample Depth (mbgl)	0.3	0.5	2	1	3	4
Sample Date	16/04/21	16/04/21	28/04/21	31/03/21		31/03/21
Investigation	NW1604	NW1604	NW1604	NW1604	NW1604	NW1604
Geology	MG-G	MG-G	MG-G	MG-G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Aliphatics and Aromatics C10-C44		<10			<10	<10

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Metal								
Antimony	3290	mg/kg	38 of 58	0	<1	131		0
Arsenic	168	mg/kg	57 of 58	1	<1	180		0
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0
Chromium	33000	mg/kg	58 of 58	0	6	57		0
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0
Copper	44400	mg/kg	58 of 58	0	5	7500		0
Lead	1300	mg/kg	58 of 58	4	4	2250		0
Manganese		mg/kg	No GAC	-	350	1400		0
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0
Nickel	804	mg/kg	58 of 58	0	4	50		0
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0
Vanadium	5000	mg/kg	58 of 58	0	5	110		0
Zinc	173000	mg/kg	58 of 58	0	12	1500		0
Inorganic								
pH		pH Units	No GAC	-	6.48	11.7		0
% Moisture at <40C		% w/w	No GAC	-				0
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0
Total Organic Carbon		%	No GAC	-	0.1	48.2		0
Sulphate (acid soluble)		mg/kg	No GAC	-				0
Asbestos								
Asbestos Matrix (microscope)		-	No GAC	-				0
Asbestos Matrix (visual)		-	No GAC	-				0
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0
Asbestos (Presence of)		---	No GAC	-				0
Asbestos Analysts Comments		---	No GAC	-				0
Phenol and mineral oils								
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0
Phenols Total (from SVOC)		mg/kg	No GAC	-				0
Phenols, Total		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Xylenols		mg/kg	No GAC	-				0
TPH								
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0
Total Aliphatics		mg/kg	No GAC	-	2	5930		0

Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
Sample Depth (mbgl)	1	2	1	9.2	1.7	12
Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
Investigation	NW1604	NW1604	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
	<1		<5		<5	<5
	6.2		12		9	7
	0.6		1		1.1	1.6
	0.1		<0.5		1.3	1
	12		10		20	37
	<1		<1			<1
	20		59		49	15
	43		113		99	102
	<0.05		0.52		0.37	<0.17
	14		12		24	40
	<0.5		<1		<1	<1
	16		14		26	37
	47		39		68	47
	8		8.5		8.41	9.01
			<0.1	<0.1	<0.1	<0.1
	0.1		<1		<1	<1
			<5		<5	<5
	<0.2		<1		<1	<1
	0.3	0.1	NDP	1.39	1.57	0.73
			Loose Fibres			
			0.006			
	NAD					
	na					
			<0.1			
	<0.3		<0.2		<0.2	<0.2
			2		<1	<1
			23		<1	<1
			22		<1	<1
			20		2	2
			30		<1	<1
			<0.01		<0.01	<0.01
			<0.01		<0.01	<0.01
			<1		<1	<1
			98		2	2

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
									Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
									Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
									Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
									Sample Depth (mbgl)	1	2	1	9.2	1.7	12
									Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
									Investigation	NW1604	NW1604	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0				11		<1	<1
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0				47		<1	<1
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0				106		4	1
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0				531		12	4
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0				27		<1	<1
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0				<0.01		<0.01	<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0				5		<1	<1
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0					19		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0				824		18	7
TPH >C10-40		mg/kg	No GAC	-	<10	240		0			<10				
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		0.11		0.39		0.02	<0.01
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		0.04		**2.66**		<0.04	<0.04
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		1.1		17.9		0.27	<0.08
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		0.1		0.99		0.04	<0.01
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.14		14.1		<0.03	<0.03
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		0.95		3.73		0.4	0.06
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		0.95		47.6		0.28	<0.07
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		0.13		1.28		<0.03	<0.03
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0					6.38		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0				195		1.4	<0.08
Pah,Total		mg/kg	No GAC	-	<0.1	620		0		5.4	<1.6				
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		0.03		6.64		<0.01	<0.01
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		0.18		3.81		0.06	<0.02
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.35		11.6		0.09	<0.04
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		0.17		21.3		<0.05	<0.05
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.28		**24.7**		0.06	<0.04
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.37		15.7		0.07	<0.05
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.14		5.2		<0.07	<0.07
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.42		17.2		0.11	<0.06
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01	<0.01	<0.01		<0.01	<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0				<0.01		<0.01	<0.01
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0				<0.01		<0.01	<0.01
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0		<0.01	<0.01				
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0			<0.04		<0.01		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0				<0.007			<0.007
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0				<0.005			<0.005
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0				<0.005			<0.005

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
									Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
									Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
									Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
									Sample Depth (mbgl)	1	2	1	9.2	1.7	12
									Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
									Investigation	NW1604	NW1604	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0				<0.007			<0.007
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0				<0.001			
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0				<0.001			
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0				<0.001			
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0				<0.003			
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0				<0.003			
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0				<0.001			
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0				<0.002			
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0				<0.001			
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0				<0.002			
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0				<0.001			
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0				<0.001			
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0				<0.1			
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0				<0.5			
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
									Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
									Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
									Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
									Sample Depth (mbgl)	1	2	1	9.2	1.7	12
									Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
									Investigation	NW1604	NW1604	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0				<0.005			
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0				<0.01			
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0				<0.001			
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0				<0.1			
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0				<0.001			
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0				<0.001			
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0				<0.01			
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0				<0.1			
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0				<0.5			
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0				<0.1			
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0				<0.003			
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0				<0.005			
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0				<0.1			
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0				<0.1			
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0				<0.1			
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0				<0.001			
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0				<0.01	<0.01	<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0				<0.1			
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0				<0.001			
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0				<0.002			
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0				<0.001			
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0				<0.001			
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0				<0.001			
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0				<0.001			
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0				<0.001			
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0				<0.001			
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0							
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					WS206	WS206	BH301	BH301	BH301C	BH302
Easting					384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
Northing					399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
Hole Elevation (mOD)					32.61	32.61	41.87	41.87	41.83	42.76
Sample Depth (mbgl)					1	2	1	9.2	1.7	12
Sample Date					31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
Investigation					NW1604	NW1604	326R	326R	326R	326R
Geology					MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
					St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0		
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0		
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0		
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0		
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0		
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0		
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0		
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0		
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0		
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0		
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0		
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0		
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0		
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0		
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0		
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0		
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0		
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0		
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0		
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0		
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0		
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0		
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0		
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0		
Propham		mg/kg	No GAC	-	<0.1	<0.1		0		
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0		
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0		
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0		
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0		
Pesticides										
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0		
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0		
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
Sample Depth (mbgl)	1	2	1	9.2	1.7	12
Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
Investigation	NW1604	NW1604	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
3+4-Methylphenol	<0.1					
Aro >C5-C7	<0.01		<0.01		<0.01	
Asbestos ACM - Suitable for Water	N/A		N/A		N/A	
Asbestos in soil	Chrysotile		NAD		NAD	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	WS206	WS206	BH301	BH301	BH301C	BH302
Easting	384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
Northing	399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
Hole Elevation (mOD)	32.61	32.61	41.87	41.87	41.83	42.76
Sample Depth (mbgl)	1	2	1	9.2	1.7	12
Sample Date	31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
Investigation	NW1604	NW1604	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)			0.006			
Barium						
Calcium						
Chloride (water sol 2:1)						
Cobalt			5		9	13
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane			<0.001			
Dry Matter (Dry Solids) at 40C				82.4		
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition	0.97					
Magnesium						
Manganese			289		471	497
Mass Sample (1 stage WAC)				0.212		
Methabenzthiazuron						
Molybdenum						
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.01			<0.007		
Perylene			7.52			
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						
Sulphur (elemental)						
Telodrin						
Terbutryn						
Tin						
Titanium						
Total Aliphatics and Aromatics C10-C44						
Total Aromatics						
Total Aromatics			727		15	5
Trichloronate						
Trimethylphenol						
VOC TICs						
Xylenols & Ethylphenols						
Aromatics >C10-44						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref					WS206	WS206	BH301	BH301	BH301C	BH302
Easting					384832.42	384832.42	384852.11	384852.11	384851.03	384826.9
Northing					399627.42	399627.42	399762.18	399762.18	399758.87	399705.6
Hole Elevation (mOD)					32.61	32.61	41.87	41.87	41.83	42.76
Sample Depth (mbgl)					1	2	1	9.2	1.7	12
Sample Date					31/03/21	31/03/21	01/03/22	01/03/22	10/04/22	01/03/22
Investigation					NW1604	NW1604	326R	326R	326R	326R
Geology					MG-G	MG-G	MG-CO	MG-CO	MG-G	MG-CO
					St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0		
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0		
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Ethers Total (from SVOC)		mg/kg	No GAC	-				0		
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0		
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0		
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0		
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0		
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0		
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0		
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0		
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0		
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
									Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
									Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
									Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
									Sample Depth (mbgl)	2	0.5	1	1	0.5	1
									Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0			14		56		131
Arsenic	168	mg/kg	57 of 58	1	<1	180		0			27		44		47
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0			1.4		1.5		2.4
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0			3.1		2.3		3
Chromium	33000	mg/kg	58 of 58	0	6	57		0			28		23		25
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0			<1		<1		<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0			1170		420		231
Lead	1300	mg/kg	58 of 58	4	4	2250		0			**1800**		283		1150
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0			2.1		<0.17		0.37
Nickel	804	mg/kg	58 of 58	0	4	50		0			49		40		49
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0			<1		<1		2
Vanadium	5000	mg/kg	58 of 58	0	5	110		0			30		29		37
Zinc	173000	mg/kg	58 of 58	0	12	1500		0			659		147		99
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0			7.57		8.23		10.32
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0		<0.1	<0.1	17.8	<0.1	<0.1	<0.1
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0			<1		<1		<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0			<1		<1		<1
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		2.3	8.48	3.59	7.85	1.6	14.6
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0			<0.2		<0.2		<0.2
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0			<10		<1		6
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2			49		<1		13
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0			120		<1		16
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0			2980		8		45
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0			1160		<1		32
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0			<0.01		<0.01		<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0			<0.01		<0.01		<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0			<10		<1		7
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0			4310		8		119

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
									Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
									Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
									Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
									Sample Depth (mbgl)	2	0.5	1	1	0.5	1
									Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0			15		<1		7
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0			74		1		22
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0			214		2		51
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0			292		6		284
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0			271		<1		27
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0			<0.01		<0.01		<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0			<10		<2		7
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0		70		1720		697	
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0			5180		18		516
TPH >C10-40		mg/kg	No GAC	-	<10	240		0							
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0			<0.01		0.02		<0.01
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0			<0.04		0.05		<0.04
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0			0.31		0.47		0.32
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0			<0.01		<0.01		<0.01
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0			0.14		0.3		0.15
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0			0.14		0.17		0.17
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0			0.28		0.46		0.32
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1			<0.03		<0.03		0.05
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0		40.9		2.39		1.21	
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0			1.82		3.46		2.22
Pah,Total		mg/kg	No GAC	-	<0.1	620		0							
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0			0.01		0.04		0.03
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0			0.04		0.05		0.06
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0			0.14		0.27		0.18
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0			0.12		0.28		0.14
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0			0.18		0.37		0.22
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0			0.23		0.52		0.28
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0			0.08		0.18		0.1
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0			0.15		0.28		0.2
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0			<0.01		<0.01		<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0			<0.01		<0.01		<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0			<0.01		<0.01		<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0			<0.01		<0.01		<0.01
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0			<0.01		<0.01		<0.01
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0							
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0		0.02		<0.01		<0.01	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0			<0.005		**0.023**		<0.005
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0			<0.007		<0.007		<0.007
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0			<0.005		**0.039**		**0.007**
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0			<0.005		**0.031**		<0.005
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005		<0.005		<0.005

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
									Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
									Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
									Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
									Sample Depth (mbgl)	2	0.5	1	1	0.5	1
									Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
										St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0			<0.007		0.093		0.007
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0			<0.001		<0.001		<0.001
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0			<0.001		<0.001		<0.001
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0			<0.001		<0.001		<0.001
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0			<0.003		<0.003		<0.003
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0			<0.003		<0.003		<0.003
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0			<0.001		<0.001		<0.001
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0			<0.002		<0.002		<0.002
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0			<0.001		<0.001		<0.001
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0			<0.002		<0.002		<0.002
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0			<0.001		<0.001		<0.001
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0			<0.001		<0.001		<0.001
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0			4.32		<0.1		0.332
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0			<0.1		<0.1		<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			<0.001		<0.001		<0.001
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1		<0.1		<0.1
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0			7.85		<0.5		<0.5
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0			<0.001		<0.001		<0.001

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
Sample Depth (mbgl)	2	0.5	1	1	0.5	1
Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Bromochloromethane		<0.005	<0.005	<0.005		<0.005
Bromodichloromethane		<0.01	<0.01	<0.01		<0.01
Bromoform		<0.001	<0.001	<0.001		<0.001
Bromomethane		<0.001	<0.001	<0.001		<0.001
Butylbenzyl phthalate		<0.1	<0.1	<0.1		<0.1
Carbazole		1.95	<0.1	1.95		0.159
Carbon Disulphide		<0.001	<0.001	<0.001		<0.001
Carbon Tetrachloride		<0.001	<0.001	<0.001		<0.001
Chlorobenzene		<0.001	<0.001	<0.001		<0.001
Chloroethane		<0.001	<0.001	<0.001		<0.001
Chloroethene		<0.001	<0.001	<0.001		<0.001
Chloroform		<0.001	<0.001	<0.001		<0.001
Chloromethane		<0.01	<0.01	<0.01		<0.01
Di-N-Butyl Phthalate		0.345	<0.1	0.345		<0.1
Di-N-Octyl Phthalate		<0.5	<0.5	<0.5		<0.5
Dibenzofuran		3.24	<0.1	3.24		0.21
Dibromochloromethane		<0.003	<0.003	<0.003		<0.003
Dibromomethane		<0.001	<0.001	<0.001		<0.001
Dichloromethane		<0.005	<0.005	<0.005		<0.005
Diethyl phthalate		<0.1	<0.1	<0.1		<0.1
Dimethyl phthalate		<0.1	<0.1	<0.1		<0.1
Diphenylamine						
Hexachlorobenzene	<0.01	<0.1	<0.1	<0.1		<0.1
Hexachlorobutadiene		<0.001	<0.001	<0.001		<0.001
Hexachlorocyclopentadiene		<0.1	<0.1	<0.1		<0.1
Hexachloroethane		<0.1	<0.1	<0.1		<0.1
Isophorone		<0.1	<0.1	<0.1		<0.1
Isopropylbenzene		<0.001	<0.001	<0.001		<0.001
M-Dinitrobenzene						
MTBE		<0.01	<0.01	<0.01		<0.01
Nitrobenzene		<0.1	<0.1	<0.1		<0.1
O-Dinitrobenzene						
P-Dinitrobenzene						
PCP; (Pentachlorophenol)	<0.1	<0.1	<0.1	<0.1		<0.1
Sec-Butylbenzene		<0.001	<0.001	<0.001		<0.001
Styrene		<0.001	<0.001	<0.001		<0.001
Tert-Butylbenzene		<0.002	<0.002	<0.002		<0.002
Tetrachloroethene		<0.001	0.004	<0.001		<0.001
Trichloroethene		<0.001	<0.001	<0.001		<0.001
Trichlorofluoromethane		<0.001	<0.001	<0.001		<0.001
cis 1,2-Dichloroethene		<0.001	<0.001	<0.001		<0.001
cis 1,3-Dichloropropene		<0.001	<0.001	<0.001		<0.001
cis1,3-Dichloropropene						
n-Butylbenzene		<0.001	<0.001	<0.001		<0.001
n-Nitroso-n-dipropylamine		<0.1	<0.1	<0.1		<0.1
n-Propylbenzene		<0.001	<0.001	<0.001		<0.001
trans 1,2-Dichloroethene		<0.001	<0.001	<0.001		<0.001
trans 1,3-Dichloropropene		<0.001	<0.001	<0.001		<0.001
VOC Total (excl. BTEX)						
Herbicides						
2,3,6-TBA	<0.1					
2,4,5-TP; (Fenoprop); (Silvex)	<0.1					
2,4-D	<0.1					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
Sample Depth (mbgl)	2	0.5	1	1	0.5	1
Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0	<0.2					
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0	<0.01					
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0	<0.1					
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02					
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02					
Propham		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0	<0.02					
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0	<0.1					
Pesticides														
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0	<0.01					
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0	<0.01					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
Sample Depth (mbgl)	2	0.5	1	1	0.5	1
Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Dichlobenil	<0.01					
Dichlorvos	<0.01					
Dieldrin	<0.01					
Dimethoate	<0.01					
Disulfoton	<0.1					
Endosulphan I (Alpha)	<0.01					
Endosulphan II (Beta)	<0.01					
Endosulphan Sulphate	<0.01					
Endrin	<0.01					
Ethion	<0.01					
Fenitrothion	<0.01					
Fenthion	<0.01					
Heptachlor	<0.01					
Heptachlor epoxide	<0.01					
Isodrin	<0.01					
Malathion	<0.01					
Methyl Parathion	<0.01					
Mevinphos	<0.01					
Parathion (Ethyl Parathion)	<0.01					
Pendimethalin	<0.01					
Permethrin II (trans)	<0.01					
Phorate	<0.01					
Phosalone	<0.01					
Pirimiphos-methyl	<0.01					
Propetamphos	<0.01					
Quintozene (PCNB)	<0.01					
Tecnazene	<0.01					
Triadimefon	<0.01					
Triallate	<0.01					
Triazophos	<0.01					
Trifluralin	<0.01					
alpha-Hexachlorocyclohexane (HCH)	<0.01					
beta-Hexachlorocyclohexane (HCH)	<0.01					
cis-Chlordane (Alpha)	<0.01					
delta-Hexachlorocyclohexane (HCH)	<0.01					
o,p-DDD (2,4)	<0.01					
o,p-DDE (2,4)	<0.01					
o,p-DDT (2,4)	<0.01					
o,p-Methoxychlor	<0.01					
p,p-DDE (4,4)	<0.01					
p,p-DDT (4,4)	<0.01					
trans-Chlordane (Gamma)	<0.01					
2,3,5,6-Tetrachlorophenol						
2,4,5-T	<0.1					
2,4-DP; (Dichlorprop)	<0.1					
3+4-Methylphenol	0.117	<0.1	<0.1			
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium	15900	8160	14500			
Ammoniacal Nitrogen as N						
Aro >C5-C7	<0.01	<0.01	<0.01			
Asbestos ACM - Suitable for Water	N/A	N/A	N/A			
Asbestos in soil	NAD	NAD	NAD			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
Easting	384826.9	384520.14	384520.14	384461.01	384473.67	384473.67
Northing	399705.6	399490.63	399490.63	399430.12	399399.76	399399.76
Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
Sample Depth (mbgl)	2	0.5	1	1	0.5	1
Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
Asbestos in soil % composition (hand picking and weighing)						
Barium						169
Calcium		59700		14900		39900
Chloride (water sol 2:1)						90
Cobalt		10		13		18
Coronene						
Cresols						
Cyanazine	<0.02					
Demeton-S	<0.5					
Dichlorodifluoromethane		<0.001		<0.001		<0.001
Dry Matter (Dry Solids) at 40C	80.9		87.2		92.9	
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde	<0.01					
Endrin Ketone	<0.01					
Ethylene glycol (Monoethylene glycol)						
Fensulphothion	<0.01					
Fluoride (water sol 2:1)						
Fluroxypyr	<0.1					
Iron		40700		35400		57500
Loss on ignition						15.3
Magnesium		2910		2610		2900
Manganese		486		545		428
Mass Sample (1 stage WAC)	0.216		0.201		0.188	
Methabenzthiazuron	<0.1					
Molybdenum						7
Monolinuron	<0.1					
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.007		<0.007		<0.007	
Perylene		2.65		<0.1		1.96
Potassium		1710		1270		1840
Prothiofos (Tokuthion)	<0.01					
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver		<10		<10		<10
Sulphide						<5
Sulphur (elemental)						<5
Telodrin	<0.01					
Terbutryn	<0.02					
Tin		66		30		222
Titanium		230		100		470
Total Aliphatics and Aromatics C10-C44						
Total Aromatics						
Total Aromatics		866		10		397
Trichloronate	<0.01					
Trimethylphenol						
VOC TICs						
Xylenols & Ethylphenols						
Aromatics >C10-44						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Hole Ref	BH302	BH306	BH306	BH307	BH308	BH308
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Hole Elevation (mOD)	42.76	31.45	31.45	30.61	30.2	30.2
Sample Depth (mbgl)	2	0.5	1	1	0.5	1
Sample Date	01/03/22	15/03/22	15/03/22	14/03/22	14/03/22	14/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	MG-G	MG-CO	MG-G	MG-G
	St Catherine's Wood	RB Terrace	RB Terrace	RB Terrace	RB Terrace	RB Terrace
	<0.1					
	<0.5					
	<0.1					
	<0.1					
	<0.1					
	<0.1					
	<0.1					
	<0.01					
	<0.1					
	<0.01					
	<0.01					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
									Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
									Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
									Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
									Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
									Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0			<5	<5			18
Arsenic	168	mg/kg	57 of 58	1	<1	180		0			25	2			15
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0			1	<0.5			1.3
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0			1.2	<0.5			1.8
Chromium	33000	mg/kg	58 of 58	0	6	57		0			23	6			24
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0				<1			<1
Copper	44400	mg/kg	58 of 58	0	5	7500		0			71	6			144
Lead	1300	mg/kg	58 of 58	4	4	2250		0			169	9			**2250**
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0			0.57	<0.17			1.12
Nickel	804	mg/kg	58 of 58	0	4	50		0			18	7			34
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0			<1	<1			2
Vanadium	5000	mg/kg	58 of 58	0	5	110		0			18	7			35
Zinc	173000	mg/kg	58 of 58	0	12	1500		0			59	17			111
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0			8.25	7.82			8.26
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0		11.2	<0.1	<0.1	<0.1	<0.1	9.1
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0			<1	1			<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0							
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0			<1	<1			<1
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		6.33	6.6	0.36		7.01	12
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0							
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0							
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0			<0.2	<0.2			<0.2
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0			<1	89			<1
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2			1	<1			<1
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0			1	6			3
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0			4	36			120
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0			2	4			10
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0			<0.01	<0.01			<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0			<0.01	<0.01			<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0			<1	143			<1
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0			8	278			134

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
									Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
									Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
									Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
									Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
									Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0			<1	15			<1
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0			5	<1			3
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0			15	<1			21
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0			38	<1			74
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0			2	<1			2
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0			<0.01	<0.01			<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0			1	13			<1
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0		<50				<50	
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0			70	306			234
TPH >C10-40		mg/kg	No GAC	-	<10	240		0							
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0			0.02	0.01			0.26
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0			<0.04	<0.04			<0.04
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0			0.14	<0.08			1.07
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0			0.01	0.01			0.23
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0			<0.03	<0.03			0.15
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0			0.14	0.13			1.41
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0			0.15	<0.07			1.07
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1			<0.03	<0.03			0.08
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0		63.4				12	
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0			0.56	0.15			6.32
Pah,Total		mg/kg	No GAC	-	<0.1	620		0							
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0			<0.01	<0.01			<0.01
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0			<0.02	<0.02			0.41
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0			0.05	<0.04			0.38
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0			<0.05	<0.05			0.14
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0			0.05	<0.04			0.31
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0			<0.05	<0.05			0.26
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0			<0.07	<0.07			0.12
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0			<0.06	<0.06			0.43
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0			<0.01	<0.01	<0.001		<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0			<0.01	<0.01	<0.001		<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0			<0.01	<0.01	<0.001		<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0			<0.01	<0.01	<0.001		<0.01
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0			<0.01	<0.01	<0.001		<0.01
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0							
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0		<0.01				<0.01	
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0							<0.005
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0							<0.007
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0							<0.005
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0							<0.005
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0							<0.005

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ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
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									Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0							<0.007
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0					<0.001		<0.001
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0					<0.001		<0.001
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0					<0.001		<0.001
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0					<0.003		<0.003
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0					<0.003		<0.003
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0					<0.001		<0.001
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0					<0.002		<0.002
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0					<0.001		<0.001
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0					<0.002		<0.002
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0					<0.001		<0.001
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0					<0.001		<0.001
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0					<0.1		<0.1
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1		<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001		<0.001
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		<0.1
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0					<0.5		<0.5
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001		<0.001

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0

Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Bromochloromethane				<0.005		<0.005
Bromodichloromethane				<0.01		<0.01
Bromoform				<0.001		<0.001
Bromomethane				<0.001		<0.001
Butylbenzyl phthalate				<0.1		<0.1
Carbazole				<0.1		<0.1
Carbon Disulphide				<0.001		<0.001
Carbon Tetrachloride				<0.001		<0.001
Chlorobenzene				<0.001		<0.001
Chloroethane				<0.001		<0.001
Chloroethene				<0.001		<0.001
Chloroform				<0.001		<0.001
Chloromethane				<0.01		<0.01
Di-N-Butyl Phthalate				<0.1		<0.1
Di-N-Octyl Phthalate				<0.5		<0.5
Dibenzofuran				<0.1		<0.1
Dibromochloromethane				<0.003		<0.003
Dibromomethane				<0.001		<0.001
Dichloromethane				<0.005		<0.005
Diethyl phthalate				<0.1		<0.1
Dimethyl phthalate				<0.1		<0.1
Diphenylamine						
Hexachlorobenzene				<0.01		<0.1
Hexachlorobutadiene				<0.001		<0.001
Hexachlorocyclopentadiene				<0.1		<0.1
Hexachloroethane				<0.1		<0.1
Isophorone				<0.1		<0.1
Isopropylbenzene				<0.001		<0.001
M-Dinitrobenzene						
MTBE	<0.01	<0.01				<0.01
Nitrobenzene				<0.1		<0.1
O-Dinitrobenzene						
P-Dinitrobenzene						
PCP; (Pentachlorophenol)				<0.1		<0.1
Sec-Butylbenzene				<0.001		<0.001
Styrene				<0.001		<0.001
Tert-Butylbenzene				<0.002		<0.002
Tetrachloroethene				<0.001		<0.001
Trichloroethene				<0.001		<0.001
Trichlorofluoromethane				<0.001		<0.001
cis 1,2-Dichloroethene				<0.001		<0.001
cis 1,3-Dichloropropene				<0.001		<0.001
cis1,3-Dichloropropene						
n-Butylbenzene				<0.001		<0.001
n-Nitroso-n-dipropylamine				<0.1		<0.1
n-Propylbenzene				<0.001		<0.001
trans 1,2-Dichloroethene				<0.001		<0.001
trans 1,3-Dichloropropene				<0.001		<0.001
VOC Total (excl. BTEX)						
Herbicides						
2,3,6-TBA				<0.1		
2,4,5-TP; (Fenoprop); (Silvex)				<0.1		
2,4-D				<0.1		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0				<0.2		
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0				<0.01		
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0				<0.1		
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02		
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02		
Propham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02		
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1		
Pesticides														
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0				<0.01		
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Dichlobenil				<0.01		
Dichlorvos				<0.01		
Dieldrin				<0.01		
Dimethoate				<0.01		
Disulfoton				<0.1		
Endosulphan I (Alpha)				<0.01		
Endosulphan II (Beta)				<0.01		
Endosulphan Sulphate				<0.01		
Endrin				<0.01		
Ethion				<0.01		
Fenitrothion				<0.01		
Fenthion				<0.01		
Heptachlor				<0.01		
Heptachlor epoxide				<0.01		
Isodrin				<0.01		
Malathion				<0.01		
Methyl Parathion				<0.01		
Mevinphos				<0.01		
Parathion (Ethyl Parathion)				<0.01		
Pendimethalin				<0.01		
Permethrin II (trans)				<0.01		
Phorate				<0.01		
Phosalone				<0.01		
Pirimiphos-methyl				<0.01		
Propetamphos				<0.01		
Quintozene (PCNB)				<0.01		
Tecnazene				<0.01		
Triadimefon				<0.01		
Triallate				<0.01		
Triazophos				<0.01		
Trifluralin				<0.01		
alpha-Hexachlorocyclohexane (HCH)				<0.01		
beta-Hexachlorocyclohexane (HCH)				<0.01		
cis-Chlordane (Alpha)				<0.01		
delta-Hexachlorocyclohexane (HCH)				<0.01		
o,p-DDD (2,4)				<0.01		
o,p-DDE (2,4)				<0.01		
o,p-DDT (2,4)				<0.01		
o,p-Methoxychlor				<0.01		
p,p-DDE (4,4)				<0.01		
p,p-DDT (4,4)				<0.01		
trans-Chlordane (Gamma)				<0.01		
2,3,5,6-Tetrachlorophenol						
2,4,5-T				<0.1		
2,4-DP; (Dichlorprop)				<0.1		
3+4-Methylphenol				<0.1		<0.1
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7	<0.01	<0.01				<0.01
Asbestos ACM - Suitable for Water	N/A	N/A				N/A
Asbestos in soil	NAD	NAD				NAD

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Asbestos in soil % composition (hand picking and weighing)						
Barium			34			385
Calcium						
Chloride (water sol 2:1)			<10			26
Cobalt						
Coronene						
Cresols						
Cyanazine				<0.02		
Demeton-S				<0.5		
Dichlorodifluoromethane				<0.001		<0.001
Dry Matter (Dry Solids) at 40C	84.2				74.5	
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde				<0.01		
Endrin Ketone				<0.01		
Ethylene glycol (Monoethylene glycol)						
Fensulphothion				<0.01		
Fluoride (water sol 2:1)						
Fluroxypyr				<0.1		
Iron						
Loss on ignition			1			15.9
Magnesium						
Manganese						
Mass Sample (1 stage WAC)	0.208				0.235	
Methabenzthiazuron				<0.1		
Molybdenum			<1			5
Monolinuron				<0.1		
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.007				<0.007	
Perylene				<0.1		0.138
Potassium						
Prothiofos (Tokuthion)				<0.01		
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide			<5			530
Sulphur (elemental)			<5			38
Telodrin				<0.01		
Terbutryn				<0.02		
Tin						
Titanium						
Total Aliphatics and Aromatics C10-C44						
Total Aromatics						
Total Aromatics		62	28			100
Trichloronate				<0.01		
Trimethylphenol						
VOC TICs						
Xylenols & Ethylphenols						
Aromatics >C10-44						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH309	BH309	BH310	BH310	BH310	BH314
									Easting	384863.87	384863.87	384838.09	384838.09	384838.09	384439.7
									Northing	399641.32	399641.32	399638.18	399638.18	399638.18	399502.02
									Hole Elevation (mOD)	30.5	30.5	32.6	32.6	32.6	40.5
									Sample Depth (mbgl)	0.5	1	5.2	3.4	2.5	7.5
									Sample Date	29/03/22	29/03/22	04/04/22	04/04/22	04/04/22	09/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-G	ALV-G	MG-CO	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	RB Terrace
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0					<0.5		
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Ethers Total (from SVOC)		mg/kg	No GAC	-				0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0					<0.01		
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1		
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0					<0.01		
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0					<0.01		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Metal															
Antimony	3290	mg/kg	38 of 58	0	<1	131		0		<5				<5	
Arsenic	168	mg/kg	57 of 58	1	<1	180		0		3				<1	
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0		0.5				<0.5	
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0		0.5				<0.5	
Chromium	33000	mg/kg	58 of 58	0	6	57		0		12				9	
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0		<1				<1	
Copper	44400	mg/kg	58 of 58	0	5	7500		0		27				5	
Lead	1300	mg/kg	58 of 58	4	4	2250		0		155				4	
Manganese		mg/kg	No GAC	-	350	1400		0							
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0		<0.17				<0.17	
Nickel	804	mg/kg	58 of 58	0	4	50		0		15				4	
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0		<1				<1	
Vanadium	5000	mg/kg	58 of 58	0	5	110		0		14				5	
Zinc	173000	mg/kg	58 of 58	0	12	1500		0		51				12	
Inorganic															
pH		pH Units	No GAC	-	6.48	11.7		0		8.65				6.8	
% Moisture at <40C		% w/w	No GAC	-				0							
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0		<0.1	<0.1	48.6	2.3	<0.1	<0.1
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0		<1				<1	
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0							
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0							
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0		<5					
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0		<1				<1	
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		3.34	1.15		0.66	0.23	
Sulphate (acid soluble)		mg/kg	No GAC	-				0							
Asbestos															
Asbestos Matrix (microscope)		-	No GAC	-				0		Loose Fibres					
Asbestos Matrix (visual)		-	No GAC	-				0							
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0		<0.001					
Asbestos (Presence of)		---	No GAC	-				0							
Asbestos Analysts Comments		---	No GAC	-				0							
Phenol and mineral oils															
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1				<0.1	
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0		<0.2				<0.2	
Phenols Total (from SVOC)		mg/kg	No GAC	-				0							
Phenols, Total		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Xylenols		mg/kg	No GAC	-				0							
TPH															
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0		<1				5	
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2		1				23	
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0		4				17	
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0		16				2	
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0		9				5	
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0		<0.01				<0.01	
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0		<0.01				<0.01	
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0		<1				1	
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0							
Total Aliphatics		mg/kg	No GAC	-	2	5930		0		29				54	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0		7				24	
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0		15				79	
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0		20				88	
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0		67				94	
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0		7				5	
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0		<0.01				<0.01	
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0		7				5	
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0			17		57		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0		153				348	
TPH >C10-40		mg/kg	No GAC	-	<10	240		0							
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0		0.02				1.92	
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0		0.13				0.11	
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0		0.56				2.1	
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0		0.04				0.62	
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0		0.77				0.56	
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0		0.42				1.5	
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0		1.57				5.12	
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1		0.29				2.27	
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0			2.47		8.53		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0		8.28				22.3	
Pah,Total		mg/kg	No GAC	-	<0.1	620		0							
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0		0.18				0.5	
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0		0.16				1	
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0		0.56				1.33	
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0		1.15				0.86	
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0		0.88				1.72	
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0		0.65				1	
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0		0.21				0.33	
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0		0.69				1.35	
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0		<0.01				<0.01	
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0		<0.01				<0.01	
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0		<0.01				<0.01	
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0		<0.01				<0.01	
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0		<0.01				<0.01	
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0							
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0			0.01		<0.01		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0		<0.005					
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0		<0.007					
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0		<0.005					
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0		<0.005					
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0		<0.005					

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0		<0.007					
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0						<0.001	
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0						<0.001	
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0						<0.001	
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0						<0.003	
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0						<0.003	
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0						<0.001	
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0		<0.002				<0.002	
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0						<0.001	
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0						<0.002	
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0		<0.001				<0.001	
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0						<0.001	
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0		0.179				1.04	
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				0.002	
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0		<0.5				<0.5	
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0		<0.005				<0.005	
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0		<0.01				<0.01	
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001				<0.001	
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1				<0.1	
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0		<0.1				<0.1	
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0		<0.001				<0.001	
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0		<0.001				<0.001	
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0		<0.01				<0.01	
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0		<0.1				<0.1	
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0		<0.5				<0.5	
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0		<0.1				<0.1	
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0		<0.003				<0.003	
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0		<0.005				<0.005	
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0		<0.1				<0.1	
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0							
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0		<0.1	<0.01			<0.1	<0.01
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0		<0.1				<0.1	
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0		<0.001				<0.001	
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0		<0.01				<0.01	
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0		<0.1	<0.1			<0.1	<0.1
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0		<0.001				<0.001	
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0		<0.002				<0.002	
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001				<0.001	
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001				<0.001	
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0							
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0		<0.1				<0.1	
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0		<0.001				<0.001	
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0		<0.001				<0.001	
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0		<0.001				<0.001	
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0							
Herbicides															
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				<0.1
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				<0.1
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0			<0.1				<0.1

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0				<0.2			<0.2
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0				<0.01			<0.01
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0				<0.5			<0.1
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			<0.02
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			<0.02
Propham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			<0.02
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Pesticides															
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0				<0.01			<0.01
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0
Aluminium		mg/kg	No GAC	-	7410	15900		0
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0
Asbestos ACM - Suitable for Water		-	No GAC	-				0
Asbestos in soil		-	No GAC	-				0

Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Dichlobenil			<0.01			<0.01
Dichlorvos			<0.01			<0.03
Dieldrin			<0.01			<0.01
Dimethoate			<0.01			<0.01
Disulfoton			<0.1			<0.1
Endosulphan I (Alpha)			<0.01			<0.01
Endosulphan II (Beta)			<0.01			<0.01
Endosulphan Sulphate			<0.01			<0.01
Endrin			<0.01			<0.01
Ethion			<0.01			<0.01
Fenitrothion			<0.01			<0.01
Fenthion			<0.01			<0.01
Heptachlor			<0.01			<0.01
Heptachlor epoxide			<0.01			<0.01
Isodrin			<0.01			<0.01
Malathion			<0.01			<0.01
Methyl Parathion			<0.01			<0.01
Mevinphos			<0.01			<0.01
Parathion (Ethyl Parathion)			<0.01			<0.01
Pendimethalin			<0.01			<0.01
Permethrin II (trans)			<0.01			<0.01
Phorate			<0.01			<0.01
Phosalone			<0.01			<0.01
Pirimiphos-methyl			<0.01			<0.01
Propetamphos			<0.01			<0.01
Quintozene (PCNB)			<0.01			<0.01
Tecnazene			<0.01			<0.01
Triadimefon			<0.01			<0.01
Triallate			<0.01			<0.01
Triazophos			<0.01			<0.01
Trifluralin			<0.01			<0.01
alpha-Hexachlorocyclohexane (HCH)			<0.01			<0.01
beta-Hexachlorocyclohexane (HCH)			<0.01			<0.01
cis-Chlordane (Alpha)			<0.01			<0.01
delta-Hexachlorocyclohexane (HCH)			<0.01			<0.01
o,p-DDD (2,4)			<0.01			<0.01
o,p-DDE (2,4)			<0.01			<0.01
o,p-DDT (2,4)			<0.01			<0.01
o,p-Methoxychlor			<0.01			<0.01
p,p-DDE (4,4)			<0.01			<0.01
p,p-DDT (4,4)			<0.01			<0.01
trans-Chlordane (Gamma)			<0.01			<0.01
2,3,5,6-Tetrachlorophenol						
2,4,5-T			<0.1			<0.1
2,4-DP; (Dichlorprop)			<0.1			<0.1
3+4-Methylphenol	<0.1			<0.1		
4-Chlorophenyl Phenyl Ether						
Aliphatics >C10-44						
Aluminium						
Ammoniacal Nitrogen as N						
Aro >C5-C7	<0.01			<0.01		
Asbestos ACM - Suitable for Water	N/A			N/A		
Asbestos in soil	Chrysotile			NAD		

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0		<0.001					
Barium		mg/kg	No GAC	-	34	385		0		103					
Calcium		mg/kg	No GAC	-	11600	59700		0							
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0		<10					
Cobalt		mg/kg	No GAC	-	5	18		0		6					
Coronene		mg/kg	No GAC	-				0							
Cresols		mg/kg	No GAC	-				0							
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			<0.02
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0				<0.5			<0.5
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0		<0.001				<0.001	
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0			81.5		86		
EPH CWG GCxGC ID (for FID		-	No GAC	-				0							
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0							
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0							
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0							
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Iron		mg/kg	No GAC	-	27000	62500		0							
Loss on ignition		%	No GAC	-	0.97	53		0		ndp					
Magnesium		mg/kg	No GAC	-	1710	2910		0							
Manganese		mg/kg	No GAC	-	247	750		0		295					
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0			0.215		0.203		
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Molybdenum		mg/kg	No GAC	-	<1	7		0		<1					
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0							
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0			<0.007		<0.007		
Perylene		mg/kg	No GAC	-	<0.1	83		0		0.494				0.512	
Potassium		mg/kg	No GAC	-	690	1840		0							
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0				<0.01			<0.02
Resorcinol		mg/kg	No GAC	-				0							
SVOC TICs (Tentatively Identified		-	No GAC	-				0							
Silver		mg/kg	No GAC	-	<10	<10		0							
Sulphide		mg/kg	No GAC	-	<5	610		0		610					
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0		<5					
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0				<0.02			<0.02
Tin		mg/kg	No GAC	-	<5	222		0							
Titanium		mg/kg	No GAC	-	100	470		0							
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0							
Total Aromatics		mg/kg	No GAC	-				0							
Total Aromatics		mg/kg	No GAC	-	5	47100		0		124				295	
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Trimethylphenol		mg/kg	No GAC	-				0							
VOC TICs		-	No GAC	-				0							
Xylenols & Ethylphenols		mg/kg	No GAC	-				0							
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0							

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH315	BH315	BH320	BH320	BH320	BH322
									Easting	384852.04	384852.04	384889.76	384889.76	384889.76	384715.2
									Northing	399729.3	399729.3	399761.36	399761.36	399761.36	399587.28
									Hole Elevation (mOD)	39.26	39.26	34.26	34.26	34.26	32.49
									Sample Depth (mbgl)	0.5	1.2	0.5	4.35	6	0.5
									Sample Date	03/03/22		10/03/22	15/03/22	15/03/22	21/03/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-CO	MG-CO	MG-G	MG-G	MG-G	MG-G
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0							
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0				<0.5			<0.5
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Ethers Total (from SVOC)		mg/kg	No GAC	-				0							
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0							
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0				<0.1			<0.1
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0							
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0							
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0							
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0				<0.01			<0.01

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Metal								
Antimony	3290	mg/kg	38 of 58	0	<1	131		0
Arsenic	168	mg/kg	57 of 58	1	<1	180		0
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0
Chromium	33000	mg/kg	58 of 58	0	6	57		0
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0
Copper	44400	mg/kg	58 of 58	0	5	7500		0
Lead	1300	mg/kg	58 of 58	4	4	2250		0
Manganese		mg/kg	No GAC	-	350	1400		0
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0
Nickel	804	mg/kg	58 of 58	0	4	50		0
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0
Vanadium	5000	mg/kg	58 of 58	0	5	110		0
Zinc	173000	mg/kg	58 of 58	0	12	1500		0
Inorganic								
pH		pH Units	No GAC	-	6.48	11.7		0
% Moisture at <40C		% w/w	No GAC	-				0
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0
Total Organic Carbon		%	No GAC	-	0.1	48.2		0
Sulphate (acid soluble)		mg/kg	No GAC	-				0
Asbestos								
Asbestos Matrix (microscope)		-	No GAC	-				0
Asbestos Matrix (visual)		-	No GAC	-				0
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0
Asbestos (Presence of)		---	No GAC	-				0
Asbestos Analysts Comments		---	No GAC	-				0
Phenol and mineral oils								
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0
Phenols Total (from SVOC)		mg/kg	No GAC	-				0
Phenols, Total		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Xylenols		mg/kg	No GAC	-				0
TPH								
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0
Total Aliphatics		mg/kg	No GAC	-	2	5930		0

Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Metal						
Antimony			<5		5	10
Arsenic			12		29	24
Beryllium			0.7		1.7	0.7
Cadmium			3		1.5	1.7
Chromium			29		15	40
Chromium (hexavalent)			<1		<1	<1
Copper			148		150	87
Lead			162		464	46
Manganese						
Mercury			0.51		<0.17	<0.17
Nickel			26		33	35
Selenium			<1		<1	<1
Vanadium			16		39	40
Zinc			338		262	76
Inorganic						
pH			8.1		8.56	6.48
% Moisture at <40C						
% Stones >10mm	<0.1	<0.1	<0.1	53.1	<0.1	20.4
Cyanide			2		<1	4
Complex Cyanide			2			4
Cyanide (free)			<1			
Thiocyanate			<5		<5	<5
Boron			<1		<1	<1
Total Organic Carbon	13.7	4.75	NDP	3.1	1.34	48.2
Sulphate (acid soluble)						
Asbestos						
Asbestos Matrix (microscope)			Loose Insulation			
Asbestos Matrix (visual)						
Asbestos Quantification (Total %)			0.004			
Asbestos (Presence of)						
Asbestos Analysts Comments						
Phenol and mineral oils						
Phenol					<0.1	<0.1
Phenol (Monohydric)			<0.2		<0.2	0.2
Phenols Total (from SVOC)						
Phenols, Total						
Cresols						
Xylenols						
TPH						
Ali >C10-C12			1		35	<200
Ali >C12-C16			6		618	1080
Ali >C16-C21			7		533	945
Ali >C21-C35			27		291	2710
Ali >C35-C44			30		<5	1210
Ali >C5-C6			<0.01		<0.01	<0.1
Ali >C6-C8			<0.01		<0.01	<0.1
Ali >C8-C10			<1		<5	<200
Aliphatics >C5-35						
Total Aliphatics			71		1480	5930

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
									Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
									Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
									Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
									Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
									Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0				13		13	1280
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0				91		397	5680
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0				349		363	**10900**
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0				857		74	**27800**
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0				29		<5	1110
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0				<0.01		<0.01	0.32
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0				<1		<5	395
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0		68	43		33		
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0							
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0				1420		2320	53000
TPH >C10-40		mg/kg	No GAC	-	<10	240		0							
PAH															
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0				19.9		0.09	94.1
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0				**3.56**		<0.04	**19.2**
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0				81.8		0.2	272
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0				21.9		<0.01	248
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0				13.1		0.1	65.4
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0				127		0.1	1080
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0				79.8		0.61	437
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1				27		<0.03	822
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0		48	53.3		15.4		
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0				558		2.09	4270
Pah,Total		mg/kg	No GAC	-	<0.1	620		0							
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0				1.48		<0.03	110
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0				31.4		0.11	155
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0				37		0.16	**205**
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0				11.6		0.14	74.6
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0				**22.8**		0.13	**123**
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0				**24.2**		0.19	**111**
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0				10.5		<0.07	48.8
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0				45.4		0.26	**409**
BTEX															
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0				<0.01		<0.01	0.14
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0				<0.01		<0.01	0.32
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0				<0.01		<0.01	0.11
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0				<0.01		<0.01	0.82
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0				<0.01		<0.01	2.13
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0							
BTEX and MTBE Total		mg/kg	No GAC	-				0							
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0		<0.01	<0.01		<0.01		
PCBs															
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0						<0.007	<0.07
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0						<0.005	<0.05
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0						<0.005	<0.05

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
									Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
									Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
									Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
									Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
									Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
									Investigation	326R	326R	326R	326R	326R	326R
									Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0						<0.007	<0.07
VOCs/SVOCs															
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0						<0.001	<0.001
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0						<0.001	0.036
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0						<0.001	<0.001
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	<0.001
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0						<0.003	<0.003
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	0.006
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0						<0.003	0.003
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0						<0.001	0.533
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0						<0.002	0.007
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	<0.001
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0						<0.001	<0.001
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0						<0.002	<0.002
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0						<0.001	0.222
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	<0.001
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0						<0.001	<0.001
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	<0.001
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0							
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	0.03
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0						<0.1	23.8
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0						<0.1	<0.1
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	<0.001
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0						<0.001	0.003
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0							
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0							
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0							
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0							
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0						<0.1	<0.1
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0						<0.5	<0.5
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0						<0.001	<0.001

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation						
Hole Ref									BH322	BH323	BH323	TT301	TT301	TT303
Easting									384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
Northing									399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
Hole Elevation (mOD)									32.49	30.21	30.21	42.6	42.6	41.47
Sample Depth (mbgl)									1	0.3	0.5	1.2	2.45	0.35
Sample Date									21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
Investigation									326R	326R	326R	326R	326R	326R
Geology									MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
									St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0					<0.005	<0.005
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0					<0.01	<0.01
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0					<0.1	<0.1
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0					<0.001	0.001
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0					<0.001	<0.001
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0					<0.01	<0.01
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0					<0.1	<0.1
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0					<0.5	<0.5
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0					<0.1	<0.1
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0					<0.003	<0.003
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0					<0.005	<0.005
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0					<0.1	<0.1
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0						
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0					<0.1	<0.1
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0					<0.1	<0.1
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0					<0.001	0.005
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0		<0.01			<0.01	<0.1
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0						
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0					<0.1	<0.1
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	0.02
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0					<0.001	0.125
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0					<0.002	<0.002
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0					<0.001	<0.001
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0						
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	0.023
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0					<0.1	<0.1
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0					<0.001	0.006
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0					<0.001	<0.001
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0					<0.001	<0.001
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0						
Herbicides														
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0						
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0						
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0						
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0						
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0						
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0						
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0						
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0						
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0						
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0						
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0						
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0						
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0						
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0						
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0						
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0						
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0						
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0						
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0						
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0						
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0						
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0						
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0						
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0						
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0						
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0						
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0						
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0						
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0						
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0						
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0						
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0						
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0						
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0					<0.1	<0.1
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0						
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0						
Aluminium		mg/kg	No GAC	-	7410	15900		0						
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0						
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0			<0.01		<0.01	0.14
Asbestos ACM - Suitable for Water		-	No GAC	-				0			N/A		N/A	N/A
Asbestos in soil		-	No GAC	-				0			Chrysotile		NAD	NAD

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0
Barium		mg/kg	No GAC	-	34	385		0
Calcium		mg/kg	No GAC	-	11600	59700		0
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0
Cobalt		mg/kg	No GAC	-	5	18		0
Coronene		mg/kg	No GAC	-				0
Cresols		mg/kg	No GAC	-				0
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0
EPH CWG GCxGC ID (for FID		-	No GAC	-				0
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0
Iron		mg/kg	No GAC	-	27000	62500		0
Loss on ignition		%	No GAC	-	0.97	53		0
Magnesium		mg/kg	No GAC	-	1710	2910		0
Manganese		mg/kg	No GAC	-	247	750		0
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0
Molybdenum		mg/kg	No GAC	-	<1	7		0
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0
Perylene		mg/kg	No GAC	-	<0.1	83		0
Potassium		mg/kg	No GAC	-	690	1840		0
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0
Resorcinol		mg/kg	No GAC	-				0
SVOC TICs (Tentatively Identified		-	No GAC	-				0
Silver		mg/kg	No GAC	-	<10	<10		0
Sulphide		mg/kg	No GAC	-	<5	610		0
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0
Tin		mg/kg	No GAC	-	<5	222		0
Titanium		mg/kg	No GAC	-	100	470		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0
Total Aromatics		mg/kg	No GAC	-				0
Total Aromatics		mg/kg	No GAC	-	5	47100		0
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0
Trimethylphenol		mg/kg	No GAC	-				0
VOC TICs		-	No GAC	-				0
Xylenols & Ethylphenols		mg/kg	No GAC	-				0
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0

Hole Ref	BH322	BH323	BH323	TT301	TT301	TT303
Easting	384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
Northing	399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
Hole Elevation (mOD)	32.49	30.21	30.21	42.6	42.6	41.47
Sample Depth (mbgl)	1	0.3	0.5	1.2	2.45	0.35
Sample Date	21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
Investigation	326R	326R	326R	326R	326R	326R
Geology	MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood
Asbestos in soil % composition (hand picking and weighing)			0.004			
Barium						88
Calcium						
Chloride (water sol 2:1)						<10
Cobalt					10	11
Coronene						
Cresols						
Cyanazine						
Demeton-S						
Dichlorodifluoromethane					<0.001	<0.001
Dry Matter (Dry Solids) at 40C	99.8	82.6		93		
EPH CWG GCxGC ID (for FID						
Electrical conductivity @ 20degC						
Endrin Aldehyde						
Endrin Ketone						
Ethylene glycol (Monoethylene glycol)						
Fensulphothion						
Fluoride (water sol 2:1)						
Fluroxypyr						
Iron						
Loss on ignition						53
Magnesium						
Manganese					247	582
Mass Sample (1 stage WAC)	0.175	0.212		0.188		
Methabenzthiazuron						
Molybdenum						3
Monolinuron						
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)						
PCB Total	<0.007	<0.007		<0.007		
Perylene					<0.1	83
Potassium						
Prothiofos (Tokuthion)						
Resorcinol						
SVOC TICs (Tentatively Identified						
Silver						
Sulphide						<5
Sulphur (elemental)						<5
Telodrin						
Terbutryn						
Tin						
Titanium						
Total Aliphatics and Aromatics C10-C44						
Total Aromatics						
Total Aromatics			1340		847	47100
Trichloronate						
Trimethylphenol						
VOC TICs						
Xylenols & Ethylphenols						
Aromatics >C10-44						

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Hole Ref								
Easting								
Northing								
Hole Elevation (mOD)								
Sample Depth (mbgl)								
Sample Date								
Investigation								
Geology								
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

BH322	BH323	BH323	TT301	TT301	TT303
384715.2	384658.4	384658.4	384842.09	384842.09	384850.08
399587.28	399576.88	399576.88	399747.44	399747.44	399751.87
32.49	30.21	30.21	42.6	42.6	41.47
1	0.3	0.5	1.2	2.45	0.35
21/03/22	22/03/22	22/03/22	21/02/22	21/02/22	17/02/22
326R	326R	326R	326R	326R	326R
MG-G	MG-CO	MG-G	MG-G	MG-G	MG-CO
St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	St Catherine's Wood

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TT303A	TP307
									Easting	384854.13	384457.26
									Northing	399757.01	399506.74
									Hole Elevation (mOD)	41.48	44
									Sample Depth (mbgl)	0.6	2
									Sample Date	17/02/22	23/02/22
									Investigation	326R	326R
									Geology	MG-G	MG-G
										St Catherine's Wood	RB Terrace
Metal											
Antimony	3290	mg/kg	38 of 58	0	<1	131		0			<5
Arsenic	168	mg/kg	57 of 58	1	<1	180		0			9
Beryllium	63	mg/kg	53 of 58	0	<0.2	2.6		0			1.1
Cadmium	532	mg/kg	48 of 58	0	<0.1	3.1		0			0.9
Chromium	33000	mg/kg	58 of 58	0	6	57		0			22
Chromium (hexavalent)	220	mg/kg	0 of 48	0	<1	<1		0			
Copper	44400	mg/kg	58 of 58	0	5	7500		0			30
Lead	1300	mg/kg	58 of 58	4	4	2250		0			31
Manganese		mg/kg	No GAC	-	350	1400		0			
Mercury	240	mg/kg	38 of 58	0	<0.05	24		0			<0.17
Nickel	804	mg/kg	58 of 58	0	4	50		0			28
Selenium	1850	mg/kg	8 of 58	0	<0.5	3.1		0			<1
Vanadium	5000	mg/kg	58 of 58	0	5	110		0			24
Zinc	173000	mg/kg	58 of 58	0	12	1500		0			89
Inorganic											
pH		pH Units	No GAC	-	6.48	11.7		0			7.9
% Moisture at <40C		% w/w	No GAC	-				0			
% Stones >10mm		% w/w	No GAC	-	<0.1	53.1		0		26.3	3.9
Cyanide	24	mg/kg	31 of 58	0	<0.1	8.1		0			<1
Complex Cyanide		mg/kg	No GAC	-	<0.2	4		0			
Cyanide (free)	24	mg/kg	2 of 8	0	<0.1	<1		0			
Thiocyanate		mg/kg	No GAC	-	<0.6	<5		0			
Boron	46200	mg/kg	40 of 58	0	<0.2	2.3		0			<1
Total Organic Carbon		%	No GAC	-	0.1	48.2		0		17.4	21.3
Sulphate (acid soluble)		mg/kg	No GAC	-				0			
Asbestos											
Asbestos Matrix (microscope)		-	No GAC	-				0			
Asbestos Matrix (visual)		-	No GAC	-				0			
Asbestos Quantification (Total %)		%	No GAC	-	<0.001	0.006		0			
Asbestos (Presence of)		---	No GAC	-				0			
Asbestos Analysts Comments		---	No GAC	-				0			
Phenol and mineral oils											
Phenol	1300	mg/kg	0 of 16	0	<0.1	<0.1		0			
Phenol (Monohydric)	1300	mg/kg	8 of 58	0	<0.2	12		0			<0.2
Phenols Total (from SVOC)		mg/kg	No GAC	-				0			
Phenols, Total		mg/kg	No GAC	-				0			
Cresols		mg/kg	No GAC	-				0			
Xylenols		mg/kg	No GAC	-				0			
TPH											
Ali >C10-C12	24300	mg/kg	9 of 48	0	<1	<200	283.0	0			1
Ali >C12-C16	25700	mg/kg	14 of 48	0	<1	1080	142.0	2			2
Ali >C16-C21	494000	mg/kg	16 of 48	0	<1	945		0			5
Ali >C21-C35	494000	mg/kg	20 of 48	0	2	2980		0			39
Ali >C35-C44	49400	mg/kg	11 of 28	0	<1	1210		0			12
Ali >C5-C6	181000	mg/kg	0 of 48	0	<0.01	<0.1	1150.0	0			<0.01
Ali >C6-C8	316000	mg/kg	0 of 48	0	<0.01	<0.1	736.0	0			<0.01
Ali >C8-C10	21400	mg/kg	5 of 48	0	<0.01	<200	451.0	0			2
Aliphatics >C5-35		mg/kg	No GAC	-	<10	220		0			
Total Aliphatics		mg/kg	No GAC	-	2	5930		0			62

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TT303A	TP307
									Easting	384854.13	384457.26
									Northing	399757.01	399506.74
									Hole Elevation (mOD)	41.48	44
									Sample Depth (mbgl)	0.6	2
									Sample Date	17/02/22	23/02/22
									Investigation	326R	326R
									Geology	MG-G	MG-G
										St Catherine's Wood	RB Terrace
Aro >C10-C12	10000	mg/kg	17 of 48	0	<0.9	1280		0			2
Aro >C12-C16	10400	mg/kg	22 of 48	0	<0.5	5680		0			13
Aro >C16-C21	7770	mg/kg	25 of 48	1	<0.6	10900		0			39
Aro >C21-C35	7850	mg/kg	25 of 48	1	<1	27800		0			63
Aro >C35-C44	7850	mg/kg	11 of 28	0	<1	1110		0			5
Aro >C7-C8	101000	mg/kg	1 of 48	0	<0.01	0.32	4360.0	0			<0.01
Aro >C8-C10	9290	mg/kg	9 of 48	0	<0.01	395	3580.0	0			4
Mineral Oil (>C10-C40)		mg/kg	No GAC	-	17	1720		0		1030	
TPH (Ali & Aro >C5-C35)		mg/kg	No GAC	-				0			
TPH (Ali & Aro >C5-C44)		mg/kg	No GAC	-	7	53000		0			189
TPH >C10-40		mg/kg	No GAC	-	<10	240		0			
PAH											
Acenaphthene	29900	mg/kg	28 of 50	0	<0.01	94.1		0			0.18
Dibenz-a-h-anthracene	1.36	mg/kg	20 of 50	4	<0.03	19.2		0			0.11
Fluoranthene	6350	mg/kg	37 of 50	0	<0.03	272		0			5.43
Fluorene	20100	mg/kg	24 of 50	0	<0.01	248		0			0.12
Indeno(1,2,3-cd)pyrene	183	mg/kg	33 of 50	0	<0.03	65.4		0			0.48
Phenanthrene	6270	mg/kg	38 of 50	0	<0.03	1080		0			2.41
Pyrene	15200	mg/kg	37 of 50	0	<0.03	437		0			5.48
Naphthalene	2950	mg/kg	23 of 51	0	<0.01	822	432.0	1			0.06
PAH (total 17)		mg/kg	No GAC	-	1.21	519		0		519	
Total PAH-16MS		mg/kg	No GAC	-	<0.08	4270		0			23.2
Pah,Total		mg/kg	No GAC	-	<0.1	620		0			
Acenaphthylene	29900	mg/kg	17 of 50	0	<0.01	110		0			0.01
Anthracene	152000	mg/kg	31 of 50	0	<0.02	155		0			0.6
Benzo(a)anthracene	62.5	mg/kg	36 of 50	1	<0.03	205		0			1.94
Benzo (g,h,i) perylene	1570	mg/kg	33 of 50	0	<0.03	74.6		0			0.43
Benzo(a)pyrene	13.2	mg/kg	35 of 50	4	<0.03	123		0			1.28
Benzo(b)fluoranthene	16.3	mg/kg	34 of 50	3	<0.03	111		0			1.61
Benzo(k)fluoranthene	442	mg/kg	31 of 50	0	<0.03	48.8		0			0.61
Chrysene	121	mg/kg	35 of 50	1	<0.03	409		0			2.45
BTEX											
BTEX - Benzene	113	mg/kg	3 of 58	0	<0.001	0.14		0			<0.01
BTEX - Toluene	101000	mg/kg	1 of 58	0	<0.001	0.32	4360.0	0			<0.01
BTEX - Ethyl Benzene	27100	mg/kg	3 of 58	0	<0.001	0.22	2840.0	0			<0.01
BTEX - m & p Xylene	31500	mg/kg	1 of 23	0	<0.001	0.82	3170.0	0			<0.01
BTEX - o Xylene	32600	mg/kg	1 of 23	0	<0.001	2.13	2620.0	0			<0.01
Xylene	31500	mg/kg	1 of 39	0	<0.01	0.57	3170.0	0			
BTEX and MTBE Total		mg/kg	No GAC	-				0			
BTEX (total)		mg/kg	No GAC	-	<0.01	<0.04		0		<0.01	
PCBs											
PCB BZ 105	0.000074	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 114	0.000004	mg/kg	1 of 10	1	<0.005	<0.05		0			<0.005
PCB BZ 118	0.000171	mg/kg	0 of 10	0	<0.007	<0.07		0			<0.007
PCB BZ 123	0.000006	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 126	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 156	0.000032	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 157	0.000008	mg/kg	2 of 10	2	<0.005	<0.05		0			<0.005
PCB BZ 167	0.000013	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 169	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 189	0.000005	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005
PCB BZ 77	0.000016	mg/kg	1 of 10	1	<0.005	<0.05		0			<0.005
PCB BZ 81	0.000001	mg/kg	0 of 10	0	<0.005	<0.05		0			<0.005

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TT303A	TP307
									Easting	384854.13	384457.26
									Northing	399757.01	399506.74
									Hole Elevation (mOD)	41.48	44
									Sample Depth (mbgl)	0.6	2
									Sample Date	17/02/22	23/02/22
									Investigation	326R	326R
									Geology	MG-G	MG-G
										St Catherine's Wood	RB Terrace
Total Speciated PCB-WHO12		mg/kg	No GAC	-	<0.007	0.093		0			<0.007
VOCs/SVOCs											
1,1,1,2-Tetrachloroethane	2070	mg/kg	0 of 17	0	<0.001	<0.1		0			
1,1,1-Trichloroethane	101000	mg/kg	0 of 17	0	<0.001	<0.1	6390.0	0			
1,1,2,2-Tetrachloroethane	2290	mg/kg	1 of 10	0	<0.001	0.036		0			
1,1,2-Trichloroethane	1480	mg/kg	0 of 17	0	<0.001	<0.1		0			
1,1-Dichloroethane	31200	mg/kg	0 of 17	0	<0.001	<0.1	5600.0	0			
1,1-Dichloroethene	5860	mg/kg	0 of 17	0	<0.001	<0.1		0			
1,1-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0			
1,2,3 Trichlorobenzene	1570	mg/kg	0 of 17	0	<0.003	<0.1		0			
1,2,3-Trichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			
1,2,4-Trichlorobenzene	3980	mg/kg	1 of 17	0	<0.003	<0.1	1880.0	0			
1,2,4-Trimethylbenzene	408	mg/kg	1 of 17	0	<0.001	0.533		0			
1,2-Dibromo-3-Chloropropane		mg/kg	No GAC	-	<0.002	<0.1		0			
1,2-Dibromoethane		mg/kg	No GAC	-	<0.001	<0.1		0			
1,2-Dichlorobenzene	50500	mg/kg	0 of 17	0	<0.001	<0.1	3240.0	0			
1,2-Dichloroethane	27.8	mg/kg	0 of 17	0	<0.002	<0.1		0			
1,2-Dichloropropane	292	mg/kg	0 of 17	0	<0.001	<0.1		0			
1,3,5-Trimethylbenzene		mg/kg	No GAC	-	<0.001	0.222		0			
1,3-Dichlorobenzene	392	mg/kg	0 of 17	0	<0.001	<0.1		0			
1,3-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			
1,4-Dichlorobenzene	36000	mg/kg	0 of 17	0	<0.001	<0.1	1280.0	0			
2,2-Dichloropropane		mg/kg	No GAC	-	<0.001	<0.1		0			
2,3,4,6-Tetrachlorophenol	1050	mg/kg	0 of 6	0	<0.1	<0.1		0			
2,4,5-Trichlorophenol	1100	mg/kg	0 of 16	0	<0.1	<0.1		0			
2,4,6-Trichlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			
2,4-Dichlorophenol	1040	mg/kg	0 of 16	0	<0.1	<0.1		0			
2,4-Dimethylphenol	9880	mg/kg	0 of 16	0	<0.1	<0.1		0			
2,4-Dinitrotoluene	990	mg/kg	0 of 16	0	<0.1	<0.1		0			
2,6-Dinitrotoluene	498	mg/kg	0 of 16	0	<0.1	<0.1		0			
2-Chloronaphthalene	2750	mg/kg	0 of 16	0	<0.1	<0.1		0			
2-Chlorophenol	1060	mg/kg	0 of 16	0	<0.1	<0.1		0			
2-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			
2-Methyl-4,6-Dinitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			
2-Methylnaphthalene		mg/kg	No GAC	-	<0.1	23.8		0			
2-Methylphenol	49400	mg/kg	0 of 16	0	<0.1	<0.1		0			
2-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			
2-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			
3-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			
4-Bromophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0			
4-Chloro-3-Methylphenol		mg/kg	No GAC	-	<0.1	<0.1		0			
4-Chlorotoluene		mg/kg	No GAC	-	<0.001	<0.1		0			
4-Isopropyltoluene		mg/kg	No GAC	-	<0.001	<0.1		0			
4-Nitroaniline		mg/kg	No GAC	-	<0.1	<0.1		0			
4-Nitrophenol		mg/kg	No GAC	-	<0.1	<0.1		0			
Aniline		mg/kg	No GAC	-	<0.1	<0.1		0			
Azobenzene		mg/kg	No GAC	-	<0.1	<0.1		0			
Benzyl Alcohol		mg/kg	No GAC	-	<0.1	<0.1		0			
Bis(2-chloroethoxy)methane		mg/kg	No GAC	-	<0.1	<0.1		0			
Bis(2-chloroethyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			
Bis(2-chloroisopropyl)ether		mg/kg	No GAC	-	<0.1	<0.1		0			
Bis(2-ethylhexyl)phthalate	16800	mg/kg	1 of 16	0	<0.1	7.85		0			
Bromobenzene	3460	mg/kg	0 of 17	0	<0.001	<0.1		0			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TT303A	TP307
Easting	384854.13	384457.26
Northing	399757.01	399506.74
Hole Elevation (mOD)	41.48	44
Sample Depth (mbgl)	0.6	2
Sample Date	17/02/22	23/02/22
Investigation	326R	326R
Geology	MG-G	MG-G
	St Catherine's Wood	RB Terrace

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Bromochloromethane		mg/kg	No GAC	-	<0.005	<0.1		0
Bromodichloromethane	80.9	mg/kg	0 of 17	0	<0.01	<0.1		0
Bromoform	5220	mg/kg	0 of 17	0	<0.001	<0.1		0
Bromomethane		mg/kg	No GAC	-	<0.001	<0.001		0
Butylbenzyl phthalate	259000	mg/kg	0 of 16	0	<0.1	<0.1		0
Carbazole		mg/kg	No GAC	-	<0.1	1.95		0
Carbon Disulphide	2700	mg/kg	1 of 10	0	<0.001	<0.001		0
Carbon Tetrachloride	396	mg/kg	0 of 17	0	<0.001	<0.1		0
Chlorobenzene	2900	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroethane	217000	mg/kg	0 of 10	0	<0.001	<0.001	5710.0	0
Chloroethene	5.36	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloroform	3090	mg/kg	0 of 17	0	<0.001	<0.1		0
Chloromethane	173	mg/kg	0 of 10	0	<0.01	<0.01		0
Di-N-Butyl Phthalate	2630	mg/kg	1 of 16	0	<0.1	0.345		0
Di-N-Octyl Phthalate	20000	mg/kg	0 of 16	0	<0.1	<0.5		0
Dibenzofuran		mg/kg	No GAC	-	<0.1	3.24		0
Dibromochloromethane		mg/kg	No GAC	-	<0.003	<0.1		0
Dibromomethane		mg/kg	No GAC	-	<0.001	<0.1		0
Dichloromethane	1530	mg/kg	0 of 10	0	<0.005	<0.005		0
Diethyl phthalate	96000	mg/kg	0 of 16	0	<0.1	<0.1		0
Dimethyl phthalate		mg/kg	No GAC	-	<0.1	<0.1		0
Diphenylamine		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachlorobenzene	29.7	mg/kg	0 of 19	0	<0.01	<0.1		0
Hexachlorobutadiene	50.8	mg/kg	0 of 17	0	<0.001	<0.1		0
Hexachlorocyclopentadiene		mg/kg	No GAC	-	<0.1	<0.1		0
Hexachloroethane	206	mg/kg	0 of 10	0	<0.1	<0.1	48.10	0
Isophorone		mg/kg	No GAC	-	<0.1	<0.1		0
Isopropylbenzene	33800	mg/kg	1 of 17	0	<0.001	<0.1	2250.0	0
M-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
MTBE	117000	mg/kg	0 of 22	0	<0.01	<0.1	62700.0	0
Nitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
O-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
P-Dinitrobenzene		mg/kg	No GAC	-	<0.1	<0.1		0
PCP; (Pentachlorophenol)	117	mg/kg	0 of 19	0	<0.1	<0.1		0
Sec-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
Styrene	6120	mg/kg	1 of 17	0	<0.001	0.125	3350.0	0
Tert-Butylbenzene		mg/kg	No GAC	-	<0.002	<0.1		0
Tetrachloroethene	1460	mg/kg	1 of 17	0	<0.001	<0.1		0
Trichloroethene	115	mg/kg	0 of 17	0	<0.001	<0.1		0
Trichlorofluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0
cis 1,2-Dichloroethene	1040	mg/kg	0 of 17	0	<0.001	<0.1		0
cis 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.001		0
cis1,3-Dichloropropene		mg/kg	No GAC	-	<0.01	<0.1		0
n-Butylbenzene		mg/kg	No GAC	-	<0.001	<0.1		0
n-Nitroso-n-dipropylamine		mg/kg	No GAC	-	<0.1	<0.1		0
n-Propylbenzene	43900	mg/kg	1 of 17	0	<0.001	<0.1	2330.0	0
trans 1,2-Dichloroethene	2710	mg/kg	0 of 17	0	<0.001	<0.1		0
trans 1,3-Dichloropropene		mg/kg	No GAC	-	<0.001	<0.1		0
VOC Total (excl. BTEX)		mg/kg	No GAC	-				0
Herbicides								
2,3,6-TBA		mg/kg	No GAC	-	<0.1	<0.1		0
2,4,5-TP; (Fenoprop); (Silvex)		mg/kg	No GAC	-	<0.1	<0.1		0
2,4-D		mg/kg	No GAC	-	<0.1	<0.1		0

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TT303A	TP307
Easting	384854.13	384457.26
Northing	399757.01	399506.74
Hole Elevation (mOD)	41.48	44
Sample Depth (mbgl)	0.6	2
Sample Date	17/02/22	23/02/22
Investigation	326R	326R
Geology	MG-G	MG-G
	St Catherine's Wood	RB Terrace

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
2,4-DB		mg/kg	No GAC	-	<0.1	<0.1		0
4-CPA		mg/kg	No GAC	-	<0.1	<0.1		0
Ametryne		mg/kg	No GAC	-	<0.2	<0.2		0
Atraton		mg/kg	No GAC	-	<0.1	<0.1		0
Atrazine	2300	mg/kg	0 of 4	0	<0.01	<0.01		0
Benazolin		mg/kg	No GAC	-	<0.1	<0.1		0
Bentazone		mg/kg	No GAC	-	<0.1	<0.1		0
Bromacil		mg/kg	No GAC	-	<0.1	<0.1		0
Bromoxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Carbetamide		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorbufam		mg/kg	No GAC	-	<0.1	<0.1		0
Chlorpropham		mg/kg	No GAC	-	<0.1	<0.1		0
Chlortoluron		mg/kg	No GAC	-	<0.1	<0.1		0
Clopyralid		mg/kg	No GAC	-	<0.1	<0.1		0
Cyfluthrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cyhalothrin		mg/kg	No GAC	-	<0.1	<0.1		0
Cypermethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Deltamethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Dicamba		mg/kg	No GAC	-	<0.1	<0.1		0
Diclofop		mg/kg	No GAC	-	<0.1	<0.1		0
Diuron		mg/kg	No GAC	-	<0.1	<0.1		0
Fenvalerate		mg/kg	No GAC	-	<0.1	<0.5		0
Flamprop		mg/kg	No GAC	-	<0.1	<0.1		0
Flamprop-isopropyl		mg/kg	No GAC	-	<0.1	<0.1		0
Ioxynil		mg/kg	No GAC	-	<0.1	<0.1		0
Isoproturon		mg/kg	No GAC	-	<0.1	<0.1		0
Linuron		mg/kg	No GAC	-	<0.1	<0.1		0
MCPA		mg/kg	No GAC	-	<0.1	<0.1		0
MCPB		mg/kg	No GAC	-	<0.1	<0.1		0
MCPP; (Mecoprop)		mg/kg	No GAC	-	<0.1	<0.1		0
Monuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin		mg/kg	No GAC	-	<0.1	<0.1		0
Picloram		mg/kg	No GAC	-	<0.1	<0.1		0
Pirimicarb		mg/kg	No GAC	-	<0.1	<0.1		0
Prometon		mg/kg	No GAC	-	<0.1	<0.1		0
Prometryn		mg/kg	No GAC	-	<0.02	<0.02		0
Propazine		mg/kg	No GAC	-	<0.02	<0.02		0
Propham		mg/kg	No GAC	-	<0.1	<0.1		0
Simazine		mg/kg	No GAC	-	<0.01	<0.01		0
Simetryn		mg/kg	No GAC	-	<0.1	<0.1		0
Terbuthylazine		mg/kg	No GAC	-	<0.02	<0.02		0
Triclopyr		mg/kg	No GAC	-	<0.1	<0.1		0
Pesticides								
Aldrin	7.9	mg/kg	0 of 4	0	<0.01	<0.01		0
Azinphos-ethyl		mg/kg	No GAC	-	<0.01	<0.01		0
Azinphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Carbophenothion		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorfenvinphos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorothalonil		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos		mg/kg	No GAC	-	<0.01	<0.01		0
Chlorpyrifos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0
Coumaphos		mg/kg	No GAC	-	<0.01	<0.01		0
Diazinon (Dimpylate)		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref: TT303A	Hole Ref: TP307
									Easting: 384854.13	Easting: 384457.26
									Northing: 399757.01	Northing: 399506.74
									Hole Elevation (mOD): 41.48	Hole Elevation (mOD): 44
									Sample Depth (mbgl): 0.6	Sample Depth (mbgl): 2
									Sample Date: 17/02/22	Sample Date: 23/02/22
									Investigation: 326R	Investigation: 326R
									Geology: MG-G	Geology: MG-G
									St Catherine's Wood	RB Terrace
Dichlobenil		mg/kg	No GAC	-	<0.01	<0.01		0		
Dichlorvos	27	mg/kg	0 of 4	0	<0.01	<0.03		0		
Dieldrin	13	mg/kg	0 of 4	0	<0.01	<0.01		0		
Dimethoate		mg/kg	No GAC	-	<0.01	<0.01		0		
Disulfoton		mg/kg	No GAC	-	<0.1	<0.1		0		
Endosulphan I (Alpha)	2450	mg/kg	0 of 4	0	<0.01	<0.01		0		
Endosulphan II (Beta)	2460	mg/kg	0 of 4	0	<0.01	<0.01		0		
Endosulphan Sulphate		mg/kg	No GAC	-	<0.01	<0.01		0		
Endrin		mg/kg	No GAC	-	<0.01	<0.01		0		
Ethion		mg/kg	No GAC	-	<0.01	<0.01		0		
Fenitrothion		mg/kg	No GAC	-	<0.01	<0.01		0		
Fenthion		mg/kg	No GAC	-	<0.01	<0.01		0		
Heptachlor		mg/kg	No GAC	-	<0.01	<0.01		0		
Heptachlor epoxide		mg/kg	No GAC	-	<0.01	<0.01		0		
Isodrin		mg/kg	No GAC	-	<0.01	<0.01		0		
Malathion		mg/kg	No GAC	-	<0.01	<0.01		0		
Methyl Parathion		mg/kg	No GAC	-	<0.01	<0.01		0		
Mevinphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Parathion (Ethyl Parathion)		mg/kg	No GAC	-	<0.01	<0.01		0		
Pendimethalin		mg/kg	No GAC	-	<0.01	<0.01		0		
Permethrin II (trans)		mg/kg	No GAC	-	<0.01	<0.01		0		
Phorate		mg/kg	No GAC	-	<0.01	<0.01		0		
Phosalone		mg/kg	No GAC	-	<0.01	<0.01		0		
Pirimiphos-methyl		mg/kg	No GAC	-	<0.01	<0.01		0		
Propetamphos		mg/kg	No GAC	-	<0.01	<0.01		0		
Quintozene (PCNB)		mg/kg	No GAC	-	<0.01	<0.01		0		
Tecnazene		mg/kg	No GAC	-	<0.01	<0.01		0		
Triadimefon		mg/kg	No GAC	-	<0.01	<0.01		0		
Triallate		mg/kg	No GAC	-	<0.01	<0.01		0		
Triazophos		mg/kg	No GAC	-	<0.01	<0.01		0		
Trifluralin		mg/kg	No GAC	-	<0.01	<0.01		0		
alpha-Hexachlorocyclohexane (HCH)	48	mg/kg	0 of 4	0	<0.01	<0.01		0		
beta-Hexachlorocyclohexane (HCH)	15	mg/kg	0 of 4	0	<0.01	<0.01		0		
cis-Chlordane (Alpha)		mg/kg	No GAC	-	<0.01	<0.01		0		
delta-Hexachlorocyclohexane (HCH)		mg/kg	No GAC	-	<0.01	<0.01		0		
o,p-DDD (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
o,p-DDE (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
o,p-DDT (2,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
o,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0		
p,p-DDE (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
p,p-DDT (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0		
trans-Chlordane (Gamma)		mg/kg	No GAC	-	<0.01	<0.01		0		
2,3,5,6-Tetrachlorophenol		mg/kg	No GAC	-	<0.1	<0.1		0		
2,4,5-T		mg/kg	No GAC	-	<0.1	<0.1		0		
2,4-DP; (Dichlorprop)		mg/kg	No GAC	-	<0.1	<0.1		0		
3+4-Methylphenol		mg/kg	No GAC	-	<0.1	0.117		0		
4-Chlorophenyl Phenyl Ether		mg/kg	No GAC	-	<0.1	<0.1		0		
Aliphatics >C10-44		mg/kg	No GAC	-	<10	58		0		
Aluminium		mg/kg	No GAC	-	7410	15900		0	7410	
Ammoniacal Nitrogen as N		mg/kg	No GAC	-	1.9	2.6		0		
Aro >C5-C7		mg/kg	No GAC	-	<0.01	0.14		0	<0.01	
Asbestos ACM - Suitable for Water		-	No GAC	-				0	N/A	
Asbestos in soil		-	No GAC	-				0	NAD	

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation	Hole Ref	TT303A	TP307
									Easting	384854.13	384457.26
									Northing	399757.01	399506.74
									Hole Elevation (mOD)	41.48	44
									Sample Depth (mbgl)	0.6	2
									Sample Date	17/02/22	23/02/22
									Investigation	326R	326R
									Geology	MG-G	MG-G
										St Catherine's Wood	RB Terrace
Asbestos in soil % composition (hand picking and weighing)		% w/w	No GAC	-	<0.001	0.006		0			
Barium		mg/kg	No GAC	-	34	385		0			132
Calcium		mg/kg	No GAC	-	11600	59700		0			11600
Chloride (water sol 2:1)		mg/kg	No GAC	-	<10	90		0			<10
Cobalt		mg/kg	No GAC	-	5	18		0			12
Coronene		mg/kg	No GAC	-				0			
Cresols		mg/kg	No GAC	-				0			
Cyanazine		mg/kg	No GAC	-	<0.02	<0.02		0			
Demeton-S		mg/kg	No GAC	-	<0.5	<0.5		0			
Dichlorodifluoromethane		mg/kg	No GAC	-	<0.001	<0.001		0			
Dry Matter (Dry Solids) at 40C		% w/w	No GAC	-	74.5	99.8		0		83.6	
EPH CWG GCxGC ID (for FID		-	No GAC	-				0			
Electrical conductivity @ 20degC		uS/cm	No GAC	-				0			
Endrin Aldehyde		mg/kg	No GAC	-	<0.01	<0.01		0			
Endrin Ketone		mg/kg	No GAC	-	<0.01	<0.01		0			
Ethylene glycol (Monoethylene glycol)		mg/kg	No GAC	-				0			
Fensulphothion		mg/kg	No GAC	-	<0.01	<0.01		0			
Fluoride (water sol 2:1)		mg/kg	No GAC	-				0			
Fluroxypyr		mg/kg	No GAC	-	<0.1	<0.1		0			
Iron		mg/kg	No GAC	-	27000	62500		0			62500
Loss on ignition		%	No GAC	-	0.97	53		0			27
Magnesium		mg/kg	No GAC	-	1710	2910		0			1710
Manganese		mg/kg	No GAC	-	247	750		0			750
Mass Sample (1 stage WAC)		kg	No GAC	-	0.175	0.235		0		0.209	
Methabenzthiazuron		mg/kg	No GAC	-	<0.1	<0.1		0			
Molybdenum		mg/kg	No GAC	-	<1	7		0			<1
Monolinuron		mg/kg	No GAC	-	<0.1	<0.1		0			
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)		mg/kg	No GAC	-				0			
PCB Total		mg/kg	No GAC	-	<0.007	<0.01		0		<0.007	
Perylene		mg/kg	No GAC	-	<0.1	83		0			
Potassium		mg/kg	No GAC	-	690	1840		0			690
Prothiofos (Tokuthion)		mg/kg	No GAC	-	<0.01	<0.02		0			
Resorcinol		mg/kg	No GAC	-				0			
SVOC TICs (Tentatively Identified		-	No GAC	-				0			
Silver		mg/kg	No GAC	-	<10	<10		0			<10
Sulphide		mg/kg	No GAC	-	<5	610		0			30
Sulphur (elemental)		mg/kg	No GAC	-	<5	38		0			17
Telodrin		mg/kg	No GAC	-	<0.01	<0.01		0			
Terbutryn		mg/kg	No GAC	-	<0.02	<0.02		0			
Tin		mg/kg	No GAC	-	<5	222		0			<5
Titanium		mg/kg	No GAC	-	100	470		0			170
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	<10		0			
Total Aromatics		mg/kg	No GAC	-				0			
Total Aromatics		mg/kg	No GAC	-	5	47100		0			127
Trichloronate		mg/kg	No GAC	-	<0.01	<0.01		0			
Trimethylphenol		mg/kg	No GAC	-				0			
VOC TICs		-	No GAC	-				0			
Xylenols & Ethylphenols		mg/kg	No GAC	-				0			
Aromatics >C10-44		mg/kg	No GAC	-	<10	930		0			

Concentration exceeds GAC	100.00
Limit of Detection value exceeds GAC	<0.1
Concentration exceeds saturation value but not GAC	50

ARUP

Hole Ref	TT303A	TP307
Easting	384854.13	384457.26
Northing	399757.01	399506.74
Hole Elevation (mOD)	41.48	44
Sample Depth (mbgl)	0.6	2
Sample Date	17/02/22	23/02/22
Investigation	326R	326R
Geology	MG-G	MG-G
	St Catherine's Wood	RB Terrace

Contaminant Name	GAC	Units	Total > LOD	Total > GAC	Min	Max	Saturation Value	Total > Saturation
Chloroxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Cresol & Chlorinated Phenol Total		mg/kg	No GAC	-				0
Demeton-O		mg/kg	No GAC	-	<0.5	<0.5		0
Diflubenzuron		mg/kg	No GAC	-	<0.1	<0.1		0
Dimefuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ethers Total (from SVOC)		mg/kg	No GAC	-				0
Ethiofencarb		mg/kg	No GAC	-	<0.1	<0.1		0
Metoxuron		mg/kg	No GAC	-	<0.1	<0.1		0
Ortho Phosphate as P		mg/kg	No GAC	-	0.14	42		0
Pencycuron		mg/kg	No GAC	-	<0.1	<0.1		0
Permethrin I (cis)		mg/kg	No GAC	-	<0.01	<0.01		0
Phenmedipham		mg/kg	No GAC	-	<0.1	<0.1		0
Total Aliphatics and Aromatics C10-C44		mg/kg	No GAC	-	<10	980		0
Total Aliphatics and Aromatics C5-C35		mg/kg	No GAC	-	<10	520		0
Total Aromatics C5-C35		mg/kg	No GAC	-	<10	380		0
p,p-DDD (4,4)		mg/kg	No GAC	-	<0.01	<0.01		0
p,p-Methoxychlor		mg/kg	No GAC	-	<0.01	<0.01		0

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH102	BH102	BH103	BH103	BH103
									Easting	384763.18	384763.18	384689.014	384689.014	384689.014
									Northing	399691.375	399691.375	399695.588	399695.588	399695.588
									Hole Elevation (mOD)	42.934	42.934	42.57	42.57	42.57
									Sample Depth (mbgl)	3.1	3.4	0.9	3.45	3.59
									Piezometer top (mbgl)	1.9	1.9	1	1	1
									Piezometer base (mbgl)	6.7	6.7	3.5	3.5	3.5
									Sample Date	26/05/22	04/07/22	24/01/19	26/05/22	04/07/22
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI
									Response zone	MG/glacial till	MG/glacial till	Made ground	Made ground	Made ground
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.001	<0.001	**0.010497**	<0.001	<0.001
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.016	0.008	0.002782	<0.001	0.006
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.001	<0.001	0.000142	<0.001	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		<0.0002	<0.0002	0.000098	<0.0002	**0.0006**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		536	420	110	992	556
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		0.003	<0.001	**0.007823**	<0.001	<0.001
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		0.01	<0.004	0.003015	<0.001	<0.004
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		**0.149**	0.007	0.001893	<0.001	<0.001
Magnesium		-	mg/l	No GAC	-		53	50.0						
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**3.61**	**2.29**	**2.7502**	**13.2**	**15**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.0001	<0.0001	<0.00001	<0.0001	<0.0001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		**0.017**	0.011	0.006447	**0.025**	**0.04**
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10						
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		<0.001	<0.001	0.005043	<0.001	<0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80						
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		0.007	<0.001	0.003487	<0.001	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		**0.055**	0.028	0.013066	0.023	0.03
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.09	6.99	7.4	7.14	7.1
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		**0.005**	<0.005	<0.04	**0.056**	**0.017**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515			<0.005			0.017
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827			<0.005			<0.005
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52			0.3			<0.1
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		77	92	29	23	22
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		**1.9**	**2.2**	**3.8**	**3.08**	**1.89**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		15.5	18.7	17	10.3	9.6
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		1509	1232		2644	1531
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80				359		
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30						
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5						
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80						
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540						
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0						
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01			<0.001		<0.001	<0.001
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.01	<0.01	<0.1	<0.01	<0.01
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		**38**	**0.76**	<0.001	<0.005	<0.005
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		**81.8**	**1.867**	<0.001	<0.005	<0.005
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		54	1.187	<0.001	<0.005	<0.005

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	56.9	1.081	<0.001	<0.005	<0.005
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	2.01	0.056		<0.005	<0.005
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.001	0.011	<0.0001	<0.001	<0.001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	**21.4**	**0.406**	<0.0001	<0.005	<0.005
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05			<0.01		
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690	254	5.37		<0.005	<0.005
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	**21.3**	**0.979**	<0.001	<0.005	<0.005
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	**48.1**	**1.677**	<0.001	<0.005	0.012
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	**29**	**0.841**	<0.001	<0.005	0.014
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	**12.4**	**0.27**	<0.001	<0.01	<0.01
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.005	<0.005		<0.005	<0.005
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	**9**	0.251	<0.0001	<0.005	<0.005
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935					
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	120	4.02		<0.01	0.026
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006	374	9.39		<0.01	0.026
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095					
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1			<0.01		
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01			<0.01		
PAH													
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.00181	0.00283	0.000409	0.00001	<0.00001
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	0.00008	0.00013	<0.00001	<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00126**	**0.00352**	**0.000058**	**0.00004**	**0.00002**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	0.00307	0.00566	0.000184	0.00008	0.00003
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	0.00026	0.0005	<0.00001	0.00001	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	0.00123	0.00347	0.000167	<0.00001	<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.0021	0.00516	0.000055	0.00003	0.00002
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	0.00091	0.00132	0.000808	<0.00001	<0.00001
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.0162	0.0364		0.00022	0.00008
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172			0.001863		
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	0.00029	0.00134	0.000011	<0.00001	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	**0.00141**	**0.00389**	**0.000111**	0.00002	0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00113	0.00322	0.000014	<0.00001	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	0.00026	0.00046	<0.00001	0.00001	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	**0.00038**	**0.00086**	<0.00001	**0.00001**	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	0.00053	0.00113	<0.00001	0.00001	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	0.00018	0.00036	<0.00001	<0.00001	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	0.00126	0.00257	0.000047	<0.00001	<0.00001
BTEX													
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002	0.001	0.003		<0.001	<0.001
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001	<0.001	<0.001		<0.001	<0.001
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001			<0.001		
VOC													
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003		<0.003		<0.003	<0.003
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003		<0.003		<0.003	<0.003
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014		0.002		<0.001	<0.001
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002		<0.002		<0.002	<0.002
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.002		<0.002	<0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.001		<0.001	<0.001
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.001		<0.001	<0.001
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005			<0.005		<0.005	<0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01			<0.01		<0.01	<0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01			<0.01		<0.01	<0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003			<0.003		<0.003	<0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016			<0.005		<0.005	<0.005
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026			0.005		<0.001	<0.001
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001		<0.001	<0.001		<0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022			0.004		<0.001	<0.001
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.002		<0.002	<0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024			<0.001		<0.001	<0.001
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			0.001		<0.001	<0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018			0.003		<0.001	<0.001
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
SVOC														
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01			<0.01		<0.01	<0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		<0.001	<0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022			<0.001		0.004	<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01			<0.01	<0.01	<0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001		<0.0001	<0.001	<0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001		<0.00002	<0.001	<0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Herbicides													
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005		<0.00005			
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002		<0.00002			
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005		<0.00005			
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005		<0.00005			
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005		<0.00005			
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005		<0.00005			
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Pesticides													
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		<0.0001			

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005					<0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005					<0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005					<0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001					<0.0001
Other													
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001					
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001					
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001					
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001					
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001					
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001					
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001					
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0					
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921					

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001					
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001					
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001					
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001					
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455					
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	<0.0005				
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005				
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001					
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0					
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002	<0.00002				
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0					
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448					
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001					
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001					
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001					
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001					
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001					
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001					
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002				
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162					
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001					
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001					
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	<0.0005				
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005				
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001				
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001					

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH105	BH105	BH105	BH201	BH202
									Easting	384463.735	384463.735	384463.735	384762.04	384723.888
									Northing	399571.588	399571.588	399571.588	399820.851	399716.141
									Hole Elevation (mOD)	40.666	40.666	40.666	43.4	42.663
									Sample Depth (mbgl)	4.52	4.93	5.1	7.6	4.19
									Piezometer top (mbgl)	3	3	3	3	4
									Piezometer base (mbgl)	9.5	9.5	9.5	8	9
									Sample Date	24/01/19	27/05/22	04/07/22	04/07/22	26/05/2021
									Investigation	VN - Phase 1 GI	VN - Phase 1 GI	VN - Phase 1 GI	NW1604	NW1604
									Response zone	Glacial till	Glacial till	Glacial till	Collyhurst Sandstone	Glacial till
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		**0.008356**	<0.001	<0.001	<0.001	0.00091
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.000566	0.011	0.005	0.014	0.0031
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	0.004	0.002	0.004	<0.0001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		0.000126	**0.0035**	**0.0012**	**0.0205**	<0.00003
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		120	208	190	680	44
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		<0.00025	**0.022**	**0.013**	**0.006**	0.0011
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		0.002675	**0.104**	**0.05**	0.02	0.0074
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						**5.9**
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		0.000204	**0.063**	**0.041**	**0.039**	0.0014
Magnesium		-	mg/l	No GAC	-		53	50.0						23
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**0.82475**	**6.91**	**2.45**	**8.38**	0.011
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001	<0.0001	<0.0001	<0.0001	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.003437	**0.053**	**0.028**	**0.043**	0.0018
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10						7.2
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		0.00119	**0.018**	0.003	0.004	0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80						
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		0.001072	**0.03**	0.015	0.011	0.0024
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		0.019094	**0.446**	**0.183**	**1.443**	**0.16**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.3	7.28	7.12	7.41	7.4
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.005	<0.005	**0.005**	<0.04
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515					0.005	
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827					**0.005**	
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52					0.1	
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		29	15	19	1	8
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		**1.3**	0.21	0.22	0.02	0.17
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		2.5	5.5	5.3	2	5.2
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0			657	580	2113	123
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80		369				
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30						
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5						
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80			198			
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540						
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0						
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01						
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.01	<0.01		<0.1
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.001	<0.005	<0.005	<0.005	<0.001
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.001	<0.005	<0.005	<0.005	<0.001
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		<0.001	<0.005	<0.005	<0.005	<0.001

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.001	0.026	<0.005	<0.005	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.005	<0.005	<0.005	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.0001	<0.005	<0.005	<0.005	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05	<0.01				
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690		0.026	<0.005	<0.005	
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.001	<0.005	<0.005	<0.005	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	<0.001	<0.005	<0.005	<0.005	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	<0.001	<0.005	<0.005	<0.005	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.001	<0.01	<0.01	<0.01	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.005	<0.005	<0.005	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	<0.0001	<0.005	<0.005	<0.005	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935					
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604		<0.01	<0.01	<0.01	
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006		0.026	<0.01	<0.01	
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095					
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1	<0.01				
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01	<0.01				
PAH													
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	<0.00005	<0.00001	<0.00001	<0.00001	<0.00005
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948		<0.00001	<0.00001	<0.00001	<0.0002
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172	<0.0002				
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
BTEX													
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002		<0.001	<0.001	<0.001	
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001		<0.001	<0.001	<0.001	
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001	<0.001				<0.001
VOC													
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014					
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002					
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

<0.001 <0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01	
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001	
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001	<0.0001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001	<0.00002
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Herbicides									
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Pesticides									
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005	<0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005	<0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005	<0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	<0.0001
Other									
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001	
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001	
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0	
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921	

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001	
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455	
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	<0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	<0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0	
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002	<0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0	
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448	
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001	
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001	
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	<0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162	
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	<0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	<0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	<0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001	

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH202	BH202	BH202	BH202	BH203
									Easting	384723.888	384723.888	384723.888	384723.888	384845.747
									Northing	399716.141	399716.141	399716.141	399716.141	399748.863
									Hole Elevation (mOD)	42.663	42.663	42.663	42.663	41.891
									Sample Depth (mbgl)	4.19	4.19	7.9	8.7	12.4
									Piezometer top (mbgl)	4	4	4	4	18
									Piezometer base (mbgl)	9	9	9	9	24
									Sample Date	11/08/2021	11/08/21	26/05/22	04/07/22	05/07/22
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604
									Response zone	Glacial till	Glacial till	Glacial till	Glacial till	Collyhurst
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	St Catherine's Wood
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		<0.00017	<0.00017	<0.001	<0.001	<0.001
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.002689	0.002689	**0.066**	0.031	0.003
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	<0.0001	<0.001	0.004	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		<0.00003	<0.00003	**0.0003**	**0.0127**	**0.0003**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		100	100	717	470	95
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		<0.00025	<0.00025	<0.001	**0.005**	<0.001
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		<0.0004	<0.0004	<0.001	0.025	0.007
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		<0.00009	<0.00009	<0.001	**0.069**	0.004
Magnesium		-	mg/l	No GAC	-		53	50.0						
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**1.248446**	**1.248446**	**16.1**	**9.64**	**0.809**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001	<0.00001	<0.0001	<0.0001	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.002072	0.002072	**0.088**	**0.056**	**0.02**
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10						
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		<0.00025	<0.00025	<0.001	0.004	<0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80						
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		<0.0006	<0.0006	0.002	**0.027**	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		<0.0013	<0.0013	**0.335**	**1.584**	**0.055**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.5	7.5	8.04	7.49	7.08
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.04	<0.005	<0.005	**0.005**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515						0.005
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827						**0.005**
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52						0.1
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		**320**	**320**	52	60	38
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		0.12	0.12	0.36	0.53	**4.04**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		7.7	7.7	5.2	3.8	3.6
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		501		2516	2069	358
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80			501			
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30						
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5						
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80				316		
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540						
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0						
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01						
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.1	<0.01	<0.01	
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						<0.0001
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965				<0.005	<0.005	
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485				<0.005	<0.005	
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165				<0.005	<0.005	

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213		0.018	<0.005	
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.005	<0.005	
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001		<0.001	<0.001	
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001		<0.001	<0.001	
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05		<0.005	<0.005	
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05				
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690		0.018	<0.005	
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375		<0.005	<0.005	
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445		<0.005	<0.005	
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135		<0.005	<0.005	
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765		<0.01	<0.01	
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.005	<0.005	
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001		<0.001	<0.001	
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001		<0.001	<0.001	
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025		<0.005	<0.005	
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935				
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604		<0.01	<0.01	
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006		0.018	<0.01	
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095				
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1				
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01				
PAH												
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201		0.00027	<0.00001	0.00009
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077		0.00041	<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585		**0.00505**	**0.00003**	**0.00002**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025		0.00024	<0.00001	0.00005
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285		0.00201	<0.00001	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452		0.00235	<0.00001	<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925		0.00513	0.00003	<0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111		0.00004	<0.00001	<0.00005
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948		0.0291	0.00011	<0.0002
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172				
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104		0.0001	<0.00001	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306		**0.00051**	<0.00001	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367		0.00228	0.00001	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386		0.00199	<0.00001	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041		**0.00242**	**0.00001**	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491		0.00281	0.00002	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013		0.00094	<0.00001	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351		0.0026	0.00001	<0.00001
BTEX												
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001		<0.001	<0.001	
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001	
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001	
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002		<0.001	<0.001	
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001		<0.001	<0.001	
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001				
VOC												
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001				
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001				
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001				
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001				
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001				
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001				
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001				
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003				
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001				
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003				
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014				
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002				
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001				
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001				

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

MTBE (w) <0.001 <0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH204	BH204	BH204	BH205	BH205
									Easting	384815.474	384815.474	384815.474	384689.078	384689.078
									Northing	399703.59	399703.59	399703.59	399735.153	399735.153
									Hole Elevation (mOD)	43.276	43.276	43.276	42.578	42.578
									Sample Depth (mbgl)	2.36	3.1	2.36	5.68	5.68
									Piezometer top (mbgl)	1.5	1.5	1.5	4.8	4.8
									Piezometer base (mbgl)	10	10	10	10.8	10.8
									Sample Date	11/08/21	05/07/22	26/05/2021	26/05/2021	26/05/2022
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604
									Response zone	Made ground	Made ground	Made ground	Manchester Marl	Manchester Marl
										St Catherine's Wood	St Catherine's Wood	St Catherine's Wood	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		<0.00017	0.001	0.00018	0.00034	<0.001
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.002991	0.004	0.0044	0.0016	0.031
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	<0.001	<0.0001	<0.0001	0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		<0.00003	**0.0115**	<0.00003	**0.00064**	**0.0178**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		160	237	120	64	425
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		<0.00025	<0.001	<0.00025	<0.00025	0.003
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		<0.0004	0.004	<0.0004	0.0007	0.009
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		<0.00009	0.002	0.00046	0.00015	**0.01**
Magnesium		-	mg/l	No GAC	-		53	50.0		29				
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**1.950535**	**3.36**	**1.8**	**0.46**	**11.6**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001	<0.0001	<0.00001	0.00002	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		<0.0005	0.012	0.0018	0.003	**0.062**
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10		7.2				
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		<0.00025	<0.001	0.00026	0.00059	0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80		8.2			54	
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		<0.0006	<0.001	<0.0006	<0.0006	0.01
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		<0.0013	**1.606**	0.0086	0.024	**2.594**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.5	7.26	7.2	7.4	7.32
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.005	<0.04	<0.04	**0.024**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515						0.024
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827						<0.005
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52						0.2
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		15	6	9.9	54	61
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		0.36	0.54	0.53	0.07	0.36
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		24	4.5	<2	<2	
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250					1.7	
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0			760	412	345	1800
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80		511				
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30		0.78			<0.1	
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5		0.43			<0.1	
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80		70			78	
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540		0.02502			0.058	
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0		380			310	
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01						
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.01	<0.1	<0.1	
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965			<0.005	<0.001	<0.001	<0.001
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485			<0.005	0.0052	<0.001	<0.001
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165			<0.005	0.026	<0.001	<0.001

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.005	<0.001		<0.001	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	<0.005	<0.001		<0.001	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.001	<0.0001		<0.0001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.001	<0.0001		<0.0001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.005	<0.0001		<0.0001	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05					
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690	<0.005				
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.005	<0.001		<0.001	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	<0.005	<0.001		<0.001	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	<0.005	<0.001		<0.001	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.01	<0.001		<0.001	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.005	<0.001		<0.001	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.001	<0.0001		<0.0001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.001	<0.0001		<0.0001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	0.008	<0.0001		<0.0001	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935		<0.001		<0.001	<0.001
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	<0.01		0.033		<0.001
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006	<0.01				
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095			0.033		<0.001
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1					
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01					
PAH													
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	<0.00001	0.00003		<0.00001	
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001	<0.00001		<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00005**	<0.00001		<0.00001	**0.00007**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	<0.00001	0.00002		<0.00001	<0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	0.00001	<0.00001		<0.00001	0.00003
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	0.00002	<0.00001		<0.00001	<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.00005	<0.00001		<0.00001	0.00008
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	<0.00001	**0.013**		<0.00005	0.00003
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.00025	0.00024		<0.0002	
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172		0.00003			0.00048
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001	<0.00001		<0.00001	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	<0.00001	<0.00001		<0.00001	0.00002
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00002	<0.00001		<0.00001	0.00004
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	0.00001	<0.00001		<0.00001	0.00003
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	**0.00003**	<0.00001		<0.00001	**0.00005**
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	0.00003	<0.00001		<0.00001	**0.00006**
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	0.00001	<0.00001		<0.00001	0.00002
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	0.00002			<0.00001	0.00005
BTEX													
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001		<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001		<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001		<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002	<0.001				<0.001
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001	<0.001				<0.001
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001		<0.001		<0.001	
VOC													
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001					
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014					
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002					
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001	
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455	
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0	
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002	
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0	
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448	0.0066
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001	
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001	
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162	
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001	

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH206	BH206	BH207	BH207	BH208
									Easting	384729.233	384729.233	384654.25	384654.25	384562.98
									Northing	399690.75	399690.75	399626.1	399626.1	399592.56
									Hole Elevation (mOD)	42.692	42.692	41.638	41.638	40.66
									Sample Depth (mbgl)	2.77	2.77			12
									Piezometer top (mbgl)	2	2	1.5	1.5	3
									Piezometer base (mbgl)	6	6	15.5	15.5	13
									Sample Date	10/08/21	26/05/2021	26/05/2021	10/08/2021	10/08/21
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604
									Response zone	Glacial till	Glacial till	Made ground	Made ground	Made ground
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.000601	0.0004	0.00043	0.0011	0.000867
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.000897	0.00089	0.0024	0.001	0.00481
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		**0.000631**	**0.0007**	**0.0002**	**0.00087**	**0.000232**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		110	92	110	200	99
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		0.000351	<0.00025	0.0003	0.0011	0.000603
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		<0.0004	0.0004	0.0004	0.0054	0.002559
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90				0.041		
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		0.000347	0.0001	0.00027	0.0025	0.000128
Magnesium		-	mg/l	No GAC	-		53	50.0				50	0	
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**0.854463**	**1.5**	**1.7**	0.0082	**0.390387**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001	<0.00001	0.00002	<0.00001	0.000014
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.001963	0.0024	0.014	0.0067	0.00484
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10				5.8		
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		0.000346	0.00042	0.0013	0.0018	0.006872
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80				97		
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		<0.0006	<0.0006	<0.0006	<0.0006	0.002819
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		0.032346	0.033	**0.077**	**0.15**	0.014094
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		6.9	7.1	7.1	6.8	7
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.04	<0.04	<0.04	<0.04
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515				<0.0001		
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827				<0.02		
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52				<0.02		
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		5.1	9.6	64	26	31
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		0.05	0.19	0.077	0.077	**1.3**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		<2	<2	<2	2.7	6.5
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0			310	476	623	
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80		355				327
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30				0.57		
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5				<0.1		
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80				150		
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540				0.026		
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0				450		
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01				<0.0001		
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241				<0.002		
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001				<0.0001		
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965			<0.001	<0.001		
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485			<0.001	<0.001		
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165			<0.001	<0.001		

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213		<0.001	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.001	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001		<0.0001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001		<0.0001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05		<0.0001	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05			
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690			
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375		<0.001	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445		<0.001	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135		<0.001	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765		<0.001	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.001	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001		<0.0001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001		<0.0001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025		<0.0001	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935			<0.001
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604			<0.001
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006			
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095			<0.001
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1			
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01			
PAH											
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201		<0.00001	0.00001
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077		<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585		<0.00001	<0.00001
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025		0.00001	0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285		<0.00001	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452		<0.00001	<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925		<0.00001	<0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111		<0.00005	<0.00005
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948		<0.0002	<0.0002
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172			<0.00001
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104		0.00002	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306		<0.00001	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367		<0.00001	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386		<0.00001	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041		<0.00001	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491		<0.00001	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013		<0.00001	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351		<0.00001	
BTEX											
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001		<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002			<0.002
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001			<0.001
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001		<0.001	<0.001
VOC											
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003			<0.001
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003			<0.001
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014			<0.001
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.001
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.001
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005	<0.004
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01	<0.004
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001	
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001	
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01	<0.001
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.001
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016	
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026	<0.001
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022	<0.001
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.001
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024	<0.001
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001	
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018	<0.001
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
SVOC									
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01	<0.001
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022	<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01	<0.001
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Herbicides									
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Pesticides									
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH208	BH209	BH209	BH210	BH210
									Easting	384562.98	384548.843	384548.843	384479.67	384479.67
									Northing	399592.56	399628.33	399628.33	399554.7	399554.7
									Hole Elevation (mOD)	40.66	41.214	41.214	40.45	40.45
									Sample Depth (mbgl)	12	12.47	12.47	10.8	10.8
									Piezometer top (mbgl)	3	11	11	14	14
									Piezometer base (mbgl)	13	17	17	19.6	19.6
									Sample Date	27/05/2021	10/08/21	27/05/2021	10/08/21	27/05/2021
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604
									Response zone	Made ground	Chester Pebble Beds	Chester Pebble Beds	Chester Pebble Beds	Chester Pebble Beds
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.00091	0.00061	0.00038	0.002005	0.002
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.0028	0.001961	0.0029	0.001124	0.0026
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		**0.0009**	**0.000968**	**0.0003**	<0.00003	<0.00003
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		170	140	100	120	100
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		0.00033	0.00041	<0.00025	0.000643	0.00026
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		0.0034	0.000525	0.0006	0.003132	0.0022
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90				0.097		**1.1**
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		0.00042	0.000356	0.00041	<0.00009	0.00024
Magnesium		-	mg/l	No GAC	-		53	50.0				50	27	28
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**0.67**	**0.753782**	**1.6**	**0.746742**	**0.85**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		0.00002	0.000013	0.00002	<0.00001	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.0053	0.014998	0.012	0.001259	0.0021
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10				5.3	7.1	7.6
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		0.0049	0.002252	0.001	0.000387	0.00054
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80		89		48	38	13
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		0.0013	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		0.037	**0.100339**	<0.0006	0.003744	0.0039
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7	6.9	7.1	7	7.2
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.04	<0.04	<0.04	<0.04
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515						
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827						
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52						
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		23	51	63	22	28
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		**1**	0.13	0.15	**2.5**	**7.4**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		4	<2	<2	3.5	3.3
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		532		468		370
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80			589		410	
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30				0.96	<0.5	<0.1
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5			<0.1		<0.5	<0.1
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80				150	98	79
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540				0.16	0.018106	0.073
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0				400	390	380
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01						
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.001	<0.001		<0.001	
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.001	<0.001		<0.001	
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		<0.001	<0.001		<0.001	

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.001	<0.001	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	<0.001	<0.001	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.0001	<0.0001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.0001	<0.0001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.0001	<0.0001	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05			
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690			
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.001	<0.001	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	<0.001	<0.001	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	<0.001	<0.001	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.001	<0.001	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.001	<0.001	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.0001	<0.0001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.0001	<0.0001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	<0.0001	<0.0001	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935	<0.001	<0.001	<0.001
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	<0.001		
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006			
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095	<0.001		
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1			
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01			
PAH											
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.00001	0.00001	0.00002
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001	<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00003**	<0.00001	**0.00002**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	0.00001	<0.00001	0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	0.00004	<0.00001	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	<0.00001	<0.00001	0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.00005	<0.00001	0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	<0.00005	<0.00005	<0.00005
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.00038	<0.0002	<0.0002
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172	<0.00001		
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001	<0.00001	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	0.00003	<0.00001	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00005	<0.00001	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	0.00005	<0.00001	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	**0.00005**	<0.00001	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	0.00003	<0.00001	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	0.00004	<0.00001	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351		<0.00001	<0.00001
BTEX											
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002			
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001			
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
VOC											
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001			
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003			
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001			
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003			
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014			
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002			
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001	
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001	
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455	
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0	
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002	
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0	
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448	0.24
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001	
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001	
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001	
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162	
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005	
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005	
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001	
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001	

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Viaduct	Red Bank Viaduct
Hole Ref									BH211A	BH211A	BH211A	BH212	BH212
Easting									384441.79	384441.79	384441.79	384487.32	384487.32
Northing									399513.96	399513.96	399513.96	399426.078	399426.078
Hole Elevation (mOD)									40.44	40.44	40.44	30.377	30.377
Sample Depth (mbgl)									7.73	9.1	7.73	3.48	3.48
Piezometer top (mbgl)									5	5	5	5.5	5.5
Piezometer base (mbgl)									10.5	10.5	10.5	9	9
Sample Date									10/08/21	04/07/22	27/05/2021	05/07/22	01/06/2021
Investigation									NW1604	NW1604	NW1604	NW1604	
Response zone									Made ground	Made ground	Made ground	Chester Pebble Beds	Chester Pebble Beds
Metal													
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005	0.000411	<0.001	0.000042	0.005	**0.0059**
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382	0.019811	<0.001	0.00098	0.039	0.014
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004	<0.0001	<0.001	<0.0001	0.002	<0.0001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135	<0.00003	<0.0002	<0.00003	**0.0038**	**0.00019**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70	180	655	220	215	170
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211	0.000993	<0.001	0.00011	**0.045**	0.0019
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065	<0.0004	0.003	0.00014	**0.078**	0.0046
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90			0.82		0.22
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805	0.000903	<0.001	0.0005	**0.866**	0.00043
Magnesium		-	mg/l	No GAC	-		53	50.0	26		22		11
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270	**0.421533**	**3.6**	0.067	**0.79**	0.023
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838	<0.00001	<0.0001	<0.00001	<0.0001	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746	0.001076	**0.02**	0.00022	**0.024**	0.0027
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10	13		9.9		7.6
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225	<0.00025	<0.001	<0.00025	0.005	0.0069
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80	14		29		16
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0					
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297	<0.0006	<0.001	<0.0006	**0.03**	0.0028
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393	0.002366	**0.046**	0.00092	**0.923**	0.022
Inorganic													
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826	7.1	7.2	7.2	7.03	7.2
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239	<0.04	**3.861**	<0.04	**5.246**	**0.29**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515	0.008794	3.854	0.0032	5.112	0.36
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827	<0.02	**0.007**	<0.02	**0.134**	**0.26**
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52	<0.02	0.2	<0.02	0.7	<0.02
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50	34	31	38	14	23
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80	**5.6**	**3.67**	**2.7**	<0.02	<0.015
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0	3.4	5.5	2.4	3.5	<2
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250					
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		1824	635	617	475
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80	543				
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30	2.4		<0.1		13
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5	<0.5		<0.1	<0.1	
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80	130		150		200
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540	0.096618		0.044		0.03
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0	600		470		250
Phenol and mineral oils													
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01		<0.001	0.0027		
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1	<0.1	<0.01	<0.1	<0.01	<0.1
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241			0.028		
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001			<0.0001		
TPH													
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.005	<0.001	<0.005	<0.001
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.005	<0.001	<0.005	<0.001
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		0.02	0.0056	<0.005	<0.001

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	0.427		0.04		0.015	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	0.05	<0.001			<0.005	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.001	<0.0001			<0.001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.001	<0.0001			<0.001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.005	<0.0001			<0.005	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05						
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690	0.497				0.015	
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.005	<0.001			<0.005	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	0.009		0.0018		<0.005	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	0.041		0.017		0.005	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	0.065		0.057		<0.01	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.005		0.0056		<0.005	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.001	<0.0001			<0.001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.001	<0.0001			<0.001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	0.006	<0.0001			<0.005	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935			0.082			<0.001
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	0.121		0.041		<0.01	
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006	0.618				0.02	
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095			0.12			
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1						
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01						
PAH														
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.00001		0.00003		<0.00001	0.00011
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001	<0.00001			<0.00001	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00004**		**0.00001**		**0.00013**	**0.00001**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	<0.00001		0.00003		<0.00001	0.00005
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	0.00001	<0.00001			0.00004	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	0.00002		0.00003		0.00008	0.00003
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.00004	<0.00001			0.00013	0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	<0.00001	<0.00005			<0.00001	0.00034
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.00023		0.00021		0.00069	0.0006
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172			0.00003			
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001	<0.00001			<0.00001	0.00004
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	<0.00001	<0.00001			0.00001	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00002	<0.00001			0.00005	0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	0.00001	<0.00001			0.00004	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	**0.00002**	<0.00001			**0.00006**	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	0.00002	<0.00001			0.00007	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	<0.00001	<0.00001			0.00002	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	0.00004				0.00006	<0.00001
BTEX														
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001			<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001			<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001			<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002	<0.001	<0.002			<0.001	
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001	<0.001	<0.001			<0.001	
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001		<0.001				<0.001
VOC														
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001				
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001				
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001				
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.003	<0.001				
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001				
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.003	<0.001				
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014	<0.001	<0.001				
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.002	<0.001				
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001				

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.002	<0.001	
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.001	<0.002	
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.001	<0.002	
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005			<0.005	<0.004	
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01			<0.01	<0.004	
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01			<0.01	<0.001	
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003			<0.003	<0.001	
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016			<0.005		
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026			<0.001	<0.001	
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001			<0.001	<0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022			<0.001	<0.001	
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.002	<0.001	
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024			<0.001		0.002
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001		
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001			<0.001		
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018			<0.001	<0.001	
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
SVOC													
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001		
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01			<0.01		0.0012
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001	<0.001	
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	<0.001	
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022			<0.001	<0.001	

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01		<0.01	<0.001
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001		<0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001		<0.001	
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001		<0.001	
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001	
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001		<0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001	
Herbicides											
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Pesticides											
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001			

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

<0.001

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001			
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001			
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001			
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455			
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005			
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001			
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0			
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002			
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0			
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448		3	
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001			
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001			
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162			
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005			
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001			

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH214A	TP202B	TP202C	WS201B	WS201B
									Easting	384430.62	384722.997	384712.277	384735.29	384735.29
									Northing	399360.71	399751.007	399739.124	399787.2	399787.2
									Hole Elevation (mOD)	30.033	42.736	42.618	43.55	43.55
									Sample Depth (mbgl)		0.45	1	0.79	0.79
									Piezometer top (mbgl)	3	N/A	N/A	0.5	0.5
									Piezometer base (mbgl)	4	N/A	N/A	1.3	1.3
									Sample Date	01/06/2021	30/03/21	30/03/21	11/08/21	27/05/2021
									Investigation	NW1604	NW1604	NW1604	NW1604	NW1604
									Response zone	Glacial till	Made ground	Made ground	Made ground	Made ground
										Red Bank Viaduct	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.001			0.002071	0.0005
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.0017			0.00179	0.0006
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001			<0.0001	<0.0001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		**0.00024**			**0.000853**	**0.00067**
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		100			110	180
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		<0.00025			<0.00025	0.00034
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		0.0048			0.007221	0.0081
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						0.015
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		0.00076			0.000124	0.00042
Magnesium		-	mg/l	No GAC	-		53	50.0					9.9	25
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**0.57**			**0.631057**	0.15
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001			<0.00001	<0.00001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.0028			0.002177	0.0053
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10					9.2	18
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		**0.052**			**0.032081**	<0.00025
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80					120	
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		0.0014			0.002288	<0.0006
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		0.011			**0.056632**	**0.092**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.5			7.5	7.3
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04			<0.04	<0.04
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515		0.0005	0.00061	0.00065		
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827		<0.02	<0.02	<0.02		
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52		<0.02	<0.02	<0.02		
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		24			5.6	32
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		0.34			0.088	**22**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		2.2			4.7	3.3
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		283				553
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80					312	
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30					0.18	45
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5					<0.1	0.32
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80					150	34
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540					0.01636	0.019
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0					380	600
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01			<0.0001	<0.001		
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1			<0.1	<0.1
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241			<0.002			
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001			<0.0001			
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.001	<0.001	<0.001	<0.001	
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.001	<0.001	<0.001	<0.001	
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		<0.001	<0.001	<0.001	<0.001	

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213		<0.001		<0.001	<0.001	<0.001
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.001		<0.001	<0.001	<0.001
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001			0.13	<0.0001	<0.0001	<0.0001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001			0.1	<0.0001	<0.0001	<0.0001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05		<0.0001		<0.0001	<0.0001	<0.0001
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05						
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690						
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375		<0.001		<0.001	<0.001	<0.001
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445		<0.001		<0.001	<0.001	<0.001
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135		<0.001		<0.001	<0.001	<0.001
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765		<0.001		<0.001	<0.001	<0.001
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.001		<0.001	<0.001	<0.001
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001		<0.0001		<0.0001	<0.0001	<0.0001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001		<0.0001		<0.0001	<0.0001	<0.0001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025		<0.0001		<0.0001	<0.0001	<0.0001
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935		<0.001		<0.001	<0.001	<0.001
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604						<0.001
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006						
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095		<0.001		<0.001	<0.001	<0.001
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1						
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01						
PAH														
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201		<0.00001		0.001126	<0.001	<0.00001
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077		<0.00001		0.015089	0.00123	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585		<0.00001		**0.019478**	**0.00734**	**0.00002**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025		<0.00001		0.001201	<0.001	<0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285		<0.00001		0.064903	0.00334	<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452		<0.00001		0.006666	0.00272	0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925		<0.00001		0.021859	0.00757	<0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111		<0.00005		<0.00005	<0.001	<0.00005
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948		<0.0002				<0.0002
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172				0.359917		<0.00001
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104		<0.00001		<0.00001	<0.001	0.00002
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306		<0.00001		**0.002814**	**0.00103**	<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367		0.00001		0.012339	0.00452	<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386		<0.00001		0.073465	0.00426	<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041		<0.00001		**0.049364**	**0.00633**	<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491		<0.00001		0.054044	0.00882	<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013		<0.00001		0.021665	0.00198	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351		<0.00001		0.015904	0.0039	
BTEX														
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001		<0.001		<0.001	<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002					<0.002	
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001					<0.001	
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001		<0.001		<0.001		<0.001
VOC														
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001	
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001	
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001	
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					<0.001	
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001	
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					<0.001	
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014					<0.001	
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002					<0.001	
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001	

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.001
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005	<0.004
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01	<0.004
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001	
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001	<0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01	<0.001
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.001
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016	<0.027
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026	<0.001
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022	<0.001
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.001
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024	<0.001
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001	
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018	<0.001
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
SVOC									
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01	<0.001
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022	<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01	<0.001
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	
Herbicides									
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Pesticides									
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005		
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005		
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005		
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001		
Other										
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0		
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921		

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455				
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005				
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005				
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0				
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002				
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0				
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448				0.009
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001		<0.0001		
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001				
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001		<0.0001		
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001				
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002				
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162				
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001		<0.0001		
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001		<0.0001		
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005				
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001	

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	WS207	WS207	WS210	BH303	BH306
									Easting	384628.92	384628.92	384519.68	384719.84	384520.14
									Northing	399674.79	399674.79	399609.6	399660.22	399490.63
									Hole Elevation (mOD)	41.91	41.91	40.881	42.3	31.45
									Sample Depth (mbgl)	0.27	0.27		10.72	5.03
									Piezometer top (mbgl)	0.9	0.9	1.5	8.5	3.9
									Piezometer base (mbgl)	4.9	4.9	2.6	11	5.6
									Sample Date	10/08/21	26/05/2021	01/06/2021	04/07/22	27/05/22
									Investigation	NW1604	NW1604	NW1604	326R	326R
									Response zone	Made ground	Made ground	Made ground	Alluvium	Alluvium
										Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Plateau	Red Bank Terrace
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.000637	0.00056	0.00025	0.003	0.004
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.000716	0.00066	0.00026	**0.116**	0.024
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.0001	<0.0001	<0.0001	<0.001	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		**0.000627**	**0.001**	0.0001	<0.0002	<0.0002
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		190	170	82	<1	1070
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		0.000346	0.00037	0.0046	**0.005**	**0.005**
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		0.007768	0.0069	0.0008	**0.061**	0.004
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90						0.806
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		0.000322	0.00076	<0.00009	<0.001	**0.013**
Magnesium		-	mg/l	No GAC	-		53	50.0		24				49
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		0.167887	**0.34**	0.049	0.007	**6.09**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.00001	<0.00001	<0.00001	<0.0001	<0.0001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		0.004524	0.0054	0.0023	<0.002	**0.076**
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10		21				21
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		<0.00025	<0.00025	0.0016	**0.037**	<0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80		28				
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						<0.001
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		<0.0006	<0.0006	<0.0006	**0.217**	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		**0.101119**	**0.093**	0.0063	<0.002	**0.39**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.1	7.1	6.5	7.36	7.04
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.04	<0.04	<0.04	**0.027**	**3.509**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515						
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827						
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52						
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		27	33	21	146	38
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		**16**	**18**	0.12	0.47	**21.8**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		3.9	2.8	3.3	3.2	5.9
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0			532	280	2	2857
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80		572				
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30		12				
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5		<0.5				
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80		30				
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540		0.212521				
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0		640				
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01						<0.001
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.1	<0.1	<0.1	<0.01	<0.01
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965			<0.001	I/S	<0.005	<0.005
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485			<0.001	I/S	<0.005	<0.005
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165			<0.001	I/S	<0.005	<0.005

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213		<0.001	I/S	<0.005	<0.005
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.001	I/S	<0.005	<0.005
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001		<0.0001	I/S	<0.001	<0.001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001		<0.0001	I/S	<0.001	<0.001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05		<0.0001	I/S	<0.005	<0.005
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05					
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690				<0.005	<0.005
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375		<0.001	I/S	<0.005	<0.005
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445		<0.001	I/S	<0.005	<0.005
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135		<0.001	I/S	<0.005	<0.005
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765		<0.001	I/S	<0.01	<0.01
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.001	I/S	<0.005	<0.005
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001		<0.0001	I/S	<0.001	<0.001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001		<0.0001	I/S	<0.001	<0.001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025		<0.0001	I/S	<0.005	<0.005
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935		<0.001	I/S		
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604		<0.001	I/S	<0.01	<0.01
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006				<0.01	<0.01
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095		<0.001	I/S		
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1					
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01					
PAH													
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201		<0.00001	<0.00001	0.00231	0.00005
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077		<0.00001	<0.00001	0.00182	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585		<0.00001	0.00038	0.02689	0.00015
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025		<0.00001	<0.00001	0.00216	0.00003
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285		<0.00001	<0.00001	0.00845	0.00005
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452		<0.00001	0.0003	0.0206	0.00011
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925		<0.00001	0.00083	0.03087	0.00015
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111		<0.00005	<0.00005	0.00137	0.00003
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948		<0.0002	<0.0002	0.171	0.00093
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172		<0.00001	<0.00001		
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104		<0.00001	<0.00001	0.00076	<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306		<0.00001	<0.00001	0.00443	0.00003
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367		<0.00001	<0.00001	0.01469	0.00006
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386		<0.00001	<0.00001	0.00834	0.00005
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041		<0.00001	<0.00001	0.01395	0.00006
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491		<0.00001	<0.00001	0.01411	0.00007
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013		<0.00001	<0.00001	0.00537	0.00003
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351				0.01491	0.00006
BTEX													
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001		<0.001	<0.001	<0.001	<0.001
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001	<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002				<0.001	<0.001
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001				<0.001	<0.001
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001		<0.001	<0.001		
VOC													
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					<0.003
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001					<0.001
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003					<0.003
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014					<0.001
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002					<0.002
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001					<0.001

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002			<0.001
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.001
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005			<0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01			<0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001			<0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01			<0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003			<0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016			<0.005
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026			<0.001
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001		<0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022			<0.001
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002			<0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024			<0.001
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001			<0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001			<0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018			<0.001
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
SVOC											
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01			<0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001			<0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022			<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01	<0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	<0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001	<0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001
Herbicides									
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002	
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005	
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Pesticides									
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001	

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

<0.001

<0.01

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001			
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001			
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001			
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455			0.035
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005			
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005			
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001			
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0			
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002			
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0			
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448	0.021		
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001			
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001			
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001			<0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001			<0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002			
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162			0.017
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005			
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005			
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001			
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001			

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	BH306	BH310	BH314	BH315	BH315
									Easting	384520.14	384838.09	384439.7	384852.04	384852.04
									Northing	399490.63	399638.18	399502.02	399729.3	399729.3
									Hole Elevation (mOD)	31.45	32.6	40.5	39.26	39.26
									Sample Depth (mbgl)	4.91	4.43	11.1	12	11.44
									Piezometer top (mbgl)	3.9	8	9.5	9	9
									Piezometer base (mbgl)	5.6	16	12	12.5	12.5
									Sample Date	05/07/22	05/07/22	27/05/22	26/05/22	05/07/22
									Investigation	326R	326R	326R	326R	326R
									Response zone	Alluvium	Collyhurst	Glacial till/bedrock	Alluvium	Alluvium
										Red Bank Terrace	St Catherine's Wood	Red Bank Terrace	St Catherine's Wood	St Catherine's Wood
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		0.003	<0.001	<0.001	<0.001	<0.001
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		**0.192**	0.007	0.028	0.01	0.016
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		**0.006**	<0.001	<0.001	<0.001	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		**0.0072**	<0.0002	**0.0013**	<0.0002	<0.0002
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		406	70	852	779	476
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		**0.744**	<0.001	**0.035**	<0.001	<0.001
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		**0.844**	0.004	**0.065**	<0.001	<0.004
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90		**19.7**				
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805		**3.61**	0.008	**0.143**	<0.001	<0.001
Magnesium		-	mg/l	No GAC	-		53	50.0		53				
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270		**2.23**	**1.31**	**11.7**	**13.4**	**9.76**
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		**0.098**	0.002	**0.077**	**0.025**	**0.024**
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10		16	<0.0001			
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225		**0.014**	<0.001	0.003	<0.001	<0.001
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80						
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0		0.018				
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		**0.092**	<0.001	0.02	<0.001	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		**0.947**	0.024	**0.265**	**0.065**	**0.083**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		6.97	7.5	6.78	7.36	7.18
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		**0.265**	**0.009**	**0.328**	**0.879**	**0.223**
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515		0.26	0.009	0.328	0.879	0.223
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827		**0.005**	<0.005	<0.005	<0.005	<0.005
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52		<0.1	0.1	0.2	0.8	<0.1
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		36	39	53	51	48
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		**0.72**	**1.22**	**49**	**5.04**	**6.88**
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		10.8	<2	9.7	9.5	8
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250						
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0		1215	262	2504	2266	1414
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80						
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30						
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5						
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80						
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540						
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0						
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01		<0.001		<0.001	<0.001	<0.001
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1		<0.01		<0.01	<0.01	<0.01
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.005	0.008	<0.005	<0.005	0.005
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.005	**1.173**	<0.005	<0.005	<0.005
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		<0.005	0.009	<0.005	<0.005	<0.005

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.005	0.039	<0.005	<0.005	0.028
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.005	<0.005	<0.005	<0.005	0.015
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05					
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690	<0.005		<0.005	<0.005	0.048
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.005	0.027	<0.005	<0.005	0.047
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	<0.005	**0.436**	<0.005	**0.114**	**0.1**
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	<0.005	0.016	<0.005	0.078	0.073
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.01	<0.01	<0.01	<0.01	0.043
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.001	<0.001	<0.001	0.008	0.003
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	<0.005	<0.005	<0.005	<0.005	0.02
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935					
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	<0.01	0.479	<0.01	0.2	0.286
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006	<0.01	1.71	<0.01	0.2	0.334
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095					
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1					
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01					
PAH													
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.00003	<0.00001	**0.00015**	0.00174	0.00085
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	0.00004	<0.00001	**0.00005**	0.00053	<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00066**	<0.00001	**0.00065**	**0.00407**	**0.00057**
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	0.00003	<0.00001	0.0001	0.00279	0.00105
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	0.00018	<0.00001	0.00023	0.00258	0.00002
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	0.0004	<0.00001	0.0004	0.00116	0.00015
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.00068	0.00002	0.00075	0.0081	0.00099
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	<0.00001	<0.00001	0.0001	0.00072	0.0002
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.00376		0.00424	0.0378	0.00423
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172		0.00002			
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001	<0.00001	0.00003	0.0011	0.00009
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	0.00009	<0.00001	0.0001	**0.00063**	0.0001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00031	<0.00001	**0.00031**	0.00204	0.00005
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	0.00017	<0.00001	0.00025	0.00364	0.00003
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	**0.00032**	<0.00001	0.00031	**0.0029**	**0.00003**
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	0.00037	<0.00001	**0.00034**	0.00257	0.00003
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	0.00012	<0.00001	0.00012	0.00079	<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	0.00036	<0.00001	0.00035	0.00243	0.00007
BTEX													
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001	<0.001	<0.001	<0.001	0.008	0.003
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001					
VOC													
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.003		<0.003	<0.003	<0.003
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.003		<0.003	<0.003	<0.003
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014	<0.001		<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.002		<0.002	<0.002	<0.002
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001		<0.001	<0.001	<0.001

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOC													
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022	<0.001	<0.001	<0.001	<0.001	<0.001

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01		<0.01		<0.01	<0.01	<0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001		<0.001		<0.001	<0.001	<0.001
Herbicides														
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005						
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002						
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005						
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005						
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005						
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005						
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Pesticides														
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001						

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005				
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005				
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005				
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001				
Other												
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001				
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001				
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001				
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001				
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001				
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001				
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001				
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0				
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921	13.6			

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001				
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001				
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001				
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001				
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455	0.032		0.017	0.014
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005				
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005				
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001				
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0				
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002				
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0				
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448				
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001				
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001				
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001				
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001	<0.001			
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002				
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162	<0.001			
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005				
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005				
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001				
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001				

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Hole Ref	BH322	TT301	Surface water 1	Surface water 2	SWS01
Easting	384715.2	384842.09	384744.43	384135.898	384912
Northing	399587.28	399747.44	399556.968	399211.009	399771
Hole Elevation (mOD)	32.49	42.6			
Sample Depth (mbgl)	4.7	2			
Piezometer top (mbgl)	5.4				
Piezometer base (mbgl)	5.8				
Sample Date	44761	44781	27/05/2021	27/05/2021	05-Mar-22
Investigation	326R	326R	NW1604	NW1604	326R
Response zone	Alluvium	Made ground	RIVER	RIVER	RIVER

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	St Catherine's Wood	St Catherine's Wood	Upstream	Downstream	Upstream
Metal													
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005	<0.001	<0.005	0.0012	0.0012	0.002
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382	0.007	0.0054	0.0026	0.0026	0.002
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004	<0.001	<0.005	<0.0001	<0.0001	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135	**0.0008**	<0.01	0.00008	0.00007	<0.0002
Calcium		-	mg/l	No GAC	-	<1	1070	844.70	232	915	51	52	33
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211	<0.001	<0.005	0.00042	0.00049	<0.001
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065	0.013	<0.02			<0.01
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90			0.0039	0.004	0.006
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805	0.003	<0.05	**0.27**	**0.3**	
Magnesium		-	mg/l	No GAC	-		53	50.0			0.00082	0.0011	<0.001
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270	**6.44**	**8.62**	**7.3**	**7.2**	
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838	<0.00001	<0.0005	**0.0099**	**0.011**	**0.014**
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746	**0.028**	<0.01	<0.00001	<0.00001	<0.0001
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10			0.0041	0.0041	0.003
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225	<0.001	<0.005	**6**	**6**	
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80			0.00034	0.00033	<0.001
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0			31	31	
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297	<0.001	<0.005	0.0008	0.0009	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393	**0.154**	0.0051	0.026	0.029	0.034
Inorganic													
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826	7.27	7.25	7.6	7.6	7.58
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239	**0.017**	**0.005**	<0.04	<0.04	<0.005
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515		0.005			<0.005
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827		**0.005**			<0.005
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52		0.1			0.2
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50	17	1	45	47	49
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80	0.59	**1.35**	0.21	0.25	<0.02
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0	60.1		3	3.2	9.2
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250			158	160	104
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0	666	2636	19	19	
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80			0.15	0.18	
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30			48	49	
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5			0.016	0.013	
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80			130	130	
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540			3.1	2.3	
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0			17	20	
Phenol and mineral oils													
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01					<0.01
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1	<0.01		<0.1	<0.1	
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241					
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001					
TPH													
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965	<0.001	0.227	<0.001	<0.001	<0.05
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485	<0.001	**2.99**	<0.001	<0.001	<0.05
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165	<0.001	2.38	<0.001	0.012	<0.05

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.001		4.09	<0.001		0.052	<0.05	
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.001		<0.001	<0.001		<0.05	
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001	<0.0001							
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.0001	<0.0001		<0.0001	<0.0001		<0.001	
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.0001	<0.0001		<0.0001	<0.0001		<0.05	
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05	<0.01			<0.0001	<0.0001		<0.05	
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690			9.69					
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	0.006		**0.125**	<0.001	<0.001		<0.05	
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	**0.185**		**3.26**	<0.001	<0.001		<0.05	
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135	0.023		**3.28**	<0.001		0.022	<0.05	
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.001		**1.12**	<0.001		0.027	<0.1	
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.001		<0.001	<0.001		<0.05	
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.0001	<0.0001		<0.0001	<0.0001		<0.001	
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.0001	<0.0001		<0.0001	<0.0001		<0.001	
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	<0.0001		0.095	<0.0001	<0.0001		<0.05	
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935								
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604	0.214							
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006	0.214							
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095				<0.001		0.049		
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1							<0.1	
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01								
PAH																
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.0009	0.00456		<0.00001		0.00001	<0.00001	
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001	<0.00001		<0.00001	<0.00001		<0.00001	
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	**0.00009**	**0.00453**		<0.00001	<0.00001		**0.00002**	
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	0.00006	0.00234		<0.00001	<0.00001		<0.00001	
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	<0.00001	0.00082		<0.00001	<0.00001		<0.00001	
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	0.00013	0.00648		<0.00001	<0.00001		<0.00001	
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	0.00008	0.0114		<0.00001	<0.00001		0.00002	
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	0.00031	<0.00001		<0.00005	<0.00005		<0.00001	
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948	0.00086	0.0462						
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172				<0.0002	<0.0002		0.00004	
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	0.00001	0.00215		<0.00001	<0.00001		<0.00001	
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	0.00004	**0.00353**		0.00002	0.00002		<0.00001	
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	0.00002	0.0025		<0.00001	<0.00001		<0.00001	
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	<0.00001	0.00106		<0.00001	<0.00001		<0.00001	
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	<0.00001	**0.00217**		<0.00001	<0.00001		<0.00001	
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	<0.00001	0.0018		<0.00001	<0.00001		<0.00001	
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	<0.00001	0.00047		<0.00001	<0.00001		<0.00001	
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	0.00003	0.00242		<0.00001	<0.00001		<0.00001	
BTEX																
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001		<0.001						
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001						
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001		<0.001						
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002		<0.001						
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001		<0.001						
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001								
VOC																
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003								
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003								
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014								
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002								
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001								

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	SWS01	SWS01	SWS02	SWS02	SWS02
									Easting	384912	384912	384739	384739	384739
									Northing	399771	399771	399558	399558	399558
									Hole Elevation (mOD)					
									Sample Depth (mbgl)					
									Piezometer top (mbgl)					
									Piezometer base (mbgl)					
									Sample Date	11-Mar-22	18-Mar-22	05-Mar-22	11-Mar-22	18-Mar-22
									Investigation	326R	326R	326R	326R	326R
									Response zone	RIVER	RIVER	RIVER	RIVER	RIVER
										Upstream	Upstream	Central	Central	Central
Metal														
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005		<0.001	0.003	0.001	<0.001	0.003
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382		0.003	0.003	0.002	0.003	0.003
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium		-	mg/l	No GAC	-	<1	1070	844.70		71	54	37	69	54
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211		<0.001	0.001	<0.001	<0.001	<0.001
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065		<0.01	<0.01	<0.01	<0.01	<0.01
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90		0.008	0.007	0.005	0.007	0.006
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805						
Magnesium		-	mg/l	No GAC	-		53	50.0		0.002	0.003	<0.001	<0.001	0.003
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270						
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838		**0.097**	**0.081**	**0.004**	**0.082**	**0.084**
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10		0.004	0.003	0.003	0.004	0.003
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225						
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80		<0.001	<0.001	<0.001	<0.001	<0.001
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0						
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297		<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393		**0.052**	0.036	0.029	**0.047**	**0.055**
Inorganic														
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826		7.42	7.79	7.79	7.44	7.84
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239		<0.005	<0.005	<0.005	<0.005	<0.005
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515		<0.005	<0.005	<0.005	<0.005	<0.005
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827		<0.005	<0.005	<0.005	<0.005	<0.005
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52		0.2	0.3	0.2	0.2	0.3
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50		36	69	51	27	70
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80		0.39	0.14	0.08	0.17	0.15
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0		9.7	11.3	8.5	7.2	10.1
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250		225	173	115	220	175
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0						
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80						
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30						
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5						
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80						
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540						
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0						
Phenol and mineral oils														
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01		<0.01	<0.01	<0.01	<0.01	<0.01
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1						
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241						
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001						
TPH														
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965		<0.05	<0.05	<0.05	<0.05	<0.05
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485		<0.05	<0.05	<0.05	<0.05	<0.05
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165		<0.05	<0.05	<0.05	<0.05	<0.05

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213	<0.05		<0.05		<0.05		0.043	<0.05
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05	<0.05		<0.05		<0.05		0.017	<0.05
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001								
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001	<0.001		<0.001		<0.001	<0.001		<0.001
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05	<0.05		<0.05		<0.05	<0.05		<0.05
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05	<0.05		<0.05		<0.05	<0.05		<0.05
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690								
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375	<0.05		<0.05		<0.05	<0.05		<0.05
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445	<0.05		<0.05		<0.05	<0.05		<0.05
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135		0.005	<0.05		<0.05		0.009	<0.05
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765	<0.1		<0.1		<0.1	<0.1		<0.1
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05	<0.05		<0.05		<0.05	<0.05		<0.05
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001	<0.001		<0.001		<0.001	<0.001		<0.001
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001	<0.001		<0.001		<0.001	<0.001		<0.001
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025	<0.05		<0.05		<0.05	<0.05		<0.05
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935								
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604								
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006								
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095								
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1	<0.1		<0.1		<0.1		0.069	<0.1
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01								
PAH																
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201	0.00002		<0.00001		0.00001	0.00002		<0.00001
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585	<0.00001		<0.00001		**0.00002**	<0.00001		<0.00001
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452	<0.00001		<0.00001		0.00001	<0.00001		<0.00001
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925	<0.00001		<0.00001		0.00003	<0.00001		<0.00001
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111	0.00002		<0.00001		<0.00001	0.00001		<0.00001
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948								
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172	0.00004		<0.00001		0.00007	0.00003		<0.00001
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351	<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
BTEX																
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001								
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001								
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001								
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002								
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001								
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001								
VOC																
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003								
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001								
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003								
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014								
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002								
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001								
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001								

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001

Concentration exceeds GAC	**100.00**
Limit of Detection value exceeds GAC	<0.1

Contaminant Name	GAC	GAC Source	Units	Total > LOD	Total > GAC	Min	Max	95th %ile	Hole Ref	Easting	Northing	Hole Elevation (mOD)	Sample Depth (mbgl)	Piezometer top (mbgl)	Piezometer base (mbgl)	Sample Date	Investigation	Response zone
									SWS03	384445	399337					05-Mar-22	326R	RIVER
									SWS03	384445	399337					11-Mar-22	326R	RIVER
									SWS03	384445	399337					18-Mar-22	326R	RIVER
									Downstream	Downstream	Downstream							
Metal																		
Antimony	0.005	DWS	mg/l	41 of 63	3	0.000042	0.010497	0.005	0.001	0.001	0.003							
Arsenic	0.05	EQS	mg/l	61 of 63	3	0.00026	0.192	0.0382	0.002	0.003	0.003							
Beryllium	0.004	USEPA	mg/l	8 of 63	1	<0.0001	0.006	0.004	<0.001	<0.001	<0.001							
Cadmium	0.00015	EQS*	mg/l	33 of 63	28	<0.00003	0.0205	0.01135	<0.0002	<0.0002	<0.0002							
Calcium		-	mg/l	No GAC	-	<1	1070	844.70	37	62	56							
Chromium	0.0047	EQS	mg/l	32 of 63	10	0.00011	0.744	0.0211	<0.001	<0.001	<0.001							
Copper	0.03375	MBAT	mg/l	39 of 61	6	0.00014	0.844	0.065	<0.01	<0.01	<0.01							
Iron (dissolved)	1	EQS	mg/l	21 of 21	4	0.0039	19.7	5.90	0.008	0.011	0.007							
Lead	0.00958	MBAT	mg/l	40 of 54	13	<0.00009	3.61	0.2805										
Magnesium		-	mg/l	No GAC	-		53	50.0	<0.001	0.01	0.003							
Manganese	0.226	MBAT	mg/l	54 of 54	46	0.007	16.1	13.270										
Mercury	0.001	DWS	mg/l	17 of 63	11	<0.00001	0.167	0.0838	**0.014**	**0.103**	**0.167**							
Nickel	0.01607	MBAT	mg/l	49 of 63	18	<0.00001	0.098	0.0746	<0.0001	<0.0001	<0.0001							
Potassium		-	mg/l	No GAC	-	<0.0001	21	20.10	0.004	0.004	0.003							
Selenium	0.01	DWS	mg/l	32 of 54	7	<0.00025	6	0.04225										
Sodium	200	EUDWS	mg/l	15 of 24	0	0.00033	120	95.80	<0.001	<0.001	<0.001							
Titanium (dissolved)			mg/l	No GAC	-	<0.001	31	31.0										
Vanadium	0.02	EQS*	mg/l	22 of 63	5	<0.0006	0.217	0.0297	<0.001	<0.001	<0.001							
Zinc	0.03728	MBAT	mg/l	58 of 63	30	<0.0006	2.594	1.393	0.023	**0.082**	**0.062**							
Inorganic																		
pH	<6 - >9	EQS*	pH Units	No GAC	-	6.5	8.04	7.826	7.83	7.06	7.95							
Cyanide	0.001	EQS	mg/l	20 of 63	20	<0.005	5.246	0.8239	<0.005	<0.005	<0.005							
Complex Cyanide		EQS	mg/l	No GAC	-	<0.0001	5.112	2.515	<0.005	<0.005	<0.005							
Cyanide (free) (w)	0.001	EQS	mg/l	8 of 30	8	<0.005	0.26	0.0827	<0.005	<0.005	<0.005							
Thiocyanate		EQS	mg/l	No GAC	-	<0.02	0.8	0.52	0.2	0.2	0.3							
Chloride	250	EQS*	mg/l	63 of 63	2	1	320	90.50	51	33	71							
Ammoniacal Nitrogen as N	0.6	EQS	mg/l	59 of 63	24	<0.015	49	17.80	0.07	0.29	0.19							
DOC (w)		-	mg/l	No GAC	-	<2	60.1	17.0	8.9	7.7	11							
BOD (settled, 5 day)			mg/l	No GAC	-	1.7	225	222.250	114	197	181							
Hardness Total		-	mg/l CaCO3	No GAC	-	2	2857	2624.0										
Total hardness		-	mg/l	No GAC	-	0.15	589	578.80										
Nitrate (w)	50	DWS	mg/l	11 of 15	0	<0.1	49	48.30										
Nitrite (w)	0.5	DWS	mg/l	4 of 15	0	0.013	<0.5	0.5										
Sulphate (w)	400	EQS*	mg/l	17 of 17	0	30	325	317.80										
Sulphide		-	mg/l	No GAC	-	0.01636	3.1	2.540										
Total Alkalinity as CaCO3		-	mg/l	No GAC	-	17	640	614.0										
Phenol and mineral oils																		
Phenol	0.0077	EQS	mg/l	1 of 23	0	<0.0001	<0.01	0.01	<0.01	<0.01	<0.01							
Phenol (Monohydric)	0.0077	EQS	mg/l	0 of 49	0	<0.01	<0.1	0.1										
Phenols, Total			mg/l	No GAC	-	<0.0001	0.028	0.0241										
Cresols		-	mg/l	No GAC	-	<0.0001	<0.0001	0.0001										
TPH																		
Ali >C10-C12 (w)	0.3	WHO	mg/l	5 of 53	2	<0.001	38	0.12965	<0.05	<0.05	<0.05							
Ali >C12-C16 (w)	0.3	WHO	mg/l	5 of 53	4	<0.001	81.8	1.485	<0.05	<0.05	<0.05							
Ali >C16-C21 (w)		-	mg/l	No GAC	-	<0.001	54	0.56165	<0.05	<0.05	<0.05							

Ali >C21-C35 (w)		-	mg/l	No GAC	-	<0.001	56.9	0.7213		<0.05			0.018	<0.05	
Ali >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	2.01	0.05		<0.05		<0.05		<0.05	
Ali >C5-C6 (w)	15	WHO	mg/l	1 of 41	0	<0.0001	0.13	0.001							
Ali >C6-C8 (w)	15	WHO	mg/l	2 of 53	0	<0.0001	0.1	0.001		<0.001		<0.001		<0.001	
Ali >C8-C10 (w)	0.3	WHO	mg/l	3 of 53	2	<0.0001	21.4	0.05		<0.05		<0.05		<0.05	
Aliphatics >C5-35		-	mg/l	No GAC	-	<0.0001	<0.05	0.05		<0.05		<0.05		<0.05	
Total Aliphatics (w)		-	mg/l	No GAC	-	<0.005	254	9.690							
Aro >C10-C12 (w)	0.09	WHO	mg/l	6 of 53	3	<0.001	21.3	0.08375		<0.05		<0.05		<0.05	
Aro >C12-C16 (w)	0.09	WHO	mg/l	10 of 53	7	<0.001	48.1	0.99445		<0.05		<0.05		<0.05	
Aro >C16-C21 (w)	0.09	WHO	mg/l	16 of 53	3	<0.001	29	0.42135			0.006		0.006	<0.05	
Aro >C21-C35 (w)	0.09	WHO	mg/l	7 of 53	3	<0.001	12.4	0.1765		<0.1		<0.1		<0.1	
Aro >C35-C44 (w)		-	mg/l	No GAC	-	<0.001	<0.05	0.05		<0.05		<0.05		<0.05	
Aro >C5-C7 (w)	0.01	WHO	mg/l	2 of 53	0	<0.0001	0.008	0.001		<0.001		<0.001		<0.001	
Aro >C7-C8 (w)	0.7	WHO	mg/l	0 of 53	0	<0.0001	<0.001	0.001		<0.001		<0.001		<0.001	
Aro >C8-C10 (w)	0.3	WHO	mg/l	6 of 53	1	<0.0001	9	0.07025		<0.05		<0.05		<0.05	
Aromatics >C10-44			mg/l	No GAC	-	<0.001	0.082	0.02935							
Total Aromatics (w)		-	mg/l	No GAC	-	<0.001	120	2.604							
TPH (Ali & Aro >C5-C44) (w)		-	mg/l	No GAC	-	<0.01	374	9.006							
Total Aliphatics and Aromatics C10-C44			mg/l	No GAC	-	<0.001	0.12	0.08095							
Total Aliphatics and Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.1	0.1		<0.1			0.024	<0.1	
Total Aromatics C5-C35			mg/l	No GAC	-	<0.01	<0.01	0.01							
PAH															
Acenaphthene	2	USEPA	mg/l	29 of 53	0	<0.00001	0.00456	0.00201		0.00001		0.00002		<0.00001	
Dibenz-a-h-anthracene		-	mg/l	No GAC	-	<0.00001	0.015089	0.00077		<0.00001		<0.00001		<0.00001	
Fluoranthene	6.30E-06	EQS	mg/l	32 of 54	32	<0.00001	0.02689	0.00585		**0.00002**		<0.00001		<0.00001	
Fluorene		-	mg/l	No GAC	-	<0.00001	0.00566	0.0025		<0.00001		<0.00001		<0.00001	
Indeno(1,2,3-cd)pyrene		-	mg/l	No GAC	-	<0.00001	0.064903	0.00285		<0.00001		<0.00001		<0.00001	
Phenanthrene		-	mg/l	No GAC	-	<0.00001	0.0206	0.00452		0.00001		<0.00001		<0.00001	
Pyrene		-	mg/l	No GAC	-	<0.00001	0.03087	0.00925		0.00002		0.00001		<0.00001	
Naphthalene (w)	0.002	EQS	mg/l	18 of 54	1	<0.00001	0.013	0.00111		0.00001		0.00001		<0.00001	
Total PAH 16MS (w)		-	mg/l	No GAC	-	<0.00001	0.171	0.03948							
Pah,Total		-	mg/l	No GAC	-	<0.00001	0.359917	0.00172		0.00007		0.00004		<0.00001	
Acenaphthylene		-	mg/l	No GAC	-	<0.00001	0.00215	0.00104		<0.00001		<0.00001		<0.00001	
Anthracene	0.0001	EQS	mg/l	22 of 54	9	<0.00001	0.00443	0.00306		<0.00001		<0.00001		<0.00001	
Benzo(a)anthracene		-	mg/l	No GAC	-	<0.00001	0.01469	0.00367		<0.00001		<0.00001		<0.00001	
Benzo (g,h,i) perylene		-	mg/l	No GAC	-	<0.00001	0.073465	0.00386		<0.00001		<0.00001		<0.00001	
Benzo(a)pyrene	1.7E-07	EQS	mg/l	20 of 54	20	<0.00001	0.049364	0.0041		<0.00001		<0.00001		<0.00001	
Benzo(b)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.054044	0.00491		<0.00001		<0.00001		<0.00001	
Benzo(k)fluoranthene		-	mg/l	No GAC	-	<0.00001	0.021665	0.0013		<0.00001		<0.00001		<0.00001	
Chrysene		-	mg/l	No GAC	-	<0.00001	0.015904	0.00351		<0.00001		<0.00001		<0.00001	
BTEX															
BTEX - Benzene (w)	0.01	EQS	mg/l	2 of 41	0	<0.001	0.008	0.001							
BTEX - Toluene (w)	0.074	EQS	mg/l	0 of 41	0	<0.001	<0.001	0.001							
BTEX - Ethyl Benzene (w)	0.02	EQS*	mg/l	0 of 41	0	<0.001	<0.001	0.001							
BTEX - m & p Xylene (w)	0.03	EQS*	mg/l	2 of 26	0	<0.001	0.003	0.002							
BTEX - o Xylene (w)	0.03	EQS*	mg/l	0 of 26	0	<0.001	<0.001	0.001							
Xylene	0.03	EQS*	mg/l	0 of 17	0	<0.001	<0.001	0.001							
VOC															
1,1,1,2-Tetrachloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001							
1,1,1-Trichloroethane	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001							
1,1,2,2-Tetrachloroethane	0.14	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001							
1,1,2-Trichloroethane	0.4	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001							
1,1-Dichloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001							
1,1-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001							
1,1-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001							
1,2,3 Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003							
1,2,3-Trichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001							
1,2,4-Trichlorobenzene	0.0004	EQS	mg/l	0 of 13	0	<0.001	<0.003	0.003							
1,2,4-Trimethylbenzene			mg/l	No GAC	-	<0.001	0.002	0.0014							
1,2-Dibromo-3-Chloropropane	0.001	WHO	mg/l	0 of 13	0	<0.001	<0.002	0.002							
1,2-Dibromoethane	0.0004	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001							
1,2-Dichlorobenzene	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001							

1,2-Dichloroethane	0.01	EQS	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,2-Dichloropropane	0.04	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
1,3,5-Trimethylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
1,3-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.002	0.002
1,3-Dichloropropane			mg/l	No GAC	-	<0.001	<0.001	0.001
1,4-Dichlorobenzene	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,2-Dichloropropane			mg/l	No GAC	-	<0.001	<0.002	0.002
2-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Isopropyltoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Bromochloromethane			mg/l	No GAC	-	<0.004	<0.005	0.005
Bromodichloromethane	0.06	WHO	mg/l	0 of 13	0	<0.004	<0.01	0.01
Bromoform	0.1	WHO	mg/l	0 of 11	0	<0.001	<0.001	0.001
Bromomethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Disulphide			mg/l	No GAC	-	<0.001	<0.001	0.001
Carbon Tetrachloride	0.012	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Chlorobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Chloroethene	0.0005	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Chloroform	0.0025	EQS	mg/l	1 of 13	0	<0.001	<0.001	0.001
Chloromethane			mg/l	No GAC	-	<0.001	<0.01	0.01
Dibromochloromethane	0.1	WHO	mg/l	0 of 13	0	<0.001	<0.003	0.003
Dibromomethane	0.02	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dichlorodifluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
Dichloromethane	0.02	EQS	mg/l	0 of 11	0	<0.005	<0.027	0.016
Hexachlorobutadiene	0.0006	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
Isopropylbenzene			mg/l	No GAC	-	<0.001	0.005	0.0026
MTBE (w)	0.015	WHO	mg/l	0 of 22	0	<0.001	<0.001	0.001
Sec-Butylbenzene			mg/l	No GAC	-	<0.001	0.004	0.0022
Styrene	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Tert-Butylbenzene			mg/l	No GAC	-	<0.001	<0.002	0.002
Tetrachloroethene	0.01	DWS	mg/l	2 of 13	0	<0.001	0.003	0.0024
Trichloroethene	0.01	DWS	mg/l	0 of 11	0	<0.001	<0.001	0.001
Trichlorofluoromethane			mg/l	No GAC	-	<0.001	<0.001	0.001
cis 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
cis 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 10	0	<0.001	<0.001	0.001
n-Butylbenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
n-propylbenzene			mg/l	No GAC	-	<0.001	0.003	0.0018
trans 1,2-Dichloroethene	0.05	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
trans 1,3-Dichloropropene	0.02	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
SVOC								
2,4,5-Trichlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,4,6-Trichlorophenol	0.2	WHO	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dichlorophenol	0.0042	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dimethylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,4-Dinitrotoluene	0.1	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
2,6-Dinitrotoluene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chloronaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Chlorophenol	0.05	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Methylnaphthalene			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Methylphenol	0.1	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
2-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Bromophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chloro-3-Methylphenol	0.04	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
4-Nitrophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethoxy)methane			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroethyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl)phthalate	0.0013	EQS	mg/l	1 of 13	0	<0.001	<0.01	0.01
Butylbenzyl phthalate	0.0075	EQS	mg/l	0 of 13	0	<0.001	<0.001	0.001
Carbazole			mg/l	No GAC	-	<0.001	<0.001	0.001
Di-N-Butyl Phthalate	0.008	EQS*	mg/l	1 of 13	0	<0.001	0.004	0.0022

Di-N-Octyl Phthalate	0.02	EQS*	mg/l	0 of 13	0	<0.001	<0.01	0.01
Dibenzofuran			mg/l	No GAC	-	<0.001	<0.001	0.001
Diethyl phthalate	0.2	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Dimethyl phthalate	0.8	EQS*	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachlorobenzene	0.001	USEPA	mg/l	0 of 15	0	<0.0001	<0.001	0.001
Hexachlorocyclopentadiene	0.05	USEPA	mg/l	0 of 13	0	<0.001	<0.001	0.001
Hexachloroethane	0.04	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Isophorone	7	USEPA	mg/l	0 of 10	0	<0.001	<0.001	0.001
Nitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
PCP; (Pentachlorophenol) (w)	0.0004	EQS	mg/l	0 of 15	0	<0.00002	<0.001	0.001
n-Nitroso-n-dipropylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Herbicides								
Ametryne (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atraton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Atrazine (w)	0.0006	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Prometryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Propazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simazine (w)	0.001	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Simetryn (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Terbuthylazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,3,6-TBA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-T (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4,5-TP; (Fenoprop); (Silvex) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-D (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
2,4-DP; (Dichlorprop)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
4-CPA (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Benazolin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bentazone (w)	0.5	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromoxynil (w)	0.1	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Clopyralid (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Dicamba (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diclofop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Flamprop-isopropyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Ioxynil (w)	0.01	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPA (w)	0.012	EQS*	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPB (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
MCPP; (Mecoprop) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Picloram (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Triclopyr (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Bromacil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Carbetamide (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorbufam (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpropham (w)	0.01	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlortoluron (w)	0.002	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Cyanazine (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Diuron (w)	0.0002	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Isoproturon (w)	0.0003	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Linuron (w)	0.0005	EQS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Monuron (w)	0.0001	DWS	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Pirimicarb (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propham (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cyfluthrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Cypermethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Deltamethrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenvalerate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pesticides								
Aldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorothalonil (w)	0.000035	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001

Dichlobenil (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dieldrin (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan I (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan II (Beta) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endosulphan Sulphate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Endrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor (w)	0	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Heptachlor epoxide (w)	0.00003	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Isodrin (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pendimethalin (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Permethrin II (trans) (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Quintozene (PCNB) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Tecnazene (w)	0.001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triadimefon (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triallate (w)	0.00025	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Trifluralin (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
alpha-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
beta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
cis-Chlordane (Alpha) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
delta-Hexachlorocyclohexane (HCH) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
gamma-Hexachlorocyclohexane (HCH / L	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDD (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDE (2,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-DDT (2,4) (w)	0.000025	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
o,p-Methoxychlor (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDE (4,4) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
p,p-DDT (4,4) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
trans-Chlordane (Gamma) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-ethyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Azinphos-methyl (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Carbophenothion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorfenvinphos (w)	0.0001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos (w)	0.00003	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Chlorpyrifos-methyl (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Coumaphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Diazinon (Dimpylate) (w)	0.00001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dichlorvos (w)	0.000001	EQS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Dimethoate (w)	0.00048	EQS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Disulfoton (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Ethion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenitrothion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Fenthion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Malathion (w)	0.00001	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Methyl Parathion (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Mevinphos (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0005	<0.0005	0.0005
Parathion (Ethyl Parathion) (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phorate (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Phosalone (w)	0.0001	DWS	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Pirimiphos-methyl (w)	0.000015	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Propetamphos (w)	0.00003	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Triazophos (w)	0.000005	EQS*	mg/l	0 of 2	0	<0.0001	<0.0001	0.0001
Other								
2,3,4,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2,3,5,6-Tetrachlorophenol			mg/l	No GAC	-	<0.001	<0.001	0.001
2-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
3+4-Methylphenol			mg/l	No GAC	-	<0.001	<0.001	0.001
3-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Chlorophenyl Phenyl Ether			mg/l	No GAC	-	<0.001	<0.001	0.001
4-Nitroaniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Aliphatics >C10-44			mg/l	No GAC	-	<0.001	<0.001	0.001
Alkalinity (total) (w) Colorimetry			mg/l CaCO3	No GAC	-	294	294	294.0
Aluminium (dissolved)	15	EQS*	mg/l	1 of 2	0	<0.01	13.6	12.921

Aniline			mg/l	No GAC	-	<0.001	<0.001	0.001
Azobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Benzyl Alcohol			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-chloroisopropyl)ether			mg/l	No GAC	-	<0.001	<0.001	0.001
Bis(2-ethylhexyl) adipate			mg/l	No GAC	-	<0.001	<0.001	0.001
Cobalt (dissolved)	3	EQS*	mg/l	4 of 4	0	0.014	0.035	0.03455
Cyhalothrin-lambda (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Demeton-S (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Diflubenzuron (w)	0.001	EQS*	mg/l	0 of 2	0	<0.00005	<0.00005	0.00005
Diphenylamine			mg/l	No GAC	-	<0.001	<0.001	0.001
Ecoli (Faecal Coliforms) (w)	0	EUDWS	cfu/100ml	0 of 1	0	<1	<1	1.0
Endrin Aldehyde (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Endrin Ketone (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fensulphothion (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Fluroxypyr (w)			mg/l	No GAC	-	<0.00002	<0.00002	0.00002
Intestinal Enterococci (Faecal Streptococci/Faecal Enterococci)			cfu/100ml	No GAC	-	5	5	5.0
Iron (Soluble)			mg/l	No GAC	-	0.0066	3	2.448
M-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Methabenzthiazuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Monolinuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Naphthalene1-methyl-			mg/l	No GAC	-	<0.001	<0.001	0.001
Naphthols (2-Naphthalenesulfonic acid, 1-hydroxy-)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
P-Dinitrobenzene			mg/l	No GAC	-	<0.001	<0.001	0.001
Perylene			mg/l	No GAC	-	<0.001	<0.001	0.001
Resorcinol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Silver (dissolved)	0.05	EQS*	mg/l	0 of 2	0	<0.001	<0.001	0.001
Telodrin (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Terbutryn (w)	0.065	EQS	mg/l	0 of 2	0	<0.00002	<0.00002	0.00002
Tin (dissolved)	25	EQS*	mg/l	1 of 2	0	<0.001	0.017	0.0162
Trichloronate (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Trimethylphenol			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Xylenols & Ethylphenols			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Chloroxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Demeton-O (w)			mg/l	No GAC	-	<0.0005	<0.0005	0.0005
Dimefuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Ethiofencarb (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Metoxuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Pencycuron (w)			mg/l	No GAC	-	<0.00005	<0.00005	0.00005
Permethrin I (cis) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Phenmedipham (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
Prothiofos (Tokuthion) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-DDD (4,4) (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
p,p-Methoxychlor (w)			mg/l	No GAC	-	<0.0001	<0.0001	0.0001
cis1,3-Dichloropropene			mg/l	No GAC	-	<0.001	<0.001	0.001

Appendix D - Hazardous waste assessment

ARUP

HazWasteOnline™

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

05IDW-X2YFB-MJ761

Job name

Victoria North GIR Phase 3

Description/Comments

Project

Victoria North

Site

Classified by

Name:
Tom Hartley
Company:
Ove Arup
Date:
01 Aug 2022 14:00 GMT
Telephone:

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	18 Jun 2019
Most recent 3 year Refresher	02 Aug 2022 *

* training course booked

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH311	5	Non Hazardous		6
2	BH312	1	Non Hazardous		9
3	BH314	7.5	Hazardous	HP 7	12
4	BH315	0.5	Non Hazardous		15
5	01_BH101	4.8	Non Hazardous		18
6	01_BH101[2]	0.8	Hazardous	HP 3(i), HP 7, HP 11	20
7	01_BH102	3.5	Hazardous	HP 3(i), HP 7, HP 11	23
8	01_BH102[2]	0.3	Non Hazardous		26
9	01_BH103	3.2	Non Hazardous		29
10	01_BH103[2]	0.3	Non Hazardous		31
11	01_BH103[3]	1	Hazardous	HP 3(i), HP 7, HP 11	34
12	01_BH103[4]	4.8	Non Hazardous		36
13	01_BH104	4.7	Non Hazardous		38
14	01_BH104[2]	9.7	Non Hazardous		40
15	01_BH104[3]	0.7	Non Hazardous		43
16	01_BH105	3.3	Non Hazardous		45
17	01_BH105[2]	0.7	Non Hazardous		48
18	01_BH106	7.6	Non Hazardous		50
19	01_BH106[2]	0.3	Non Hazardous		52
20	01_BH106[3]	3.3	Non Hazardous		55
21	01_BH107	2	Non Hazardous		58
22	01_BH109	1.2	Non Hazardous		60
23	01_BH110	3	Hazardous	HP 7	63
24	01_BH110[2]	0.3	Non Hazardous		66
25	01_BH112	3.3	Non Hazardous		69
26	01_BH112[2]	0.3	Non Hazardous		71
27	01_TP101	0.3	Non Hazardous		73
28	01_TP102	1.2	Non Hazardous		75
29	01_TP102[2]	0.3	Non Hazardous		77

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
30	01_TP103	1.8	Non Hazardous		80
31	01_TP103[2]	1	Non Hazardous		82
32	01_TP104	0.3	Non Hazardous		84
33	01_TP105	0.3	Non Hazardous		86
34	01_TP105[2]	1.3	Non Hazardous		88
35	01_TP106	0.4	Non Hazardous		91
36	01_TP106[2]	2.8	Non Hazardous		94
37	01_TP107	1.2	Non Hazardous		96
38	01_TP108	0.3	Non Hazardous		98
39	01_TP109	0.3	Hazardous	HP 7	101
40	01_TP109[2]	1.3	Non Hazardous		104
41	01_TP109[3]	3.3	Non Hazardous		106
42	01_TP110	1.3	Non Hazardous		108
43	01_TP111	2.5	Non Hazardous		110
44	01_TP111[2]	0.3	Non Hazardous		112
45	01_TP112	0.3	Non Hazardous		114
46	01_TP112[2]	2.3	Non Hazardous		116
47	01_TP115	0.3	Non Hazardous		118
48	01_TP115[2]	1.3	Non Hazardous		120
49	01_TP115[3]	3.3	Non Hazardous		122
50	01_TP119	3	Non Hazardous		124
51	01_TP119[2]	0.2	Non Hazardous		126
52	01_TP120	1	Non Hazardous		129
53	01_TP120[2]	0.3	Hazardous	HP 7	131
54	01_TP121	0.3	Non Hazardous		134
55	01_TP121[2]	2.3	Non Hazardous		136
56	01_TP122	0.3	Non Hazardous		138
57	01_TP124	3.2	Non Hazardous		140
58	01_TP124[2]	0.3	Hazardous	HP 7, HP 10, HP 14	142
59	01_TP125	0.3	Non Hazardous		145
60	01_TP126	0.3	Non Hazardous		147
61	01_TP126[2]	2.2	Non Hazardous		150
62	01_TP127	0.3	Non Hazardous		152
63	01_WS101	0.3	Non Hazardous		155
64	01_WS102	1	Non Hazardous		157
65	01_WS103	1	Non Hazardous		160
66	01_WS104	1	Non Hazardous		163
67	01_WS105	0.3	Non Hazardous		166
68	01_WS106	1	Non Hazardous		168
69	BAL01		Non Hazardous		171
70	BAL02		Non Hazardous		174
71	BAL03		Non Hazardous		177
72	BH301	1	Non Hazardous		180
73	BH301[2]	9.2	Non Hazardous		183
74	BH301C	1.7	Non Hazardous		184
75	BH301D	2	Non Hazardous		187
76	BH301D[2]	2.9	Non Hazardous		188
77	BH302	12	Non Hazardous		191
78	BH302[2]	2	Non Hazardous		194
79	BH303	0.5	Non Hazardous		195
80	BH303[2]	7.5	Non Hazardous		198
81	BH304	5	Non Hazardous		199
82	BH304[2]	0.5	Non Hazardous		202
83	BH304[3]	1	Non Hazardous		205
84	BH304[4]	14	Non Hazardous		206
85	BH304[5]	13	Non Hazardous		207
86	BH305	0.5	Non Hazardous		210
87	BH305[2]	1	Non Hazardous		211
88	BH306	0.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	214
89	BH306[2]	1	Hazardous	HP 3(i), HP 7, HP 11	217
90	BH307	1	Non Hazardous		218
91	BH308	0.5	Non Hazardous		221
92	BH308[2]	1	Hazardous	HP 7	222
93	BH309	0.5	Non Hazardous		225
94	BH309[2]	1	Non Hazardous		226
95	BH310	5.2	Non Hazardous		229

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
96	BH310[2]	3.4	Non Hazardous		232
97	BH310[3]	2.5	Non Hazardous		233
98	BH313	0.5	Non Hazardous		234
99	BH313[2]	1	Non Hazardous		237
100	BH320	4.35	Non Hazardous		238
101	BH320[2]	6	Non Hazardous		239
102	BH322	1	Non Hazardous		242
103	BH323	0.3	Non Hazardous		243
104	BH323[2]	0.5	Hazardous	HP 3(i), HP 7, HP 11	244
105	BH324	5	Non Hazardous		247
106	BH324[2]	1	Non Hazardous		248
107	BH326	1.4	Non Hazardous		251
108	BH326[2]	3.4	Non Hazardous		254
109	BH327	2.4	Non Hazardous		255
110	BH327[2]	7.4	Hazardous	HP 7	256
111	BH328	1.4	Non Hazardous		259
112	BH328[2]	2.4	Non Hazardous		260
113	GEO_BH201	0.3	Non Hazardous		263
114	GEO_BH202	2.2	Non Hazardous		265
115	GEO_BH202[2]	1.2	Non Hazardous		267
116	GEO_BH203	11.7	Hazardous	HP 14	270
117	GEO_BH203[2]	0.5	Non Hazardous		272
118	GEO_BH203[3]	1.2	Non Hazardous		274
119	GEO_BH203[4]	6.2	Non Hazardous		275
120	GEO_BH204	1.2	Non Hazardous		278
121	GEO_BH205	1.8	Non Hazardous		280
122	GEO_BH205[2]	2.8	Non Hazardous		282
123	GEO_BH206	3.2	Non Hazardous		284
124	GEO_BH206[2]	1.2	Non Hazardous		286
125	GEO_BH207	1.2	Non Hazardous		288
126	GEO_BH207[2]	2.2	Non Hazardous		290
127	GEO_BH207[3]	5.2	Non Hazardous		291
128	GEO_BH207[4]	10.2	Non Hazardous		293
129	GEO_BH207[5]	13.2	Non Hazardous		295
130	GEO_BH208	0.3	Non Hazardous		297
131	GEO_BH208[2]	4.2	Non Hazardous		299
132	GEO_BH208[3]	8.2	Non Hazardous		301
133	GEO_BH209	1.2	Non Hazardous		303
134	GEO_BH209[2]	2.5	Non Hazardous		305
135	GEO_BH210	4.2	Non Hazardous		307
136	GEO_BH210[2]	1.2	Non Hazardous		309
137	GEO_BH211A	2.2	Non Hazardous		312
138	GEO_BH211A[2]	5.2	Non Hazardous		315
139	GEO_BH211A[3]	9	Non Hazardous		317
140	GEO_BH211A[4]	10.5	Non Hazardous		319
141	GEO_BH212	0.4	Non Hazardous		322
142	GEO_BH212[2]	2.2	Non Hazardous		325
143	GEO_BH212A	0.6	Non Hazardous		327
144	GEO_BH213	1.2	Hazardous	HP 3(i), HP 7, HP 11	330
145	GEO_BH214	1.1	Non Hazardous		333
146	GEO_BH214A	2.2	Non Hazardous		336
147	GEO_BH215	2.2	Non Hazardous		339
148	GEO_BH215[2]	1.1	Non Hazardous		341
149	GEO_TP201	2	Non Hazardous		343
150	GEO_TP201[2]	0.3	Non Hazardous		345
151	GEO_TP202	0.3	Non Hazardous		347
152	GEO_TP202C	0.3	Non Hazardous		350
153	GEO_TP203	1	Non Hazardous		353
154	GEO_TP203[2]	2	Non Hazardous		355
155	GEO_TP203[3]	4	Non Hazardous		357
156	GEO_TP204	3	Non Hazardous		359
157	GEO_TP205	1	Non Hazardous		362
158	GEO_TP205[2]	2	Non Hazardous		363
159	GEO_TP206	0.3	Non Hazardous		365
160	GEO_TP206A	2	Non Hazardous		368
161	GEO_TP207	1	Non Hazardous		371

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
162	GEO_TP208	2	Non Hazardous		373
163	GEO_TP208[2]	4	Non Hazardous		375
164	GEO_TP209	1	Non Hazardous		377
165	GEO_TP210	3	Non Hazardous		380
166	GEO_TP210[2]	0.3	Non Hazardous		382
167	GEO_TP210[3]	1	Non Hazardous		385
168	GEO_TP211	3.1	Non Hazardous		387
169	GEO_TP211[2]	1	Non Hazardous		389
170	GEO_TP211[3]	0.3	Non Hazardous		390
171	GEO_TP212	0.3	Non Hazardous		392
172	GEO_TP212[2]	1	Non Hazardous		393
173	GEO_TP212[3]	3	Non Hazardous		396
174	GEO_TP213	2	Non Hazardous		398
175	GEO_TP213[2]	4	Non Hazardous		401
176	GEO_TP213[3]	0.3	Non Hazardous		404
177	GEO_TP214	1	Non Hazardous		406
178	GEO_TP214[2]	3	Non Hazardous		408
179	GEO_TP215	2	Non Hazardous		410
180	GEO_TP216	1	Non Hazardous		412
181	GEO_TP216[2]	3	Non Hazardous		414
182	GEO_TP217	3	Non Hazardous		416
183	GEO_TP217[2]	1	Non Hazardous		418
184	GEO_TP218	2	Non Hazardous		420
185	GEO_TP219	3.7	Non Hazardous		422
186	GEO_TP219[2]	1	Non Hazardous		424
187	GEO_WS201	1	Non Hazardous		426
188	GEO_WS202	5	Non Hazardous		428
189	GEO_WS202[2]	0.3	Non Hazardous		430
190	GEO_WS202[3]	0.5	Non Hazardous		431
191	GEO_WS202[4]	2	Non Hazardous		433
192	GEO_WS204	1	Non Hazardous		435
193	GEO_WS204[2]	3	Non Hazardous		436
194	GEO_WS205	0.2	Non Hazardous		438
195	GEO_WS205[2]	2	Hazardous	HP 7	440
196	GEO_WS205[3]	3	Non Hazardous		443
197	GEO_WS206	4	Non Hazardous		444
198	GEO_WS206[2]	1	Non Hazardous		446
199	GEO_WS206[3]	2	Non Hazardous		448
200	GEO_WS207	1	Non Hazardous		449
201	GEO_WS207[2]	3	Non Hazardous		451
202	GEO_WS207[3]	5	Non Hazardous		453
203	GEO_WS208	2	Non Hazardous		455
204	GEO_WS209	2	Non Hazardous		458
205	GEO_WS209[2]	3	Non Hazardous		460
206	GEO_WS209[3]	0.3	Hazardous	HP 3(i), HP 7, HP 11	462
207	GEO_WS210	0.3	Non Hazardous		465
208	GEO_WS210[2]	0.7	Non Hazardous		466
209	GEO_WS211	4	Non Hazardous		468
210	GEO_WS211[2]	5	Non Hazardous		470
211	GEO_WS212	0.2	Non Hazardous		472
212	GEO_WS212[2]	0.6	Non Hazardous		475
213	GEO_WS212[3]	4	Non Hazardous		476
214	GEO_WS213A	1	Non Hazardous		478
215	GEO_WS213A[2]	2	Non Hazardous		480
216	GEO_WS214	2	Non Hazardous		482
217	OP01	0.1	Non Hazardous		484
218	OP03	0.1	Non Hazardous		487
219	SoilSamp02		Non Hazardous		490
220	SoilSamp04		Non Hazardous		492
221	SoilSamp05		Non Hazardous		494
222	SoilSamp07		Non Hazardous		496
223	SoilSamp09		Non Hazardous		498
224	SoilSamp10		Non Hazardous		500
225	SoilSamp11		Non Hazardous		502
226	TP304	1.2	Non Hazardous		504
227	TP304[2]	2.45	Non Hazardous		507

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
228	TP305	1	Non Hazardous		508
229	TP305[2]	2	Non Hazardous		509
230	TP305[3]	3	Non Hazardous		510
231	TP306	0.5	Non Hazardous		513
232	TP307	2	Non Hazardous		516
233	TP308	1	Non Hazardous		519
234	TP309	1	Non Hazardous		521
235	TP310	1	Non Hazardous		523
236	TT301	1.2	Non Hazardous		525
237	TT301[2]	2.45	Hazardous	HP 3(i), HP 7, HP 11	526
238	TT302	0.3	Hazardous	HP 3(i), HP 7, HP 11	529
239	TT302[2]	0.8	Hazardous	HP 3(i), HP 7, HP 11	532
240	TT303	0.35	Hazardous	HP 3(i), HP 7, HP 10, HP 11, HP 14	533

Related documents

#	Name	Description
1	Victoria North	waste stream template used to create this Job

Report

Created by: Tom Hartley

Created date: 01 Aug 2022 14:00 GMT

Appendices	Page
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Appendix B: Rationale for selection of metal species	537
Appendix C: Version	538

Classification of sample: BH311

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH311
Sample Depth:
5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3 mg/kg		3 mg/kg	0.0003 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		0.9 mg/kg	1.462	1.315 mg/kg	0.000132 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				19	mg/kg	1.252	23.784	mg/kg	0.00238 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	14	mg/kg		14	mg/kg	0.0014 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		nickel { nickel }			7	26	mg/kg		26	mg/kg	0.0026 %		
		028-002-00-7	231-111-4	7440-02-0									
26		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
27		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
28		pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
			204-927-3	129-00-0									
29		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
30		toluene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
31		TPH (C6 to C40) petroleum group				10	mg/kg		10	mg/kg	0.001 %		
				TPH									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				49	mg/kg	1.245	60.991	mg/kg	0.0061 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				25	mg/kg	2.27	56.75	mg/kg	0.00568 %		
		024-017-00-8											
										Total:	0.0257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.001%)

Classification of sample: BH312

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH312	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.03	mg/kg		0.03	mg/kg	0.000003 %		
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.08	mg/kg		0.08	mg/kg	0.000008 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5	mg/kg		5	mg/kg	0.0005 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11	mg/kg		11	mg/kg	0.0011 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.24	mg/kg		0.24	mg/kg	0.000024 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27	mg/kg		0.27	mg/kg	0.000027 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.34	mg/kg		0.34	mg/kg	0.000034 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.35	mg/kg		0.35	mg/kg	0.000035 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.2	mg/kg		1.2	mg/kg	0.00012 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.2	mg/kg	1.462	1.754	mg/kg	0.000175 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				45	mg/kg	1.252	56.33	mg/kg	0.00563 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			205-912-4	206-44-0									
21		fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	160	mg/kg		160	mg/kg	0.016 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		nickel { nickel }			7	13	mg/kg		13	mg/kg	0.0013 %		
		028-002-00-7	231-111-4	7440-02-0									
26		phenanthrene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			201-581-5	85-01-8									
27		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
28		pyrene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			204-927-3	129-00-0									
29		selenium { selenium }				2	mg/kg		2	mg/kg	0.0002 %		
		034-001-00-2	231-957-4	7782-49-2									
30		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
31		TPH (C6 to C40) petroleum group				84	mg/kg		84	mg/kg	0.0084 %		
				TPH									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				165	mg/kg	1.245	205.378	mg/kg	0.0205 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				12	mg/kg	2.27	27.24	mg/kg	0.00272 %		
		024-017-00-8											
										Total:	0.0611 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0084%)

Classification of sample: BH314

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
BH314
Sample Depth:
7.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.225%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.26 mg/kg		0.26 mg/kg	0.000026 %		
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.41 mg/kg		0.41 mg/kg	0.000041 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	18 mg/kg		18 mg/kg	0.0018 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		15 mg/kg		15 mg/kg	0.0015 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.38 mg/kg		0.38 mg/kg	0.000038 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.31 mg/kg		0.31 mg/kg	0.000031 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.26 mg/kg		0.26 mg/kg	0.000026 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	1.8 mg/kg		1.8 mg/kg	0.00018 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.8	mg/kg	1.462	2.631	mg/kg	0.000263 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.43	mg/kg		0.43	mg/kg	0.000043 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		144	mg/kg	1.252	180.256	mg/kg	0.018 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.07	mg/kg		1.07	mg/kg	0.000107 %		
21		fluorene		201-695-5	86-73-7		0.23	mg/kg		0.23	mg/kg	0.000023 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	2250	mg/kg		2250	mg/kg	0.225 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.12	mg/kg		1.12	mg/kg	0.000112 %		
25		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	34	mg/kg		34	mg/kg	0.0034 %		
26		phenanthrene		201-581-5	85-01-8		1.41	mg/kg		1.41	mg/kg	0.000141 %		
27		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
28		pyrene		204-927-3	129-00-0		1.07	mg/kg		1.07	mg/kg	0.000107 %		
29		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		2	mg/kg		2	mg/kg	0.0002 %		
30		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
31		TPH (C6 to C40) petroleum group			TPH		233	mg/kg		233	mg/kg	0.0233 %		
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35	mg/kg	1.785	62.481	mg/kg	0.00625 %		
33		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		111	mg/kg	1.245	138.163	mg/kg	0.0138 %		
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				24	mg/kg	2.27	54.48	mg/kg	0.00545 %		
											Total:	0.301 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0233%)

Classification of sample: BH315

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH315	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.02	mg/kg		0.02	mg/kg	0.000002 %		
2		acenaphthylene		205-917-1	208-96-8		0.18	mg/kg		0.18	mg/kg	0.000018 %		
3		anthracene		204-371-1	120-12-7		0.16	mg/kg		0.16	mg/kg	0.000016 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3	mg/kg		3	mg/kg	0.0003 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		1.15	mg/kg		1.15	mg/kg	0.000115 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.56	mg/kg		0.56	mg/kg	0.000056 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.88	mg/kg		0.88	mg/kg	0.000088 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.65	mg/kg		0.65	mg/kg	0.000065 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5	mg/kg		0.5	mg/kg	0.00005 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		0.5	mg/kg	1.462	0.731	mg/kg	0.0000731 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.69	mg/kg		0.69	mg/kg	0.000069 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		27	mg/kg	1.252	33.798	mg/kg	0.00338 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.13	mg/kg		0.13	mg/kg	0.000013 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.56	mg/kg		0.56	mg/kg	0.000056 %		
21		fluorene		201-695-5	86-73-7		0.04	mg/kg		0.04	mg/kg	0.000004 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.77	mg/kg		0.77	mg/kg	0.000077 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	155	mg/kg		155	mg/kg	0.0155 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	15	mg/kg		15	mg/kg	0.0015 %		
26		phenanthrene		201-581-5	85-01-8		0.42	mg/kg		0.42	mg/kg	0.000042 %		
27		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
28		pyrene		204-927-3	129-00-0		1.57	mg/kg		1.57	mg/kg	0.000157 %		
29		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
30		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
31		TPH (C6 to C40) petroleum group			TPH		153	mg/kg		153	mg/kg	0.0153 %		
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		14	mg/kg	1.785	24.993	mg/kg	0.0025 %		
33		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		51	mg/kg	1.245	63.48	mg/kg	0.00635 %		
34		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		295	mg/kg	2.749	810.826	mg/kg	0.0811 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				12	mg/kg	2.27	27.24	mg/kg	0.00272 %		
											Total:	0.131 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0153%)

Classification of sample: 01_BH101

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH101
Sample Depth:
4.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.5 mg/kg		9.5 mg/kg	0.00095 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				28	mg/kg	1.252	35.05	mg/kg	0.0035 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	53	mg/kg		53	mg/kg	0.0053 %		
		082-001-00-6											
24		mercury { mercury }				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	25	mg/kg		25	mg/kg	0.0025 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				61	mg/kg	1.245	75.928	mg/kg	0.00759 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH101[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
01_BH101[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.8 m	Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.17 mg/kg		0.17 mg/kg	0.000017 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		2.2 mg/kg		2.2 mg/kg	0.00022 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.2 mg/kg		5.2 mg/kg	0.00052 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.18	mg/kg		0.18	mg/kg	0.000018 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.49	mg/kg		0.49	mg/kg	0.000049 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.26	mg/kg		0.26	mg/kg	0.000026 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.46	mg/kg		0.46	mg/kg	0.000046 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6	mg/kg	5.719	3.432	mg/kg	0.000343 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9	mg/kg		0.9	mg/kg	0.00009 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.7	mg/kg	1.462	8.331	mg/kg	0.000833 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.72	mg/kg		0.72	mg/kg	0.000072 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		50	mg/kg	1.252	62.589	mg/kg	0.00626 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		3.3	mg/kg		3.3	mg/kg	0.00033 %		
21		fluorene		201-695-5	86-73-7		0.13	mg/kg		0.13	mg/kg	0.000013 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.14	mg/kg		0.14	mg/kg	0.000014 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	38	mg/kg		38	mg/kg	0.0038 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.16	mg/kg		0.16	mg/kg	0.000016 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.17	mg/kg		0.17	mg/kg	0.000017 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	7.9	mg/kg		7.9	mg/kg	0.00079 %		
27		phenanthrene		201-581-5	85-01-8		0.72	mg/kg		0.72	mg/kg	0.000072 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		2.5	mg/kg		2.5	mg/kg	0.00025 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				1165.4	mg/kg		1165.4	mg/kg	0.117 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				12	mg/kg	1.785	21.422	mg/kg	0.00214 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				46	mg/kg	1.245	57.257	mg/kg	0.00573 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.139 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH102

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH102	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.11 mg/kg		0.11 mg/kg	0.000011 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		**<LOD**
3		anthracene		204-371-1	120-12-7		0.08 mg/kg		0.08 mg/kg	0.000008 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.3 mg/kg		9.3 mg/kg	0.00093 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.07	mg/kg		0.07	mg/kg	0.000007 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8	mg/kg		0.8	mg/kg	0.00008 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5	mg/kg	5.719	2.86	mg/kg	0.000286 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.08	mg/kg		0.08	mg/kg	0.000008 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		27	mg/kg	1.252	33.798	mg/kg	0.00338 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.17	mg/kg		0.17	mg/kg	0.000017 %		
21		fluorene		201-695-5	86-73-7		0.13	mg/kg		0.13	mg/kg	0.000013 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	91	mg/kg		91	mg/kg	0.0091 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.17	mg/kg		0.17	mg/kg	0.000017 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	19	mg/kg		19	mg/kg	0.0019 %		
27		phenanthrene		201-581-5	85-01-8		0.28	mg/kg		0.28	mg/kg	0.000028 %		
28		monohydric phenols			P1186		0.9	mg/kg		0.9	mg/kg	0.00009 %		
29		pyrene		204-927-3	129-00-0		0.19	mg/kg		0.19	mg/kg	0.000019 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				1133.2	mg/kg		1133.2	mg/kg	0.113 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				22	mg/kg	1.785	39.274	mg/kg	0.00393 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				88	mg/kg	1.245	109.535	mg/kg	0.011 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.147 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH102[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH102[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.65 mg/kg		0.65 mg/kg	0.000065 %		
2	acenaphthylene		205-917-1	208-96-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
3	anthracene		204-371-1	120-12-7		0.96 mg/kg		0.96 mg/kg	0.000096 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	7.6 mg/kg		7.6 mg/kg	0.00076 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		16 mg/kg		16 mg/kg	0.0016 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.94 mg/kg		0.94 mg/kg	0.000094 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.1 mg/kg		2.1 mg/kg	0.00021 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.4 mg/kg		2.4 mg/kg	0.00024 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.4 mg/kg		2.4 mg/kg	0.00024 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1 mg/kg		1 mg/kg	0.0001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				2	mg/kg		2	mg/kg	0.0002 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				140	mg/kg	1.252	175.249	mg/kg	0.0175 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
			205-912-4	206-44-0									
21		fluorene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	530	mg/kg		530	mg/kg	0.053 %		
		082-001-00-6											
24		mercury { mercury }				0.44	mg/kg		0.44	mg/kg	0.000044 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	26	mg/kg		26	mg/kg	0.0026 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				466.7	mg/kg		466.7	mg/kg	0.0467 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				36	mg/kg	1.785	64.267	mg/kg	0.00643 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				500	mg/kg	1.245	622.357	mg/kg	0.0622 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.198 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0467%)

Classification of sample: 01_BH103

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH103	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.05	mg/kg		0.05	mg/kg	0.000005 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3	mg/kg		1.3	mg/kg	0.00013 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.1	mg/kg		6.1	mg/kg	0.00061 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.06	mg/kg		0.06	mg/kg	0.000006 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.06	mg/kg		0.06	mg/kg	0.000006 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2	mg/kg	5.719	6.863	mg/kg	0.000686 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.06	mg/kg		0.06	mg/kg	0.000006 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		46	mg/kg	1.252	57.582	mg/kg	0.00576 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.17	mg/kg		0.17	mg/kg	0.000017 %		
21		fluorene		201-695-5	86-73-7		0.04	mg/kg		0.04	mg/kg	0.000004 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	28	mg/kg		28	mg/kg	0.0028 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22	mg/kg		22	mg/kg	0.0022 %		
27		phenanthrene		201-581-5	85-01-8		0.2	mg/kg		0.2	mg/kg	0.00002 %		
28		monohydric phenols			P1186		0.4	mg/kg		0.4	mg/kg	0.00004 %		
29		pyrene		204-927-3	129-00-0		0.16	mg/kg		0.16	mg/kg	0.000016 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22	mg/kg	1.785	39.274	mg/kg	0.00393 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		99	mg/kg	1.245	123.227	mg/kg	0.0123 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH103[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH103[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.3 mg/kg		0.3 mg/kg	0.00003 %		
2	acenaphthylene		205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
3	anthracene		204-371-1	120-12-7		0.44 mg/kg		0.44 mg/kg	0.000044 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5 mg/kg		5 mg/kg	0.0005 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.5 mg/kg		9.5 mg/kg	0.00095 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.12 mg/kg		0.12 mg/kg	0.000012 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.29 mg/kg		0.29 mg/kg	0.000029 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.2 mg/kg		0.2 mg/kg	0.00002 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2.3 mg/kg	5.719	13.154 mg/kg	0.00132 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.35	mg/kg		0.35	mg/kg	0.000035 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		100	mg/kg	1.252	125.178	mg/kg	0.0125 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.03	mg/kg		0.03	mg/kg	0.000003 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.1	mg/kg		1.1	mg/kg	0.00011 %		
21		fluorene		201-695-5	86-73-7		0.52	mg/kg		0.52	mg/kg	0.000052 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.09	mg/kg		0.09	mg/kg	0.000009 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	230	mg/kg		230	mg/kg	0.023 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.29	mg/kg		0.29	mg/kg	0.000029 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.62	mg/kg		0.62	mg/kg	0.000062 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	17	mg/kg		17	mg/kg	0.0017 %		
27		phenanthrene		201-581-5	85-01-8		1.4	mg/kg		1.4	mg/kg	0.00014 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1	mg/kg		1	mg/kg	0.0001 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		459.8	mg/kg		459.8	mg/kg	0.046 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		21	mg/kg	1.785	37.489	mg/kg	0.00375 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		300	mg/kg	1.245	373.414	mg/kg	0.0373 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.131 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.046%)

Classification of sample: 01_BH103[3]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH103[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.8 mg/kg		4.8 mg/kg	0.00048 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
5		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
6		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.8 mg/kg		0.8 mg/kg	0.00008 %		
7		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
8		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		140 mg/kg	1.252	175.249 mg/kg	0.0175 %		
9		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
10		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
11		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	210 mg/kg		210 mg/kg	0.021 %		
12		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.26 mg/kg		0.26 mg/kg	0.000026 %		
13		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	20 mg/kg		20 mg/kg	0.002 %		
14		monohydric phenols			P1186		0.4 mg/kg		0.4 mg/kg	0.00004 %		
15		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		**<LOD**
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
17		TPH (C6 to C40) petroleum group			TPH		1700 mg/kg		1700 mg/kg	0.17 %		
18		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24 mg/kg	1.785	42.844 mg/kg	0.00428 %		
19		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		250 mg/kg	1.245	311.178 mg/kg	0.0311 %		
									Total:	0.251 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH103[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH103[4]
Sample Depth:
4.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				9.1	mg/kg	1.252	11.391	mg/kg	0.00114 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	13	mg/kg		13	mg/kg	0.0013 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				69	mg/kg	1.245	85.885	mg/kg	0.00859 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0251 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH104

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH104
Sample Depth:
4.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.2 mg/kg		8.2 mg/kg	0.00082 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				33	mg/kg	1.252	41.309	mg/kg	0.00413 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	42	mg/kg		42	mg/kg	0.0042 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	24	mg/kg		24	mg/kg	0.0024 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				79	mg/kg	1.245	98.332	mg/kg	0.00983 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0301 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH104[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH104[2]
Sample Depth:
9.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.06 mg/kg		0.06 mg/kg	0.000006 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.8 mg/kg		1.8 mg/kg	0.00018 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		19 mg/kg		19 mg/kg	0.0019 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.11 mg/kg		0.11 mg/kg	0.000011 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.24 mg/kg		0.24 mg/kg	0.000024 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.21 mg/kg		0.21 mg/kg	0.000021 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.24 mg/kg		0.24 mg/kg	0.000024 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.1 mg/kg		2.1 mg/kg	0.00021 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.25	mg/kg		0.25	mg/kg	0.000025 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		100	mg/kg	1.252	125.178	mg/kg	0.0125 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2.4	mg/kg	1.884	4.522	mg/kg	0.000452 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.57	mg/kg		0.57	mg/kg	0.000057 %		
21		fluorene		201-695-5	86-73-7		0.06	mg/kg		0.06	mg/kg	0.000006 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.09	mg/kg		0.09	mg/kg	0.000009 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	75	mg/kg		75	mg/kg	0.0075 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.38	mg/kg		0.38	mg/kg	0.000038 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	53	mg/kg		53	mg/kg	0.0053 %		
27		phenanthrene		201-581-5	85-01-8		0.56	mg/kg		0.56	mg/kg	0.000056 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.64	mg/kg		0.64	mg/kg	0.000064 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.7	mg/kg		0.7	mg/kg	0.00007 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		14	mg/kg		14	mg/kg	0.0014 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		34	mg/kg	1.785	60.696	mg/kg	0.00607 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	149.366	mg/kg	0.0149 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0551 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0014%)

Classification of sample: 01_BH104[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH104[3]
Sample Depth:
0.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5.9	mg/kg		5.9	mg/kg	0.00059 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		23	mg/kg		23	mg/kg	0.0023 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.8	mg/kg		2.8	mg/kg	0.00028 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4	mg/kg	5.719	8.007	mg/kg	0.000801 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6	mg/kg		0.6	mg/kg	0.00006 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.07	mg/kg		0.07	mg/kg	0.000007 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		300	mg/kg	1.252	375.533	mg/kg	0.0376 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.11	mg/kg		0.11	mg/kg	0.000011 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	180	mg/kg		180	mg/kg	0.018 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.45	mg/kg		0.45	mg/kg	0.000045 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	48	mg/kg		48	mg/kg	0.0048 %		
27		phenanthrene		201-581-5	85-01-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.12	mg/kg		0.12	mg/kg	0.000012 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		66	mg/kg	1.785	117.822	mg/kg	0.0118 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		150	mg/kg	1.245	186.707	mg/kg	0.0187 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0977 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH105

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH105
Sample Depth:
3.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		10 mg/kg		10 mg/kg	0.001 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		18	mg/kg	1.252	22.532	mg/kg	0.00225 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	18	mg/kg		18	mg/kg	0.0018 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		17	mg/kg		17	mg/kg	0.0017 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		54	mg/kg	1.245	67.215	mg/kg	0.00672 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.023 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: 01_BH105[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH105[2]
Sample Depth:
0.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.5 mg/kg		1.5 mg/kg	0.00015 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				31	mg/kg	1.252	38.805	mg/kg	0.00388 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	26	mg/kg		26	mg/kg	0.0026 %		
		082-001-00-6											
24		mercury { mercury }				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	27	mg/kg		27	mg/kg	0.0027 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				97	mg/kg	1.245	120.737	mg/kg	0.0121 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0319 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH106

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH106
Sample Depth:
7.6 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2.3 mg/kg	5.719	13.154 mg/kg	0.00132 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		26	mg/kg	1.252	32.546	mg/kg	0.00325 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1.1	mg/kg	1.884	2.072	mg/kg	0.000207 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	45	mg/kg		45	mg/kg	0.0045 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.11	mg/kg		0.11	mg/kg	0.000011 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	12	mg/kg		12	mg/kg	0.0012 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17	mg/kg	1.785	30.348	mg/kg	0.00303 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		50	mg/kg	1.245	62.236	mg/kg	0.00622 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0241 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH106[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH106[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.06 mg/kg		0.06 mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	21 mg/kg		21 mg/kg	0.0021 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40 mg/kg		40 mg/kg	0.004 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.16 mg/kg		0.16 mg/kg	0.000016 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.28 mg/kg		0.28 mg/kg	0.000028 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.25 mg/kg		0.25 mg/kg	0.000025 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.43 mg/kg		0.43 mg/kg	0.000043 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1 mg/kg		1 mg/kg	0.0001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				210	mg/kg	1.252	262.873	mg/kg	0.0263 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	370	mg/kg		370	mg/kg	0.037 %		
		082-001-00-6											
24		mercury { mercury }				0.38	mg/kg		0.38	mg/kg	0.000038 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
29		pyrene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			204-927-3	129-00-0									
30		selenium { selenium }				1	mg/kg		1	mg/kg	0.0001 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				48	mg/kg		48	mg/kg	0.0048 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				52	mg/kg	1.785	92.83	mg/kg	0.00928 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				340	mg/kg	1.245	423.203	mg/kg	0.0423 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.134 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0048%)

Classification of sample: 01_BH106[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH106[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.08	mg/kg		0.08	mg/kg	0.000008 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	7.8	mg/kg		7.8	mg/kg	0.00078 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		28	mg/kg		28	mg/kg	0.0028 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.05	mg/kg		0.05	mg/kg	0.000005 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.16	mg/kg		0.16	mg/kg	0.000016 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.11	mg/kg		0.11	mg/kg	0.000011 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.16	mg/kg		0.16	mg/kg	0.000016 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6	mg/kg		1.6	mg/kg	0.00016 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3	mg/kg	5.719	7.435	mg/kg	0.000743 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.15	mg/kg		0.15	mg/kg	0.000015 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		180	mg/kg	1.252	225.32	mg/kg	0.0225 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.05	mg/kg		0.05	mg/kg	0.000005 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	210	mg/kg		210	mg/kg	0.021 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.37	mg/kg		0.37	mg/kg	0.000037 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.09	mg/kg		0.09	mg/kg	0.000009 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	34	mg/kg		34	mg/kg	0.0034 %		
27		phenanthrene		201-581-5	85-01-8		0.36	mg/kg		0.36	mg/kg	0.000036 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		0.38	mg/kg		0.38	mg/kg	0.000038 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		19.1	mg/kg		19.1	mg/kg	0.00191 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		46	mg/kg	1.785	82.119	mg/kg	0.00821 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.086 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00191%)

Classification of sample: 01_BH107

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH107
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9 mg/kg		9 mg/kg	0.0009 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				25	mg/kg	1.252	31.294	mg/kg	0.00313 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	18	mg/kg		18	mg/kg	0.0018 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	28	mg/kg		28	mg/kg	0.0028 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				30	mg/kg	1.785	53.556	mg/kg	0.00536 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				57	mg/kg	1.245	70.949	mg/kg	0.00709 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0259 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH109

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH109
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.16 mg/kg		0.16 mg/kg	0.000016 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.23 mg/kg		0.23 mg/kg	0.000023 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.7 mg/kg		6.7 mg/kg	0.00067 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.13 mg/kg		0.13 mg/kg	0.000013 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.3 mg/kg		0.3 mg/kg	0.00003 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.5 mg/kg	5.719	8.579 mg/kg	0.000858 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5 mg/kg		0.5 mg/kg	0.00005 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.38	mg/kg		0.38	mg/kg	0.000038 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				19	mg/kg	1.252	23.784	mg/kg	0.00238 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.94	mg/kg		0.94	mg/kg	0.000094 %		
			205-912-4	206-44-0									
21		fluorene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	77	mg/kg		77	mg/kg	0.0077 %		
		082-001-00-6											
24		mercury { mercury }				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	11	mg/kg		11	mg/kg	0.0011 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.92	mg/kg		0.92	mg/kg	0.000092 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				128.1	mg/kg		128.1	mg/kg	0.0128 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	37.489	mg/kg	0.00375 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				74	mg/kg	1.245	92.109	mg/kg	0.00921 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.042 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0128%)

Classification of sample: 01_BH110

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH110	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.19%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.48 mg/kg		0.48 mg/kg	0.000048 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.37 mg/kg		0.37 mg/kg	0.000037 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.1 mg/kg		7.1 mg/kg	0.00071 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.18 mg/kg		0.18 mg/kg	0.000018 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.42 mg/kg		0.42 mg/kg	0.000042 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.36 mg/kg		0.36 mg/kg	0.000036 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.5 mg/kg		0.5 mg/kg	0.00005 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	0.2 mg/kg		0.2 mg/kg	0.00002 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.47	mg/kg		0.47	mg/kg	0.000047 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		22	mg/kg	1.252	27.539	mg/kg	0.00275 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.5	mg/kg		1.5	mg/kg	0.00015 %		
21		fluorene		201-695-5	86-73-7		0.28	mg/kg		0.28	mg/kg	0.000028 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1900	mg/kg		1900	mg/kg	0.19 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.1	mg/kg		0.1	mg/kg	0.00001 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.43	mg/kg		0.43	mg/kg	0.000043 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	11	mg/kg		11	mg/kg	0.0011 %		
27		phenanthrene		201-581-5	85-01-8		1.6	mg/kg		1.6	mg/kg	0.00016 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1.2	mg/kg		1.2	mg/kg	0.00012 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		74	mg/kg	1.245	92.109	mg/kg	0.00921 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.211 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH110[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_BH110[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.48 mg/kg		0.48 mg/kg	0.000048 %		
2	acenaphthylene		205-917-1	208-96-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
3	anthracene		204-371-1	120-12-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.1 mg/kg		2.1 mg/kg	0.00021 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.2 mg/kg		6.2 mg/kg	0.00062 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		2.7 mg/kg		2.7 mg/kg	0.00027 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.8 mg/kg		2.8 mg/kg	0.00028 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3.9 mg/kg		3.9 mg/kg	0.00039 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		4.5 mg/kg		4.5 mg/kg	0.00045 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				3	mg/kg		3	mg/kg	0.0003 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				46	mg/kg	1.252	57.582	mg/kg	0.00576 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				6.7	mg/kg		6.7	mg/kg	0.00067 %		
			205-912-4	206-44-0									
21		fluorene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	37	mg/kg		37	mg/kg	0.0037 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	25	mg/kg		25	mg/kg	0.0025 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
29		pyrene				6.1	mg/kg		6.1	mg/kg	0.00061 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				518	mg/kg		518	mg/kg	0.0518 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				38	mg/kg	1.785	67.837	mg/kg	0.00678 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				91	mg/kg	1.245	113.269	mg/kg	0.0113 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0908 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0518%)

Classification of sample: 01_BH112

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH112	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.5	mg/kg		4.5	mg/kg	0.00045 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7	mg/kg	5.719	4.003	mg/kg	0.0004 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1	mg/kg		0.1	mg/kg	0.00001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	16.077	mg/kg	0.00161 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		8.9	mg/kg	1.252	11.141	mg/kg	0.00111 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	66	mg/kg		66	mg/kg	0.0066 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	12	mg/kg		12	mg/kg	0.0012 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		36	mg/kg	1.245	44.81	mg/kg	0.00448 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0198 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_BH112[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_BH112[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		**<LOD**
3	anthracene		204-371-1	120-12-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5.1 mg/kg		5.1 mg/kg	0.00051 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.5 mg/kg		8.5 mg/kg	0.00085 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.3 mg/kg		0.3 mg/kg	0.00003 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.35 mg/kg	0.000035 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.44 mg/kg		0.44 mg/kg	0.000044 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.54 mg/kg		0.54 mg/kg	0.000054 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.41	mg/kg		0.41	mg/kg	0.000041 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		40	mg/kg	1.252	50.071	mg/kg	0.00501 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.89	mg/kg		0.89	mg/kg	0.000089 %		
21		fluorene		201-695-5	86-73-7		0.03	mg/kg		0.03	mg/kg	0.000003 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.25	mg/kg		0.25	mg/kg	0.000025 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	300	mg/kg		300	mg/kg	0.03 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.16	mg/kg		0.16	mg/kg	0.000016 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	12	mg/kg		12	mg/kg	0.0012 %		
27		phenanthrene		201-581-5	85-01-8		0.41	mg/kg		0.41	mg/kg	0.000041 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.89	mg/kg		0.89	mg/kg	0.000089 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22	mg/kg	1.785	39.274	mg/kg	0.00393 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		95	mg/kg	1.245	118.248	mg/kg	0.0118 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0571 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP101

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_TP101	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
3		anthracene		204-371-1	120-12-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3	mg/kg		1.3	mg/kg	0.00013 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.8	mg/kg		6.8	mg/kg	0.00068 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.06	mg/kg		0.06	mg/kg	0.000006 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.08	mg/kg		0.08	mg/kg	0.000008 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1	mg/kg	5.719	5.719	mg/kg	0.000572 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21	mg/kg	1.462	30.693	mg/kg	0.00307 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		71	mg/kg	1.252	88.876	mg/kg	0.00889 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.28	mg/kg		0.28	mg/kg	0.000028 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.06	mg/kg		0.06	mg/kg	0.000006 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26	mg/kg		26	mg/kg	0.0026 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22	mg/kg		22	mg/kg	0.0022 %		
27		phenanthrene		201-581-5	85-01-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
28		monohydric phenols			P1186		0.4	mg/kg		0.4	mg/kg	0.00004 %		
29		pyrene		204-927-3	129-00-0		0.28	mg/kg		0.28	mg/kg	0.000028 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	55.341	mg/kg	0.00553 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		95	mg/kg	1.245	118.248	mg/kg	0.0118 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0362 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP102

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_TP102	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2	mg/kg		1.2	mg/kg	0.00012 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		10	mg/kg		10	mg/kg	0.001 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7	mg/kg	5.719	4.003	mg/kg	0.0004 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29	mg/kg	1.462	42.385	mg/kg	0.00424 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		46	mg/kg	1.252	57.582	mg/kg	0.00576 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	17	mg/kg		17	mg/kg	0.0017 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	30	mg/kg		30	mg/kg	0.003 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	55.341	mg/kg	0.00553 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		89	mg/kg	1.245	110.78	mg/kg	0.0111 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP102[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP102[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
3	anthracene		204-371-1	120-12-7		0.22 mg/kg		0.22 mg/kg	0.000022 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.1 mg/kg		6.1 mg/kg	0.00061 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.15 mg/kg		0.15 mg/kg	0.000015 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.19 mg/kg		0.19 mg/kg	0.000019 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.2 mg/kg		0.2 mg/kg	0.00002 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.21	mg/kg		0.21	mg/kg	0.000021 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		21	mg/kg	1.252	26.287	mg/kg	0.00263 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.46	mg/kg		0.46	mg/kg	0.000046 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.05	mg/kg		0.05	mg/kg	0.000005 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	17	mg/kg		17	mg/kg	0.0017 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	10	mg/kg		10	mg/kg	0.001 %		
27		phenanthrene		201-581-5	85-01-8		0.11	mg/kg		0.11	mg/kg	0.000011 %		
28		monohydric phenols			P1186		0.5	mg/kg		0.5	mg/kg	0.00005 %		
29		pyrene		204-927-3	129-00-0		0.45	mg/kg		0.45	mg/kg	0.000045 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		79	mg/kg		79	mg/kg	0.0079 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		15	mg/kg	1.785	26.778	mg/kg	0.00268 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		59	mg/kg	1.245	73.438	mg/kg	0.00734 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0079%)

Classification of sample: 01_TP103

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP103
Sample Depth:
1.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.1 mg/kg		8.1 mg/kg	0.00081 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				27	mg/kg	1.252	33.798	mg/kg	0.00338 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	13	mg/kg		13	mg/kg	0.0013 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0254 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP103[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP103[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.1 mg/kg		4.1 mg/kg	0.00041 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.7 mg/kg	1.462	12.716 mg/kg	0.00127 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				35	mg/kg	1.252	43.812	mg/kg	0.00438 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	20	mg/kg		20	mg/kg	0.002 %		
		082-001-00-6											
24		mercury { mercury }				0.07	mg/kg		0.07	mg/kg	0.000007 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	12	mg/kg		12	mg/kg	0.0012 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				14	mg/kg	1.785	24.993	mg/kg	0.0025 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				67	mg/kg	1.245	83.396	mg/kg	0.00834 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0211 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP104

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP104
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.8 mg/kg		3.8 mg/kg	0.00038 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		23 mg/kg		23 mg/kg	0.0023 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7 mg/kg		0.7 mg/kg	0.00007 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		48 mg/kg	1.462	70.155 mg/kg	0.00702 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		150 mg/kg	1.252	187.766 mg/kg	0.0188 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2 mg/kg	1.884	0.377 mg/kg	0.0000377 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	210 mg/kg		210 mg/kg	0.021 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.34 mg/kg		0.34 mg/kg	0.000034 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
14		nickel { nickel }			7	32	mg/kg		32	mg/kg	0.0032 %		
		028-002-00-7	231-111-4	7440-02-0									
15		monohydric phenols				0.8	mg/kg		0.8	mg/kg	0.00008 %		
				P1186									
16		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
17		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		TPH (C6 to C40) petroleum group				640	mg/kg		640	mg/kg	0.064 %		
				TPH									
19		vanadium { divanadium pentaoxide; vanadium pentoxide }				160	mg/kg	1.785	285.63	mg/kg	0.0286 %		
		023-001-00-8	215-239-8	1314-62-1									
20		zinc { zinc oxide }				180	mg/kg	1.245	224.049	mg/kg	0.0224 %		
		030-013-00-7	215-222-5	1314-13-2									
21		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.064%)

Classification of sample: 01_TP105

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP105
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.2 mg/kg		2.2 mg/kg	0.00022 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		19 mg/kg		19 mg/kg	0.0019 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5 mg/kg		0.5 mg/kg	0.00005 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		94 mg/kg	1.252	117.667 mg/kg	0.0118 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				8.1 mg/kg	1.884	15.26 mg/kg	0.00153 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	240 mg/kg		240 mg/kg	0.024 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.9 mg/kg		0.9 mg/kg	0.00009 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
14		nickel { nickel }			7	27	mg/kg		27	mg/kg	0.0027 %		
		028-002-00-7	231-111-4	7440-02-0									
15		monohydric phenols				0.7	mg/kg		0.7	mg/kg	0.00007 %		
				P1186									
16		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
17		toluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		TPH (C6 to C40) petroleum group				272.3	mg/kg		272.3	mg/kg	0.0272 %		
				TPH									
19		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
		023-001-00-8	215-239-8	1314-62-1									
20		zinc { zinc oxide }				170	mg/kg	1.245	211.601	mg/kg	0.0212 %		
		030-013-00-7	215-222-5	1314-13-2									
21		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.101 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0272%)

Classification of sample: 01_TP105[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP105[2]
Sample Depth:
1.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		0.7 mg/kg		0.7 mg/kg	0.00007 %		
3	anthracene		204-371-1	120-12-7		0.51 mg/kg		0.51 mg/kg	0.000051 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1 mg/kg		1 mg/kg	0.0001 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		2.3 mg/kg		2.3 mg/kg	0.00023 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.2 mg/kg		0.2 mg/kg	0.00002 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.37 mg/kg		0.37 mg/kg	0.000037 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				39	mg/kg	1.252	48.819	mg/kg	0.00488 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				5.1	mg/kg	1.884	9.608	mg/kg	0.000961 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
21		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.52	mg/kg		0.52	mg/kg	0.000052 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %		
		082-001-00-6											
24		mercury { mercury }				0.32	mg/kg		0.32	mg/kg	0.000032 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	20	mg/kg		20	mg/kg	0.002 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				152	mg/kg		152	mg/kg	0.0152 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	37.489	mg/kg	0.00375 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				88	mg/kg	1.245	109.535	mg/kg	0.011 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0546 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0152%)

Classification of sample: 01_TP106

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_TP106	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		0.14 mg/kg		0.14 mg/kg	0.000014 %		
3	anthracene		204-371-1	120-12-7		0.18 mg/kg		0.18 mg/kg	0.000018 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.3 mg/kg		2.3 mg/kg	0.00023 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		1 mg/kg		1 mg/kg	0.0001 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.8 mg/kg		0.8 mg/kg	0.00008 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.99 mg/kg		0.99 mg/kg	0.000099 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.1 mg/kg		1.1 mg/kg	0.00011 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.1 mg/kg		2.1 mg/kg	0.00021 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		38 mg/kg	1.462	55.539 mg/kg	0.00555 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.1	mg/kg		1.1	mg/kg	0.00011 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130	mg/kg	1.252	162.731	mg/kg	0.0163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.15	mg/kg		0.15	mg/kg	0.000015 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.96	mg/kg		0.96	mg/kg	0.000096 %		
21		fluorene		201-695-5	86-73-7		0.04	mg/kg		0.04	mg/kg	0.000004 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.55	mg/kg		0.55	mg/kg	0.000055 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	40	mg/kg		40	mg/kg	0.004 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.07	mg/kg		0.07	mg/kg	0.000007 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	50	mg/kg		50	mg/kg	0.005 %		
27		phenanthrene		201-581-5	85-01-8		0.56	mg/kg		0.56	mg/kg	0.000056 %		
28		monohydric phenols			P1186		0.6	mg/kg		0.6	mg/kg	0.00006 %		
29		pyrene		204-927-3	129-00-0		2.4	mg/kg		2.4	mg/kg	0.00024 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		384.6	mg/kg		384.6	mg/kg	0.0385 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		65	mg/kg	1.785	116.037	mg/kg	0.0116 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		53	mg/kg	1.245	65.97	mg/kg	0.0066 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0916 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0385%)

Classification of sample: 01_TP106[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP106[2]
Sample Depth:
2.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5 mg/kg		5 mg/kg	0.0005 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<LOD
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		17 mg/kg	1.252	21.28 mg/kg	0.00213 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2 mg/kg	1.884	0.377 mg/kg	0.0000377 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	56 mg/kg		56 mg/kg	0.0056 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.11 mg/kg		0.11 mg/kg	0.000011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel }			7	13	mg/kg		13	mg/kg	0.0013 %		
		028-002-00-7	231-111-4	7440-02-0									
14		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
15		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
16		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
17		TPH (C6 to C40) petroleum group				190	mg/kg		190	mg/kg	0.019 %		
				TPH									
18		vanadium { divanadium pentaoxide; vanadium pentoxide }				15	mg/kg	1.785	26.778	mg/kg	0.00268 %		
		023-001-00-8	215-239-8	1314-62-1									
19		zinc { zinc oxide }				38	mg/kg	1.245	47.299	mg/kg	0.00473 %		
		030-013-00-7	215-222-5	1314-13-2									
20		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.0382 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.019%)

Classification of sample: 01_TP107

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP107
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				43	mg/kg	1.252	53.826	mg/kg	0.00538 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	39	mg/kg		39	mg/kg	0.0039 %		
		082-001-00-6											
24		mercury { mercury }				0.32	mg/kg		0.32	mg/kg	0.000032 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				62	mg/kg	1.245	77.172	mg/kg	0.00772 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP108

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP108
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.59 mg/kg		0.59 mg/kg	0.000059 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.61 mg/kg		0.61 mg/kg	0.000061 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	7.9 mg/kg		7.9 mg/kg	0.00079 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		37 mg/kg		37 mg/kg	0.0037 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.15 mg/kg		0.15 mg/kg	0.000015 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.7 mg/kg		0.7 mg/kg	0.00007 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.38 mg/kg		0.38 mg/kg	0.000038 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.5 mg/kg		0.5 mg/kg	0.00005 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36 mg/kg	1.462	52.616 mg/kg	0.00526 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				130	mg/kg	1.252	162.731	mg/kg	0.0163 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			205-912-4	206-44-0									
21		fluorene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	100	mg/kg		100	mg/kg	0.01 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	33	mg/kg		33	mg/kg	0.0033 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.5	mg/kg		0.5	mg/kg	0.00005 %		
				P1186									
29		pyrene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				139	mg/kg		139	mg/kg	0.0139 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				74	mg/kg	1.785	132.104	mg/kg	0.0132 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0848 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0139%)

Classification of sample: 01_TP109

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_TP109	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.13%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.04 mg/kg		0.04 mg/kg	0.000004 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.1 mg/kg		4.1 mg/kg	0.00041 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		28 mg/kg		28 mg/kg	0.0028 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.11 mg/kg		0.11 mg/kg	0.000011 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.15 mg/kg		0.15 mg/kg	0.000015 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.13 mg/kg		0.13 mg/kg	0.000013 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.16 mg/kg		0.16 mg/kg	0.000016 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.6 mg/kg		2.6 mg/kg	0.00026 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	0.5 mg/kg		0.5 mg/kg	0.00005 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		300	mg/kg	1.252	375.533	mg/kg	0.0376 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.8	mg/kg	1.884	1.507	mg/kg	0.000151 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.35	mg/kg		0.35	mg/kg	0.000035 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1300	mg/kg		1300	mg/kg	0.13 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		18	mg/kg		18	mg/kg	0.0018 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	39	mg/kg		39	mg/kg	0.0039 %		
27		phenanthrene		201-581-5	85-01-8		0.26	mg/kg		0.26	mg/kg	0.000026 %		
28		monohydric phenols			P1186		0.5	mg/kg		0.5	mg/kg	0.00005 %		
29		pyrene		204-927-3	129-00-0		0.39	mg/kg		0.39	mg/kg	0.000039 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		53	mg/kg	1.785	94.615	mg/kg	0.00946 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		310	mg/kg	1.245	385.861	mg/kg	0.0386 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.229 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP109[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP109[2]
Sample Depth:
1.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3 mg/kg		3 mg/kg	0.0003 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		71 mg/kg		71 mg/kg	0.0071 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.1 mg/kg		2.1 mg/kg	0.00021 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		110 mg/kg	1.252	137.695 mg/kg	0.0138 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2 mg/kg	1.884	0.377 mg/kg	0.0000377 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	180 mg/kg		180 mg/kg	0.018 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.1 mg/kg		1.1 mg/kg	0.00011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
14		monohydric phenols				0.5	mg/kg		0.5	mg/kg	0.00005 %		
				P1186									
15		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
16		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
17		TPH (C6 to C40) petroleum group				38	mg/kg		38	mg/kg	0.0038 %		
				TPH									
18		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	71.407	mg/kg	0.00714 %		
		023-001-00-8	215-239-8	1314-62-1									
19		zinc { zinc oxide }				93	mg/kg	1.245	115.758	mg/kg	0.0116 %		
		030-013-00-7	215-222-5	1314-13-2									
20		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.0681 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0038%)

Classification of sample: 01_TP109[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP109[3]
Sample Depth:
3.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.8 mg/kg		4.8 mg/kg	0.00048 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		19 mg/kg		19 mg/kg	0.0019 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.1 mg/kg		0.1 mg/kg	0.00001 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.12 mg/kg		0.12 mg/kg	0.000012 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.11 mg/kg		0.11 mg/kg	0.000011 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.13 mg/kg		0.13 mg/kg	0.000013 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2 mg/kg		2 mg/kg	0.0002 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				150	mg/kg	1.252	187.766	mg/kg	0.0188 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	330	mg/kg		330	mg/kg	0.033 %		
		082-001-00-6											
24		mercury { mercury }				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.6	mg/kg		0.6	mg/kg	0.00006 %		
				P1186									
29		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				43	mg/kg	1.785	76.763	mg/kg	0.00768 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				99	mg/kg	1.245	123.227	mg/kg	0.0123 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0819 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP110

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP110
Sample Depth:
1.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.35 mg/kg		0.35 mg/kg	0.000035 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		34 mg/kg		34 mg/kg	0.0034 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.13 mg/kg		0.13 mg/kg	0.000013 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.36 mg/kg		0.36 mg/kg	0.000036 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.32 mg/kg		0.32 mg/kg	0.000032 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.9 mg/kg		1.9 mg/kg	0.00019 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.4	mg/kg		0.4	mg/kg	0.00004 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		300	mg/kg	1.252	375.533	mg/kg	0.0376 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		1.2	mg/kg		1.2	mg/kg	0.00012 %		
21		fluorene		201-695-5	86-73-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.11	mg/kg		0.11	mg/kg	0.000011 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	520	mg/kg		520	mg/kg	0.052 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.6	mg/kg		1.6	mg/kg	0.00016 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.19	mg/kg		0.19	mg/kg	0.000019 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	38	mg/kg		38	mg/kg	0.0038 %		
27		phenanthrene		201-581-5	85-01-8		1.5	mg/kg		1.5	mg/kg	0.00015 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		1.2	mg/kg		1.2	mg/kg	0.00012 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		59	mg/kg	1.785	105.326	mg/kg	0.0105 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		240	mg/kg	1.245	298.731	mg/kg	0.0299 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.143 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP111

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP111
Sample Depth:
2.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.5 mg/kg		4.5 mg/kg	0.00045 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				14	mg/kg	1.252	17.525	mg/kg	0.00175 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12	mg/kg		12	mg/kg	0.0012 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	15	mg/kg		15	mg/kg	0.0015 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				28	mg/kg	1.245	34.852	mg/kg	0.00349 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0139 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP111[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP111[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.09 mg/kg		0.09 mg/kg	0.000009 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.3 mg/kg		4.3 mg/kg	0.00043 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.07 mg/kg		0.07 mg/kg	0.000007 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.16 mg/kg		0.16 mg/kg	0.000016 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.17 mg/kg		0.17 mg/kg	0.000017 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				86	mg/kg	1.252	107.653	mg/kg	0.0108 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	71	mg/kg		71	mg/kg	0.0071 %		
		082-001-00-6											
24		mercury { mercury }				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	28	mg/kg		28	mg/kg	0.0028 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				74	mg/kg	1.785	132.104	mg/kg	0.0132 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				180	mg/kg	1.245	224.049	mg/kg	0.0224 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0635 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP112

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP112
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	55 mg/kg		55 mg/kg	0.0055 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		19 mg/kg		19 mg/kg	0.0019 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.2 mg/kg		2.2 mg/kg	0.00022 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.06	mg/kg		0.06	mg/kg	0.000006 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		270	mg/kg	1.252	337.98	mg/kg	0.0338 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.12	mg/kg		0.12	mg/kg	0.000012 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	290	mg/kg		290	mg/kg	0.029 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.45	mg/kg		0.45	mg/kg	0.000045 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	38	mg/kg		38	mg/kg	0.0038 %		
27		phenanthrene		201-581-5	85-01-8		0.11	mg/kg		0.11	mg/kg	0.000011 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.1	mg/kg		0.1	mg/kg	0.00001 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54	mg/kg	1.785	96.4	mg/kg	0.00964 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	149.366	mg/kg	0.0149 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.102 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP112[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP112[2]
Sample Depth:
2.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	20 mg/kg		20 mg/kg	0.002 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		44 mg/kg		44 mg/kg	0.0044 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		150 mg/kg	1.252	187.766 mg/kg	0.0188 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	210 mg/kg		210 mg/kg	0.021 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.29 mg/kg		0.29 mg/kg	0.000029 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel }			7	35	mg/kg		35	mg/kg	0.0035 %		
		028-002-00-7	231-111-4	7440-02-0									
14		monohydric phenols				1	mg/kg		1	mg/kg	0.0001 %		
				P1186									
15		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
16		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		TPH (C6 to C40) petroleum group				31	mg/kg		31	mg/kg	0.0031 %		
				TPH									
18		vanadium { divanadium pentaoxide; vanadium pentoxide }				46	mg/kg	1.785	82.119	mg/kg	0.00821 %		
		023-001-00-8	215-239-8	1314-62-1									
19		zinc { zinc oxide }				91	mg/kg	1.245	113.269	mg/kg	0.0113 %		
		030-013-00-7	215-222-5	1314-13-2									
20		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.076 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: 01_TP115

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP115
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		0.26 mg/kg		0.26 mg/kg	0.000026 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	12 mg/kg		12 mg/kg	0.0012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40 mg/kg		40 mg/kg	0.004 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.18 mg/kg		0.18 mg/kg	0.000018 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.45 mg/kg		0.45 mg/kg	0.000045 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.39 mg/kg		0.39 mg/kg	0.000039 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.55 mg/kg		0.55 mg/kg	0.000055 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.2 mg/kg		2.2 mg/kg	0.00022 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.9 mg/kg	5.719	5.147 mg/kg	0.000515 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				300	mg/kg	1.252	375.533	mg/kg	0.0376 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
21		fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	460	mg/kg		460	mg/kg	0.046 %		
		082-001-00-6											
24		mercury { mercury }				0.63	mg/kg		0.63	mg/kg	0.000063 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	45	mg/kg		45	mg/kg	0.0045 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.5	mg/kg		0.5	mg/kg	0.00005 %		
				P1186									
29		pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				76	mg/kg	1.785	135.674	mg/kg	0.0136 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.128 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP115[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP115[2]
Sample Depth:
1.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	8.2 mg/kg		8.2 mg/kg	0.00082 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		25 mg/kg		25 mg/kg	0.0025 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		3.9 mg/kg		3.9 mg/kg	0.00039 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		260 mg/kg	1.252	325.462 mg/kg	0.0325 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.4 mg/kg	1.884	0.754 mg/kg	0.0000754 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.44 mg/kg		0.44 mg/kg	0.000044 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel }			7	50	mg/kg		50	mg/kg	0.005 %		
		028-002-00-7	231-111-4	7440-02-0									
14		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
15		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
16		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		TPH (C6 to C40) petroleum group				210	mg/kg		210	mg/kg	0.021 %		
				TPH									
18		vanadium { divanadium pentaoxide; vanadium pentoxide }				58	mg/kg	1.785	103.541	mg/kg	0.0104 %		
		023-001-00-8	215-239-8	1314-62-1									
19		zinc { zinc oxide }				88	mg/kg	1.245	109.535	mg/kg	0.011 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.107 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.021%)

Classification of sample: 01_TP115[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP115[3]
Sample Depth:
3.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.08 mg/kg		0.08 mg/kg	0.000008 %		
2	acenaphthylene		205-917-1	208-96-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
3	anthracene		204-371-1	120-12-7		0.33 mg/kg		0.33 mg/kg	0.000033 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	12 mg/kg		12 mg/kg	0.0012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40 mg/kg		40 mg/kg	0.004 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.23 mg/kg		0.23 mg/kg	0.000023 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.53 mg/kg		0.53 mg/kg	0.000053 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.5 mg/kg		0.5 mg/kg	0.00005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.67 mg/kg		0.67 mg/kg	0.000067 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.3 mg/kg		2.3 mg/kg	0.00023 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5 mg/kg		0.5 mg/kg	0.00005 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				310	mg/kg	1.252	388.051	mg/kg	0.0388 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				68	mg/kg	1.884	128.112	mg/kg	0.0128 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
21		fluorene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	520	mg/kg		520	mg/kg	0.052 %		
		082-001-00-6											
24		mercury { mercury }				1	mg/kg		1	mg/kg	0.0001 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	40	mg/kg		40	mg/kg	0.004 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.4	mg/kg		0.4	mg/kg	0.00004 %		
				P1186									
29		pyrene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				61	mg/kg	1.785	108.896	mg/kg	0.0109 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				180	mg/kg	1.245	224.049	mg/kg	0.0224 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.15 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP119

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP119
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				19	mg/kg	1.252	23.784	mg/kg	0.00238 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	18	mg/kg		18	mg/kg	0.0018 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	16	mg/kg		16	mg/kg	0.0016 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				36	mg/kg	1.785	64.267	mg/kg	0.00643 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				67	mg/kg	1.245	83.396	mg/kg	0.00834 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0252 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP119[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP119[2]
Sample Depth:
0.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.1 mg/kg		4.1 mg/kg	0.00041 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.09 mg/kg		0.09 mg/kg	0.000009 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.06 mg/kg		0.06 mg/kg	0.000006 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.6 mg/kg	5.719	9.151 mg/kg	0.000915 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				59	mg/kg	1.252	73.855	mg/kg	0.00739 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	47	mg/kg		47	mg/kg	0.0047 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	7.5	mg/kg		7.5	mg/kg	0.00075 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				119.7	mg/kg		119.7	mg/kg	0.012 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				10	mg/kg	1.785	17.852	mg/kg	0.00179 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				100	mg/kg	1.245	124.471	mg/kg	0.0124 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0428 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.012%)

Classification of sample: 01_TP120

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP120
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.7 mg/kg		3.7 mg/kg	0.00037 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		19 mg/kg		19 mg/kg	0.0019 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.1 mg/kg		0.1 mg/kg	0.00001 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.2 mg/kg		0.2 mg/kg	0.00002 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.2 mg/kg		0.2 mg/kg	0.00002 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.9 mg/kg		1.9 mg/kg	0.00019 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.5 mg/kg	5.719	8.579 mg/kg	0.000858 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		120	mg/kg	1.252	150.213	mg/kg	0.015 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
21		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.1	mg/kg		0.1	mg/kg	0.00001 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	96	mg/kg		96	mg/kg	0.0096 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.13	mg/kg		0.13	mg/kg	0.000013 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	28	mg/kg		28	mg/kg	0.0028 %		
27		phenanthrene		201-581-5	85-01-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35	mg/kg	1.785	62.481	mg/kg	0.00625 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		140	mg/kg	1.245	174.26	mg/kg	0.0174 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0583 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP120[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_TP120[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.21%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.7 mg/kg		2.7 mg/kg	0.00027 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		16 mg/kg		16 mg/kg	0.0016 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.2 mg/kg		1.2 mg/kg	0.00012 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	0.9 mg/kg		0.9 mg/kg	0.00009 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5									
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.03 mg/kg		0.03 mg/kg	0.000003 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		110 mg/kg	1.252	137.695 mg/kg	0.0138 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.4 mg/kg	1.884	0.754 mg/kg	0.0000754 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.08 mg/kg		0.08 mg/kg	0.000008 %		
21		fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	2100 mg/kg		2100 mg/kg	0.21 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.14 mg/kg		0.14 mg/kg	0.000014 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	17 mg/kg		17 mg/kg	0.0017 %		
27		phenanthrene		201-581-5	85-01-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
28		monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.06 mg/kg		0.06 mg/kg	0.000006 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23 mg/kg	1.785	41.059 mg/kg	0.00411 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		140 mg/kg	1.245	174.26 mg/kg	0.0174 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
									Total:	0.253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP121

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP121
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.6 mg/kg		6.6 mg/kg	0.00066 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				350	mg/kg	1.252	438.122	mg/kg	0.0438 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	440	mg/kg		440	mg/kg	0.044 %		
		082-001-00-6											
24		mercury { mercury }				0.39	mg/kg		0.39	mg/kg	0.000039 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	28	mg/kg		28	mg/kg	0.0028 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				280	mg/kg	1.245	348.52	mg/kg	0.0349 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.136 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP121[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP121[2]
Sample Depth:
2.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.5 mg/kg		4.5 mg/kg	0.00045 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.8 mg/kg	1.462	9.939 mg/kg	0.000994 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				10	mg/kg	1.252	12.518	mg/kg	0.00125 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	28	mg/kg		28	mg/kg	0.0028 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	6.5	mg/kg		6.5	mg/kg	0.00065 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				8.7	mg/kg	1.785	15.531	mg/kg	0.00155 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				35	mg/kg	1.245	43.565	mg/kg	0.00436 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0131 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP122

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP122
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	59 mg/kg		59 mg/kg	0.0059 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		23 mg/kg		23 mg/kg	0.0023 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		280	mg/kg	1.252	350.497	mg/kg	0.035 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	730	mg/kg		730	mg/kg	0.073 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.18	mg/kg		0.18	mg/kg	0.000018 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	24	mg/kg		24	mg/kg	0.0024 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	51.77	mg/kg	0.00518 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		260	mg/kg	1.245	323.626	mg/kg	0.0324 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.16 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP124

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP124
Sample Depth:
3.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.8 mg/kg		4.8 mg/kg	0.00048 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.1 mg/kg		7.1 mg/kg	0.00071 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				59	mg/kg	1.252	73.855	mg/kg	0.00739 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	27	mg/kg		27	mg/kg	0.0027 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	42.844	mg/kg	0.00428 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				73	mg/kg	1.245	90.864	mg/kg	0.00909 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0397 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP124[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
01_TP124[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.3 m	Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 1.2%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1A; H360Df "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 1.2%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

copper(II) oxide: (compound conc.: 0.526%)
lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 1.2%)
zinc oxide: (compound conc.: 0.162%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.08 mg/kg		0.08 mg/kg	0.000008 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	180 mg/kg		180 mg/kg	0.018 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		61 mg/kg		61 mg/kg	0.0061 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.1	mg/kg		0.1	mg/kg	0.00001 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.21	mg/kg		0.21	mg/kg	0.000021 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.18	mg/kg		0.18	mg/kg	0.000018 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.24	mg/kg		0.24	mg/kg	0.000024 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.8	mg/kg		1.8	mg/kg	0.00018 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.6	mg/kg	5.719	9.151	mg/kg	0.000915 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.6	mg/kg		1.6	mg/kg	0.00016 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		33	mg/kg	1.462	48.231	mg/kg	0.00482 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.23	mg/kg		0.23	mg/kg	0.000023 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		4200	mg/kg	1.252	5257.462	mg/kg	0.526 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				89	mg/kg	1.884	167.676	mg/kg	0.0168 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.54	mg/kg		0.54	mg/kg	0.000054 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12000	mg/kg		12000	mg/kg	1.2 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		2.5	mg/kg		2.5	mg/kg	0.00025 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	43	mg/kg		43	mg/kg	0.0043 %		
27		phenanthrene		201-581-5	85-01-8		0.35	mg/kg		0.35	mg/kg	0.000035 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.55	mg/kg		0.55	mg/kg	0.000055 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				22.6	mg/kg		22.6	mg/kg	0.00226 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				86	mg/kg	1.785	153.526	mg/kg	0.0154 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				1300	mg/kg	1.245	1618.128	mg/kg	0.162 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	1.957 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00226%)

Classification of sample: 01_TP125

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP125
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.26 mg/kg		0.26 mg/kg	0.000026 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.9 mg/kg		4.9 mg/kg	0.00049 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		14 mg/kg		14 mg/kg	0.0014 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.17 mg/kg		0.17 mg/kg	0.000017 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.4 mg/kg		0.4 mg/kg	0.00004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.31 mg/kg		0.31 mg/kg	0.000031 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.44 mg/kg		0.44 mg/kg	0.000044 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7 mg/kg		0.7 mg/kg	0.00007 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.46	mg/kg		0.46	mg/kg	0.000046 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		41	mg/kg	1.252	51.323	mg/kg	0.00513 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		1.3	mg/kg		1.3	mg/kg	0.00013 %		
21		fluorene		201-695-5	86-73-7		0.17	mg/kg		0.17	mg/kg	0.000017 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	830	mg/kg		830	mg/kg	0.083 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.43	mg/kg		0.43	mg/kg	0.000043 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.19	mg/kg		0.19	mg/kg	0.000019 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	18	mg/kg		18	mg/kg	0.0018 %		
27		phenanthrene		201-581-5	85-01-8		1.1	mg/kg		1.1	mg/kg	0.00011 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		**<LOD**
29		pyrene		204-927-3	129-00-0		1.2	mg/kg		1.2	mg/kg	0.00012 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39	mg/kg	1.785	69.622	mg/kg	0.00696 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		150	mg/kg	1.245	186.707	mg/kg	0.0187 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
											Total:	0.124 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP126

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP126
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.23 mg/kg		0.23 mg/kg	0.000023 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.37 mg/kg		0.37 mg/kg	0.000037 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.6 mg/kg		2.6 mg/kg	0.00026 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.5 mg/kg		9.5 mg/kg	0.00095 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.21 mg/kg		0.21 mg/kg	0.000021 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.6 mg/kg		0.6 mg/kg	0.00006 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.44 mg/kg		0.44 mg/kg	0.000044 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.59 mg/kg		0.59 mg/kg	0.000059 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3 mg/kg		3 mg/kg	0.0003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.69	mg/kg		0.69	mg/kg	0.000069 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		39	mg/kg	1.252	48.819	mg/kg	0.00488 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.9	mg/kg		1.9	mg/kg	0.00019 %		
21		fluorene		201-695-5	86-73-7		0.15	mg/kg		0.15	mg/kg	0.000015 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.19	mg/kg		0.19	mg/kg	0.000019 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	120	mg/kg		120	mg/kg	0.012 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.72	mg/kg		0.72	mg/kg	0.000072 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.16	mg/kg		0.16	mg/kg	0.000016 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	18	mg/kg		18	mg/kg	0.0018 %		
27		phenanthrene		201-581-5	85-01-8		1.6	mg/kg		1.6	mg/kg	0.00016 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1.7	mg/kg		1.7	mg/kg	0.00017 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		222.7	mg/kg		222.7	mg/kg	0.0223 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		34	mg/kg	1.785	60.696	mg/kg	0.00607 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		520	mg/kg	1.245	647.251	mg/kg	0.0647 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.118 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0223%)

Classification of sample: 01_TP126[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP126[2]
Sample Depth:
2.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.6 mg/kg		6.6 mg/kg	0.00066 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.9 mg/kg	5.719	5.147 mg/kg	0.000515 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				16	mg/kg	1.252	20.028	mg/kg	0.002 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	27	mg/kg		27	mg/kg	0.0027 %		
		082-001-00-6											
24		mercury { mercury }				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	15	mg/kg		15	mg/kg	0.0015 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				53	mg/kg	1.245	65.97	mg/kg	0.0066 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.022 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_TP127

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_TP127
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.16 mg/kg		0.16 mg/kg	0.000016 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.17 mg/kg		0.17 mg/kg	0.000017 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.5 mg/kg		1.5 mg/kg	0.00015 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		17 mg/kg		17 mg/kg	0.0017 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.18 mg/kg		0.18 mg/kg	0.000018 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.37 mg/kg		0.37 mg/kg	0.000037 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.32 mg/kg		0.32 mg/kg	0.000032 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.47 mg/kg		0.47 mg/kg	0.000047 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				37	mg/kg	1.252	46.316	mg/kg	0.00463 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
21		fluorene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	87	mg/kg		87	mg/kg	0.0087 %		
		082-001-00-6											
24		mercury { mercury }				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	16	mg/kg		16	mg/kg	0.0016 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				69.2	mg/kg		69.2	mg/kg	0.00692 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				100	mg/kg	1.245	124.471	mg/kg	0.0124 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0454 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00692%)

Classification of sample: 01_WS101

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
01_WS101	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.11	mg/kg		0.11	mg/kg	0.000011 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.3	mg/kg		3.3	mg/kg	0.00033 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12	mg/kg		12	mg/kg	0.0012 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.06	mg/kg		0.06	mg/kg	0.000006 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.18	mg/kg		0.18	mg/kg	0.000018 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.14	mg/kg		0.14	mg/kg	0.000014 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8	mg/kg		0.8	mg/kg	0.00008 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1	mg/kg	5.719	6.291	mg/kg	0.000629 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.21	mg/kg		0.21	mg/kg	0.000021 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		57	mg/kg	1.252	71.351	mg/kg	0.00714 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.8	mg/kg	1.884	1.507	mg/kg	0.000151 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.59	mg/kg		0.59	mg/kg	0.000059 %		
21		fluorene		201-695-5	86-73-7		0.07	mg/kg		0.07	mg/kg	0.000007 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.06	mg/kg		0.06	mg/kg	0.000006 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	280	mg/kg		280	mg/kg	0.028 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.16	mg/kg		0.16	mg/kg	0.000016 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	16	mg/kg		16	mg/kg	0.0016 %		
27		phenanthrene		201-581-5	85-01-8		0.58	mg/kg		0.58	mg/kg	0.000058 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.53	mg/kg		0.53	mg/kg	0.000053 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		97	mg/kg	1.245	120.737	mg/kg	0.0121 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0574 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_WS102

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_WS102
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
3		anthracene		204-371-1	120-12-7		0.08	mg/kg		0.08	mg/kg	0.000008 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.5	mg/kg		1.5	mg/kg	0.00015 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12	mg/kg		12	mg/kg	0.0012 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.15	mg/kg		0.15	mg/kg	0.000015 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.3	mg/kg		0.3	mg/kg	0.00003 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.28	mg/kg		0.28	mg/kg	0.000028 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.36	mg/kg		0.36	mg/kg	0.000036 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3	mg/kg	5.719	7.435	mg/kg	0.000743 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.32	mg/kg		0.32	mg/kg	0.000032 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		80	mg/kg	1.252	100.142	mg/kg	0.01 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.4	mg/kg	1.884	0.754	mg/kg	0.0000754 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.68	mg/kg		0.68	mg/kg	0.000068 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.12	mg/kg		0.12	mg/kg	0.000012 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	280	mg/kg		280	mg/kg	0.028 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.63	mg/kg		0.63	mg/kg	0.000063 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	11	mg/kg		11	mg/kg	0.0011 %		
27		phenanthrene		201-581-5	85-01-8		0.42	mg/kg		0.42	mg/kg	0.000042 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.7	mg/kg		0.7	mg/kg	0.00007 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.5	mg/kg		0.5	mg/kg	0.00005 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		61	mg/kg		61	mg/kg	0.0061 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		140	mg/kg	1.245	174.26	mg/kg	0.0174 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0708 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0061%)

Classification of sample: 01_WS103

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_WS103
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		6.1 mg/kg		6.1 mg/kg	0.00061 %		
2	acenaphthylene		205-917-1	208-96-8		0.11 mg/kg		0.11 mg/kg	0.000011 %		
3	anthracene		204-371-1	120-12-7		3.7 mg/kg		3.7 mg/kg	0.00037 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		14 mg/kg		14 mg/kg	0.0014 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.93 mg/kg		0.93 mg/kg	0.000093 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.7 mg/kg		3.7 mg/kg	0.00037 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.7 mg/kg		2.7 mg/kg	0.00027 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.9 mg/kg		2.9 mg/kg	0.00029 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.5 mg/kg	5.719	8.579 mg/kg	0.000858 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				60	mg/kg	1.252	75.107	mg/kg	0.00751 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.4	mg/kg	1.884	0.754	mg/kg	0.0000754 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				13	mg/kg		13	mg/kg	0.0013 %		
			205-912-4	206-44-0									
21		fluorene				4	mg/kg		4	mg/kg	0.0004 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	490	mg/kg		490	mg/kg	0.049 %		
		082-001-00-6											
24		mercury { mercury }				0.68	mg/kg		0.68	mg/kg	0.000068 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				18	mg/kg		18	mg/kg	0.0018 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	15	mg/kg		15	mg/kg	0.0015 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				20	mg/kg		20	mg/kg	0.002 %		
			201-581-5	85-01-8									
28		monohydric phenols				12	mg/kg		12	mg/kg	0.0012 %		
				P1186									
29		pyrene				13	mg/kg		13	mg/kg	0.0013 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				199.6	mg/kg		199.6	mg/kg	0.02 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	42.844	mg/kg	0.00428 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				220	mg/kg	1.245	273.837	mg/kg	0.0274 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.126 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.02%)

Classification of sample: 01_WS104

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_WS104
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		5.5 mg/kg		5.5 mg/kg	0.00055 %		
2	acenaphthylene		205-917-1	208-96-8		7.7 mg/kg		7.7 mg/kg	0.00077 %		
3	anthracene		204-371-1	120-12-7		14 mg/kg		14 mg/kg	0.0014 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.4 mg/kg		3.4 mg/kg	0.00034 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		15 mg/kg		15 mg/kg	0.0015 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		9.5 mg/kg		9.5 mg/kg	0.00095 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		19 mg/kg		19 mg/kg	0.0019 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		17 mg/kg		17 mg/kg	0.0017 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		17 mg/kg		17 mg/kg	0.0017 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		20	mg/kg		20	mg/kg	0.002 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		90	mg/kg	1.252	112.66	mg/kg	0.0113 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				8.5	mg/kg	1.884	16.014	mg/kg	0.0016 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		2.4	mg/kg		2.4	mg/kg	0.00024 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		50	mg/kg		50	mg/kg	0.005 %		
21		fluorene		201-695-5	86-73-7		13	mg/kg		13	mg/kg	0.0013 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		7.4	mg/kg		7.4	mg/kg	0.00074 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	290	mg/kg		290	mg/kg	0.029 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.11	mg/kg		0.11	mg/kg	0.000011 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	15	mg/kg		15	mg/kg	0.0015 %		
27		phenanthrene		201-581-5	85-01-8		61	mg/kg		61	mg/kg	0.0061 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		48	mg/kg		48	mg/kg	0.0048 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.9	mg/kg		0.9	mg/kg	0.00009 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		74.3	mg/kg		74.3	mg/kg	0.00743 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	41.059	mg/kg	0.00411 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		310	mg/kg	1.245	385.861	mg/kg	0.0386 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.128 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00743%)

Classification of sample: 01_WS105

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_WS105
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.04 mg/kg		0.04 mg/kg	0.000004 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.3 mg/kg		6.3 mg/kg	0.00063 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.04 mg/kg		0.04 mg/kg	0.000004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.09 mg/kg		0.09 mg/kg	0.000009 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.07 mg/kg		0.07 mg/kg	0.000007 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.09 mg/kg		0.09 mg/kg	0.000009 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	4.7 mg/kg		4.7 mg/kg	0.00047 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		38 mg/kg	1.462	55.539 mg/kg	0.00555 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				190	mg/kg	1.252	237.838	mg/kg	0.0238 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.8	mg/kg	1.884	1.507	mg/kg	0.000151 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			205-912-4	206-44-0									
21		fluorene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	490	mg/kg		490	mg/kg	0.049 %		
		082-001-00-6											
24		mercury { mercury }				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	42	mg/kg		42	mg/kg	0.0042 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			204-927-3	129-00-0									
30		selenium { selenium }				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				1700	mg/kg	1.245	2116.014	mg/kg	0.212 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.303 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: 01_WS106

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
01_WS106
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.4 mg/kg		0.4 mg/kg	0.00004 %		
2	acenaphthylene		205-917-1	208-96-8		0.3 mg/kg		0.3 mg/kg	0.00003 %		
3	anthracene		204-371-1	120-12-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.5 mg/kg		2.5 mg/kg	0.00025 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.5 mg/kg		7.5 mg/kg	0.00075 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		1.1 mg/kg		1.1 mg/kg	0.00011 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2 mg/kg		1.2 mg/kg	0.00012 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.5 mg/kg		1.5 mg/kg	0.00015 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.7 mg/kg		1.7 mg/kg	0.00017 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.3 mg/kg		0.3 mg/kg	0.00003 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.2	mg/kg		1.2	mg/kg	0.00012 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		79	mg/kg	1.252	98.89	mg/kg	0.00989 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				4	mg/kg	1.884	7.536	mg/kg	0.000754 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.2	mg/kg		0.2	mg/kg	0.00002 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		3	mg/kg		3	mg/kg	0.0003 %		
21		fluorene		201-695-5	86-73-7		0.3	mg/kg		0.3	mg/kg	0.00003 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.9	mg/kg		0.9	mg/kg	0.00009 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	140	mg/kg		140	mg/kg	0.014 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.41	mg/kg		0.41	mg/kg	0.000041 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.02	mg/kg		0.02	mg/kg	0.000002 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	14	mg/kg		14	mg/kg	0.0014 %		
27		phenanthrene		201-581-5	85-01-8		1.8	mg/kg		1.8	mg/kg	0.00018 %		
28		monohydric phenols			P1186		0.4	mg/kg		0.4	mg/kg	0.00004 %		
29		pyrene		204-927-3	129-00-0		2.7	mg/kg		2.7	mg/kg	0.00027 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		451.6	mg/kg		451.6	mg/kg	0.0452 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17	mg/kg	1.785	30.348	mg/kg	0.00303 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	149.366	mg/kg	0.0149 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.0947 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0452%)

Classification of sample: BAL01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BAL01

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
2		acenaphthylene		205-917-1	208-96-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
3		anthracene		204-371-1	120-12-7		0.21	mg/kg		0.21	mg/kg	0.000021 %		
4		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
6		benzo[ghi]perylene		205-883-8	191-24-2		0.12	mg/kg		0.12	mg/kg	0.000012 %		
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.22	mg/kg		0.22	mg/kg	0.000022 %		
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.22	mg/kg		0.22	mg/kg	0.000022 %		
9		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.27	mg/kg		0.27	mg/kg	0.000027 %		
10		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
11		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.5	mg/kg		1.5	mg/kg	0.00015 %		
12		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31	mg/kg	1.462	45.308	mg/kg	0.00453 %		
13		chrysene	601-048-00-0	205-923-4	218-01-9		0.24	mg/kg		0.24	mg/kg	0.000024 %		
14		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		121	mg/kg	1.252	151.465	mg/kg	0.0151 %		
15		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		fluoranthene		205-912-4	206-44-0		0.7	mg/kg		0.7	mg/kg	0.00007 %		
19		fluorene		201-695-5	86-73-7		0.03	mg/kg		0.03	mg/kg	0.000003 %		
20		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
21		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	50	mg/kg		50	mg/kg	0.005 %		
22		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.53	mg/kg		0.53	mg/kg	0.000053 %		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		0.07	mg/kg		0.07	mg/kg	0.000007 %		
24		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	33	mg/kg		33	mg/kg	0.0033 %		
25		phenanthrene		201-581-5	85-01-8		0.41	mg/kg		0.41	mg/kg	0.000041 %		
26		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
27		pyrene		204-927-3	129-00-0		0.59	mg/kg		0.59	mg/kg	0.000059 %		
28		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
30		TPH (C6 to C40) petroleum group			TPH		284	mg/kg		284	mg/kg	0.0284 %		
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		135	mg/kg	1.245	168.036	mg/kg	0.0168 %		
32		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0749 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0284%)

Classification of sample: BAL02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BAL02

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		0.11 mg/kg		0.11 mg/kg	0.000011 %		
3	anthracene		204-371-1	120-12-7		0.49 mg/kg		0.49 mg/kg	0.000049 %		
4	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		16 mg/kg		16 mg/kg	0.0016 %		
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
6	benzo[ghi]perylene		205-883-8	191-24-2		0.41 mg/kg		0.41 mg/kg	0.000041 %		
7	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.41 mg/kg		0.41 mg/kg	0.000041 %		
8	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.57 mg/kg		0.57 mg/kg	0.000057 %		
9	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.73 mg/kg		0.73 mg/kg	0.000073 %		
10	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
11	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.5 mg/kg		3.5 mg/kg	0.00035 %		
12	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		60 mg/kg	1.462	87.693 mg/kg	0.00877 %		
13	chrysene	601-048-00-0	205-923-4	218-01-9		0.44 mg/kg		0.44 mg/kg	0.000044 %		
14	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		121 mg/kg	1.252	151.465 mg/kg	0.0151 %		
15	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.09	mg/kg		0.09	mg/kg	0.000009 %		
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		fluoranthene		205-912-4	206-44-0		0.93	mg/kg		0.93	mg/kg	0.000093 %		
19		fluorene		201-695-5	86-73-7		0.03	mg/kg		0.03	mg/kg	0.000003 %		
20		indeno[123-cd]pyrene		205-893-2	193-39-5		0.48	mg/kg		0.48	mg/kg	0.000048 %		
21		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	116	mg/kg		116	mg/kg	0.0116 %		
22		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.25	mg/kg		0.25	mg/kg	0.000025 %		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		0.08	mg/kg		0.08	mg/kg	0.000008 %		
24		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	61	mg/kg		61	mg/kg	0.0061 %		
25		phenanthrene		201-581-5	85-01-8		0.39	mg/kg		0.39	mg/kg	0.000039 %		
26		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
27		pyrene		204-927-3	129-00-0		0.88	mg/kg		0.88	mg/kg	0.000088 %		
28		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
30		TPH (C6 to C40) petroleum group			TPH		559	mg/kg		559	mg/kg	0.0559 %		
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		309	mg/kg	1.245	384.617	mg/kg	0.0385 %		
32		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.14 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0559%)

Classification of sample: BAL03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BAL03

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.02 mg/kg		0.02 mg/kg	0.000002 %		
2	acenaphthylene		205-917-1	208-96-8		0.03 mg/kg		0.03 mg/kg	0.000003 %		
3	anthracene		204-371-1	120-12-7		0.13 mg/kg		0.13 mg/kg	0.000013 %		
4	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5 mg/kg		5 mg/kg	0.0005 %		
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
6	benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
7	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.2 mg/kg		0.2 mg/kg	0.00002 %		
8	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
9	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
10	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
11	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30 mg/kg	1.462	43.847 mg/kg	0.00438 %		
13	chrysene	601-048-00-0	205-923-4	218-01-9		0.21 mg/kg		0.21 mg/kg	0.000021 %		
14	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		43 mg/kg	1.252	53.826 mg/kg	0.00538 %		
15	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		fluoranthene		205-912-4	206-44-0		0.46	mg/kg		0.46	mg/kg	0.000046 %		
19		fluorene		201-695-5	86-73-7		0.02	mg/kg		0.02	mg/kg	0.000002 %		
20		indeno[123-cd]pyrene		205-893-2	193-39-5		0.17	mg/kg		0.17	mg/kg	0.000017 %		
21		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24	mg/kg		24	mg/kg	0.0024 %		
22		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.85	mg/kg		1.85	mg/kg	0.000185 %		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
24		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26	mg/kg		26	mg/kg	0.0026 %		
25		phenanthrene		201-581-5	85-01-8		0.27	mg/kg		0.27	mg/kg	0.000027 %		
26		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
27		pyrene		204-927-3	129-00-0		0.44	mg/kg		0.44	mg/kg	0.000044 %		
28		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
30		TPH (C6 to C40) petroleum group			TPH		152	mg/kg		152	mg/kg	0.0152 %		
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		66	mg/kg	1.245	82.151	mg/kg	0.00822 %		
32		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0403 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0152%)

Classification of sample: BH301

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH301
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.39 mg/kg		0.39 mg/kg	0.000039 %		
2	acenaphthylene		205-917-1	208-96-8		6.64 mg/kg		6.64 mg/kg	0.000664 %		
3	anthracene		204-371-1	120-12-7		3.81 mg/kg		3.81 mg/kg	0.000381 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		21.3 mg/kg		21.3 mg/kg	0.00213 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		11.6 mg/kg		11.6 mg/kg	0.00116 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		24.7 mg/kg		24.7 mg/kg	0.00247 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		15.7 mg/kg		15.7 mg/kg	0.00157 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10 mg/kg	1.462	14.616 mg/kg	0.00146 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				17.2	mg/kg		17.2	mg/kg	0.00172 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				59	mg/kg	1.252	73.855	mg/kg	0.00739 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		**<LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				2.66	mg/kg		2.66	mg/kg	0.000266 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				17.9	mg/kg		17.9	mg/kg	0.00179 %		
			205-912-4	206-44-0									
21		fluorene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				14.1	mg/kg		14.1	mg/kg	0.00141 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	113	mg/kg		113	mg/kg	0.0113 %		
		082-001-00-6											
24		mercury { mercury }				0.52	mg/kg		0.52	mg/kg	0.000052 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				1.28	mg/kg		1.28	mg/kg	0.000128 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	12	mg/kg		12	mg/kg	0.0012 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				3.73	mg/kg		3.73	mg/kg	0.000373 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		**<LOD**
				P1186									
29		pyrene				47.6	mg/kg		47.6	mg/kg	0.00476 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				824	mg/kg		824	mg/kg	0.0824 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				14	mg/kg	1.785	24.993	mg/kg	0.0025 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				39	mg/kg	1.245	48.544	mg/kg	0.00485 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.133 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0824%)

Classification of sample: BH301[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH301[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
9.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	•	TPH (C6 to C40) petroleum group		TPH		19 mg/kg		19 mg/kg	0.0019 %		
								Total:	0.0019 %		

Key

- User supplied data
- • Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0019%)

Classification of sample: BH301C

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH301C
Sample Depth:
1.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.02 mg/kg		0.02 mg/kg	0.000002 %		
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		0.06 mg/kg		0.06 mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9 mg/kg		9 mg/kg	0.0009 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.09 mg/kg		0.09 mg/kg	0.000009 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.07 mg/kg		0.07 mg/kg	0.000007 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				49	mg/kg	1.252	61.337	mg/kg	0.00613 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-912-4	206-44-0									
21		fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	99	mg/kg		99	mg/kg	0.0099 %		
		082-001-00-6											
24		mercury { mercury }				0.37	mg/kg		0.37	mg/kg	0.000037 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	24	mg/kg		24	mg/kg	0.0024 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				18	mg/kg		18	mg/kg	0.0018 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				68	mg/kg	1.245	84.641	mg/kg	0.00846 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.039 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Classification of sample: BH301D

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH301D	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		350 mg/kg		350 mg/kg	0.035 %		
								Total:	0.035 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.035%)

Classification of sample: BH301D[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH301D[2]
Sample Depth:
2.9 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
2	acenaphthylene		205-917-1	208-96-8		1.67 mg/kg		1.67 mg/kg	0.000167 %		
3	anthracene		204-371-1	120-12-7		0.54 mg/kg		0.54 mg/kg	0.000054 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7 mg/kg		7 mg/kg	0.0007 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		3.76 mg/kg		3.76 mg/kg	0.000376 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.41 mg/kg		0.41 mg/kg	0.000041 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.66 mg/kg		4.66 mg/kg	0.000466 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.38 mg/kg		2.38 mg/kg	0.000238 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.8 mg/kg		0.8 mg/kg	0.00008 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.72	mg/kg		0.72	mg/kg	0.000072 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				25	mg/kg	1.252	31.294	mg/kg	0.00313 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-912-4	206-44-0									
21		fluorene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				2.62	mg/kg		2.62	mg/kg	0.000262 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %		
		082-001-00-6											
24		mercury { mercury }				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				2.86	mg/kg		2.86	mg/kg	0.000286 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	13	mg/kg		13	mg/kg	0.0013 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				1.15	mg/kg		1.15	mg/kg	0.000115 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				202	mg/kg		202	mg/kg	0.0202 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				35	mg/kg	1.245	43.565	mg/kg	0.00436 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0492 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0202%)

Classification of sample: BH302

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH302
Sample Depth:
12 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7 mg/kg		7 mg/kg	0.0007 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1 mg/kg		1 mg/kg	0.0001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		37 mg/kg	1.462	54.078 mg/kg	0.00541 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		15	mg/kg	1.252	18.777	mg/kg	0.00188 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	102	mg/kg		102	mg/kg	0.0102 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	40	mg/kg		40	mg/kg	0.004 %		
27		phenanthrene		201-581-5	85-01-8		0.06	mg/kg		0.06	mg/kg	0.000006 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		7	mg/kg		7	mg/kg	0.0007 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		47	mg/kg	1.245	58.502	mg/kg	0.00585 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0373 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0007%)

Classification of sample: BH302[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH302[2]
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		70 mg/kg		70 mg/kg	0.007 %		
								Total:	0.007 %		

Key

User supplied data
● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.007%)

Classification of sample: BH303

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH303
Sample Depth:
0.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
2		acenaphthylene		205-917-1	208-96-8		0.01	mg/kg		0.01	mg/kg	0.000001 %		
3		anthracene		204-371-1	120-12-7		0.13	mg/kg		0.13	mg/kg	0.000013 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		45	mg/kg		45	mg/kg	0.0045 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.15	mg/kg		0.15	mg/kg	0.000015 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.34	mg/kg		0.34	mg/kg	0.000034 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.28	mg/kg		0.28	mg/kg	0.000028 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.37	mg/kg		0.37	mg/kg	0.000037 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.5	mg/kg		3.5	mg/kg	0.00035 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15	mg/kg	1.462	21.923	mg/kg	0.00219 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.43	mg/kg		0.43	mg/kg	0.000043 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		92	mg/kg	1.252	115.163	mg/kg	0.0115 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.75	mg/kg		0.75	mg/kg	0.000075 %		
21		fluorene		201-695-5	86-73-7		0.07	mg/kg		0.07	mg/kg	0.000007 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.16	mg/kg		0.16	mg/kg	0.000016 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	130	mg/kg		130	mg/kg	0.013 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.23	mg/kg		0.23	mg/kg	0.000023 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22	mg/kg		22	mg/kg	0.0022 %		
27		phenanthrene		201-581-5	85-01-8		0.86	mg/kg		0.86	mg/kg	0.000086 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		0.74	mg/kg		0.74	mg/kg	0.000074 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		2	mg/kg		2	mg/kg	0.0002 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		292	mg/kg		292	mg/kg	0.0292 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		355	mg/kg	1.245	441.873	mg/kg	0.0442 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.114 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0292%)

Classification of sample: BH303[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH303[2]
Sample Depth:
7.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		37 mg/kg		37 mg/kg	0.0037 %		
								Total:	0.0037 %		

Key

User supplied data
● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0037%)

Classification of sample: BH304

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH304
Sample Depth:
5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1.23 mg/kg		1.23 mg/kg	0.000123 %		
2	acenaphthylene		205-917-1	208-96-8		0.03 mg/kg		0.03 mg/kg	0.000003 %		
3	anthracene		204-371-1	120-12-7		1.35 mg/kg		1.35 mg/kg	0.000135 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		27 mg/kg		27 mg/kg	0.0027 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.44 mg/kg		0.44 mg/kg	0.000044 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.95 mg/kg		1.95 mg/kg	0.000195 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.31 mg/kg		1.31 mg/kg	0.000131 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.56 mg/kg		1.56 mg/kg	0.000156 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.3 mg/kg		2.3 mg/kg	0.00023 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				1.97	mg/kg		1.97	mg/kg	0.000197 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				103	mg/kg	1.252	128.933	mg/kg	0.0129 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				5.41	mg/kg		5.41	mg/kg	0.000541 %		
			205-912-4	206-44-0									
21		fluorene				0.81	mg/kg		0.81	mg/kg	0.000081 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	90	mg/kg		90	mg/kg	0.009 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				2.03	mg/kg		2.03	mg/kg	0.000203 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	43	mg/kg		43	mg/kg	0.0043 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				7.43	mg/kg		7.43	mg/kg	0.000743 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				5.02	mg/kg		5.02	mg/kg	0.000502 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				16	mg/kg		16	mg/kg	0.0016 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				224	mg/kg	1.245	278.816	mg/kg	0.0279 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0705 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0016%)

Classification of sample: BH304[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH304[2]
Sample Depth:
0.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
2	acenaphthylene		205-917-1	208-96-8		0.02 mg/kg		0.02 mg/kg	0.000002 %		
3	anthracene		204-371-1	120-12-7		0.23 mg/kg		0.23 mg/kg	0.000023 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.4 mg/kg		0.4 mg/kg	0.00004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.14 mg/kg		1.14 mg/kg	0.000114 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.05 mg/kg		1.05 mg/kg	0.000105 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.26 mg/kg		1.26 mg/kg	0.000126 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	4.7 mg/kg		4.7 mg/kg	0.00047 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.16	mg/kg		1.16	mg/kg	0.000116 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		182	mg/kg	1.252	227.823	mg/kg	0.0228 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.13	mg/kg		0.13	mg/kg	0.000013 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		1.85	mg/kg		1.85	mg/kg	0.000185 %		
21		fluorene		201-695-5	86-73-7		0.08	mg/kg		0.08	mg/kg	0.000008 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.49	mg/kg		0.49	mg/kg	0.000049 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	547	mg/kg		547	mg/kg	0.0547 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<**LOD**
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.36	mg/kg		0.36	mg/kg	0.000036 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29	mg/kg		29	mg/kg	0.0029 %		
27		phenanthrene		201-581-5	85-01-8		1.01	mg/kg		1.01	mg/kg	0.000101 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
29		pyrene		204-927-3	129-00-0		1.8	mg/kg		1.8	mg/kg	0.00018 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		176	mg/kg		176	mg/kg	0.0176 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		48	mg/kg	1.785	85.689	mg/kg	0.00857 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1300	mg/kg	1.245	1618.128	mg/kg	0.162 %		
											Total:	0.276 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0176%)

Classification of sample: BH304[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH304[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		14 mg/kg		14 mg/kg	0.0014 %		
								Total:	0.0014 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0014%)

Classification of sample: BH304[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH304[4]
Sample Depth:
14 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
				TPH							
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH304[5]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH304[5]
Sample Depth:
13 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.01 mg/kg		0.01 mg/kg	0.000001 %		
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.04 mg/kg		0.04 mg/kg	0.000004 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5 mg/kg		5 mg/kg	0.0005 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.07 mg/kg		0.07 mg/kg	0.000007 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.07 mg/kg		0.07 mg/kg	0.000007 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				31	mg/kg	1.252	38.805	mg/kg	0.00388 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-912-4	206-44-0									
21		fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	27	mg/kg		27	mg/kg	0.0027 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	21	mg/kg		21	mg/kg	0.0021 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				264.01	mg/kg		264.01	mg/kg	0.0264 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				69	mg/kg	1.245	85.885	mg/kg	0.00859 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0505 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0264%)

Classification of sample: BH305

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH305	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		76 mg/kg		76 mg/kg	0.0076 %		
								Total:	0.0076 %		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0076%)

Classification of sample: BH305[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH305[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.72	mg/kg		0.72	mg/kg	0.000072 %		
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.72	mg/kg		0.72	mg/kg	0.000072 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		27	mg/kg		27	mg/kg	0.0027 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		2.26	mg/kg		2.26	mg/kg	0.000226 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.43	mg/kg		3.43	mg/kg	0.000343 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.27	mg/kg		4.27	mg/kg	0.000427 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		5.14	mg/kg		5.14	mg/kg	0.000514 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6	mg/kg		1.6	mg/kg	0.00016 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.4	mg/kg		1.4	mg/kg	0.00014 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		4.74	mg/kg		4.74	mg/kg	0.000474 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		110	mg/kg	1.252	137.695	mg/kg	0.0138 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.53	mg/kg		0.53	mg/kg	0.000053 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		fluoranthene		205-912-4	206-44-0		7.32	mg/kg		7.32	mg/kg	0.000732 %		
21		fluorene		201-695-5	86-73-7		0.34	mg/kg		0.34	mg/kg	0.000034 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		2.19	mg/kg		2.19	mg/kg	0.000219 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	79	mg/kg		79	mg/kg	0.0079 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		1.37	mg/kg		1.37	mg/kg	0.000137 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26	mg/kg		26	mg/kg	0.0026 %		
27		phenanthrene		201-581-5	85-01-8		5.17	mg/kg		5.17	mg/kg	0.000517 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		7.76	mg/kg		7.76	mg/kg	0.000776 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		2	mg/kg		2	mg/kg	0.0002 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		736	mg/kg		736	mg/kg	0.0736 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	136.919	mg/kg	0.0137 %		
											Total:	0.128 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0736%)

Classification of sample: BH306

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH306	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.518%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.18%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.518%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.518%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

copper(II) oxide: (compound conc.: 0.146%)
lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.18%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-469-6	83-32-9									
2		acenaphthylene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
			205-917-1	208-96-8									
3		anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-371-1	120-12-7									
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	14	mg/kg		14	mg/kg	0.0014 %		
		051-003-00-9											
5		arsenic { arsenic }				27	mg/kg		27	mg/kg	0.0027 %		
		033-001-00-X	231-148-6	7440-38-2									
6		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
7		benzo[ghi]perylene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-883-8	191-24-2									
8		benzo[a]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-033-00-9	200-280-6	56-55-3									
9		benzo[a]pyrene; benzo[def]chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-032-00-3	200-028-5	50-32-8									
10		benzo[bk]fluoranthene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
11		beryllium { beryllium }				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		004-001-00-7	231-150-7	7440-41-7									
12		boron { boric acid [1] boric acid [2] }				<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
		005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]									
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex			1	3.1	mg/kg		3.1	mg/kg	0.00031 %		
		048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }				28	mg/kg	1.462	40.924	mg/kg	0.00409 %		
			215-160-9	1308-38-9									
15		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				1170	mg/kg	1.252	1464.579	mg/kg	0.146 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			205-912-4	206-44-0									
21		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1800	mg/kg		1800	mg/kg	0.18 %		
		082-001-00-6											

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
24		mercury { mercury }				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	49	mg/kg		49	mg/kg	0.0049 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				5175	mg/kg		5175	mg/kg	0.518 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				30	mg/kg	1.785	53.556	mg/kg	0.00536 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				659	mg/kg	1.245	820.267	mg/kg	0.082 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.946 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH306[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH306[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.172%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.172%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.172%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		1720 mg/kg		1720 mg/kg	0.172 %		
								Total:	0.172 %		

Key

	User supplied data
	Hazardous result
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: BH307

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH307
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.02 mg/kg		0.02 mg/kg	0.000002 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	56 mg/kg		56 mg/kg	0.0056 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		44 mg/kg		44 mg/kg	0.0044 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.28 mg/kg		0.28 mg/kg	0.000028 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.27 mg/kg	0.000027 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.37 mg/kg		0.37 mg/kg	0.000037 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.52 mg/kg		0.52 mg/kg	0.000052 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.3 mg/kg		2.3 mg/kg	0.00023 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.28	mg/kg		0.28	mg/kg	0.000028 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		420	mg/kg	1.252	525.746	mg/kg	0.0526 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.47	mg/kg		0.47	mg/kg	0.000047 %		
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.3	mg/kg		0.3	mg/kg	0.00003 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	283	mg/kg		283	mg/kg	0.0283 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	40	mg/kg		40	mg/kg	0.004 %		
27		phenanthrene		201-581-5	85-01-8		0.17	mg/kg		0.17	mg/kg	0.000017 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		0.46	mg/kg		0.46	mg/kg	0.000046 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		17	mg/kg		17	mg/kg	0.0017 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	51.77	mg/kg	0.00518 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		147	mg/kg	1.245	182.973	mg/kg	0.0183 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.125 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: BH308

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH308	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	•	TPH (C6 to C40) petroleum group		TPH		697 mg/kg		697 mg/kg	0.0697 %		
								Total:	0.0697 %		

Key

User supplied data

• Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0697%)

Classification of sample: BH308[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
BH308[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.115%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		0.03 mg/kg		0.03 mg/kg	0.000003 %		
3	anthracene		204-371-1	120-12-7		0.06 mg/kg		0.06 mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	131 mg/kg		131 mg/kg	0.0131 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		47 mg/kg		47 mg/kg	0.0047 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.18 mg/kg		0.18 mg/kg	0.000018 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.22 mg/kg		0.22 mg/kg	0.000022 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.28 mg/kg		0.28 mg/kg	0.000028 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.4 mg/kg		2.4 mg/kg	0.00024 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	3 mg/kg		3 mg/kg	0.0003 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25	mg/kg	1.462	36.539	mg/kg	0.00365 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		231	mg/kg	1.252	289.16	mg/kg	0.0289 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		**<LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		**<LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		0.32	mg/kg		0.32	mg/kg	0.000032 %		
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1150	mg/kg		1150	mg/kg	0.115 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.37	mg/kg		0.37	mg/kg	0.000037 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	49	mg/kg		49	mg/kg	0.0049 %		
27		phenanthrene		201-581-5	85-01-8		0.17	mg/kg		0.17	mg/kg	0.000017 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		**<LOD**
29		pyrene		204-927-3	129-00-0		0.32	mg/kg		0.32	mg/kg	0.000032 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		2	mg/kg		2	mg/kg	0.0002 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		517	mg/kg		517	mg/kg	0.0517 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		99	mg/kg	1.245	123.227	mg/kg	0.0123 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
											Total:	0.243 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0517%)

Classification of sample: BH309

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH309	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH309[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH309[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.02	mg/kg		0.02	mg/kg	0.000002 %		
2	acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		25	mg/kg		25	mg/kg	0.0025 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.2	mg/kg		1.2	mg/kg	0.00012 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	33.616	mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				71	mg/kg	1.252	88.876	mg/kg	0.00889 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-912-4	206-44-0									
21		fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	169	mg/kg		169	mg/kg	0.0169 %		
		082-001-00-6											
24		mercury { mercury }				0.57	mg/kg		0.57	mg/kg	0.000057 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	18	mg/kg		18	mg/kg	0.0018 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				69	mg/kg		69	mg/kg	0.0069 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				59	mg/kg	1.245	73.438	mg/kg	0.00734 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0527 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0069%)

Classification of sample: BH310

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH310
Sample Depth:
5.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.01	mg/kg		0.01	mg/kg	0.000001 %		
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		2	mg/kg		2	mg/kg	0.0002 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6	mg/kg	1.462	8.769	mg/kg	0.000877 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		6	mg/kg	1.252	7.511	mg/kg	0.000751 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1	mg/kg	1.884	1.884	mg/kg	0.000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		0.01	mg/kg		0.01	mg/kg	0.000001 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9	mg/kg		9	mg/kg	0.0009 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	7	mg/kg		7	mg/kg	0.0007 %		
27		phenanthrene		201-581-5	85-01-8		0.13	mg/kg		0.13	mg/kg	0.000013 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		306	mg/kg		306	mg/kg	0.0306 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7	mg/kg	1.785	12.496	mg/kg	0.00125 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		17	mg/kg	1.245	21.16	mg/kg	0.00212 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0392 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0306%)

Classification of sample: BH310[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH310[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
3.4 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
2	•	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
3		toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
								Total:	3.0e-07 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH310[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH310[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH313

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH313
Sample Depth:
0.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.03 mg/kg		0.03 mg/kg	0.000003 %		
2	acenaphthylene		205-917-1	208-96-8		0.02 mg/kg		0.02 mg/kg	0.000002 %		
3	anthracene		204-371-1	120-12-7		0.07 mg/kg		0.07 mg/kg	0.000007 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		13 mg/kg		13 mg/kg	0.0013 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.13 mg/kg		0.13 mg/kg	0.000013 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.27 mg/kg	0.000027 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.32 mg/kg		0.32 mg/kg	0.000032 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.3 mg/kg		0.3 mg/kg	0.00003 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				36	mg/kg	1.252	45.064	mg/kg	0.00451 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
			205-912-4	206-44-0									
21		fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	74	mg/kg		74	mg/kg	0.0074 %		
		082-001-00-6											
24		mercury { mercury }				0.61	mg/kg		0.61	mg/kg	0.000061 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	22	mg/kg		22	mg/kg	0.0022 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				0.65	mg/kg		0.65	mg/kg	0.000065 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				97	mg/kg		97	mg/kg	0.0097 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				59	mg/kg	1.245	73.438	mg/kg	0.00734 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0433 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0097%)

Classification of sample: BH313[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH313[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	•	TPH (C6 to C40) petroleum group		TPH		17 mg/kg		17 mg/kg	0.0017 %		
								Total:	0.0017 %		

Key

User supplied data

• Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: BH320

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH320
Sample Depth:
4.35 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		57 mg/kg		57 mg/kg	0.0057 %		
								Total:	0.0057 %		

Key

User supplied data
● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0057%)

Classification of sample: BH320[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH320[2]
Sample Depth:
6 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		1.92	mg/kg		1.92	mg/kg	0.000192 %		
2		acenaphthylene		205-917-1	208-96-8		0.5	mg/kg		0.5	mg/kg	0.00005 %		
3		anthracene		204-371-1	120-12-7		1	mg/kg		1	mg/kg	0.0001 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.86	mg/kg		0.86	mg/kg	0.000086 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.33	mg/kg		1.33	mg/kg	0.000133 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.72	mg/kg		1.72	mg/kg	0.000172 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1	mg/kg		1	mg/kg	0.0001 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9	mg/kg	1.462	13.154	mg/kg	0.00132 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.35	mg/kg		1.35	mg/kg	0.000135 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		5	mg/kg	1.252	6.259	mg/kg	0.000626 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.11	mg/kg		0.11	mg/kg	0.000011 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		2.1	mg/kg		2.1	mg/kg	0.00021 %		
21		fluorene		201-695-5	86-73-7		0.62	mg/kg		0.62	mg/kg	0.000062 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.56	mg/kg		0.56	mg/kg	0.000056 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	4	mg/kg		4	mg/kg	0.0004 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		2.27	mg/kg		2.27	mg/kg	0.000227 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	4	mg/kg		4	mg/kg	0.0004 %		
27		phenanthrene		201-581-5	85-01-8		1.5	mg/kg		1.5	mg/kg	0.00015 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		5.12	mg/kg		5.12	mg/kg	0.000512 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		348	mg/kg		348	mg/kg	0.0348 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5	mg/kg	1.785	8.926	mg/kg	0.000893 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		12	mg/kg	1.245	14.937	mg/kg	0.00149 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.044 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0348%)

Classification of sample: BH322

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH322	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		68 mg/kg		68 mg/kg	0.0068 %		
								Total:	0.0068 %		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0068%)

Classification of sample: BH323

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH323	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		43 mg/kg		43 mg/kg	0.0043 %		
								Total:	0.0043 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0043%)

Classification of sample: BH323[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH323[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.141%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.141%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.141%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		19.9 mg/kg		19.9 mg/kg	0.00199 %		
2	acenaphthylene		205-917-1	208-96-8		1.48 mg/kg		1.48 mg/kg	0.000148 %		
3	anthracene		204-371-1	120-12-7		31.4 mg/kg		31.4 mg/kg	0.00314 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		11.6	mg/kg		11.6	mg/kg	0.00116 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		37	mg/kg		37	mg/kg	0.0037 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		22.8	mg/kg		22.8	mg/kg	0.00228 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		24.2	mg/kg		24.2	mg/kg	0.00242 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3	mg/kg		3	mg/kg	0.0003 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29	mg/kg	1.462	42.385	mg/kg	0.00424 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		45.4	mg/kg		45.4	mg/kg	0.00454 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		148	mg/kg	1.252	185.263	mg/kg	0.0185 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2	mg/kg	1.884	3.768	mg/kg	0.000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		3.56	mg/kg		3.56	mg/kg	0.000356 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		81.8	mg/kg		81.8	mg/kg	0.00818 %		
21		fluorene		201-695-5	86-73-7		21.9	mg/kg		21.9	mg/kg	0.00219 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		13.1	mg/kg		13.1	mg/kg	0.00131 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	162	mg/kg		162	mg/kg	0.0162 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.51	mg/kg		0.51	mg/kg	0.000051 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		27	mg/kg		27	mg/kg	0.0027 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26	mg/kg		26	mg/kg	0.0026 %		
27		phenanthrene		201-581-5	85-01-8		127	mg/kg		127	mg/kg	0.0127 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		79.8	mg/kg		79.8	mg/kg	0.00798 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				1410	mg/kg		1410	mg/kg	0.141 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				338	mg/kg	1.245	420.713	mg/kg	0.0421 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.286 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH324

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH324	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1	●	TPH (C6 to C40) petroleum group		TPH		20	mg/kg		20	mg/kg	0.002 %		
										Total:	0.002 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.002%)

Classification of sample: BH324[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH324[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		2.02 mg/kg		2.02 mg/kg	0.000202 %		
2	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
3	anthracene		204-371-1	120-12-7		2.07 mg/kg		2.07 mg/kg	0.000207 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		37 mg/kg		37 mg/kg	0.0037 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.72 mg/kg		0.72 mg/kg	0.000072 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.52 mg/kg		3.52 mg/kg	0.000352 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.54 mg/kg		2.54 mg/kg	0.000254 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.6 mg/kg		2.6 mg/kg	0.00026 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.4 mg/kg		1.4 mg/kg	0.00014 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.5 mg/kg		2.5 mg/kg	0.00025 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				142	mg/kg	1.252	177.752	mg/kg	0.0178 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		**<LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				8.04	mg/kg		8.04	mg/kg	0.000804 %		
			205-912-4	206-44-0									
21		fluorene				1.37	mg/kg		1.37	mg/kg	0.000137 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.97	mg/kg		0.97	mg/kg	0.000097 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	320	mg/kg		320	mg/kg	0.032 %		
		082-001-00-6											
24		mercury { mercury }				0.99	mg/kg		0.99	mg/kg	0.000099 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				10.2	mg/kg		10.2	mg/kg	0.00102 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				11.5	mg/kg		11.5	mg/kg	0.00115 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		**<LOD**
				P1186									
29		pyrene				7.22	mg/kg		7.22	mg/kg	0.000722 %		
			204-927-3	129-00-0									
30		selenium { selenium }				2	mg/kg		2	mg/kg	0.0002 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				672	mg/kg		672	mg/kg	0.0672 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				34	mg/kg	1.785	60.696	mg/kg	0.00607 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				226	mg/kg	1.245	281.305	mg/kg	0.0281 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0672%)

Classification of sample: BH326

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH326
Sample Depth:
1.4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.01	mg/kg		0.01	mg/kg	0.000001 %		
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
3		anthracene		204-371-1	120-12-7		0.05	mg/kg		0.05	mg/kg	0.000005 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6	mg/kg		6	mg/kg	0.0006 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		16	mg/kg		16	mg/kg	0.0016 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.08	mg/kg		0.08	mg/kg	0.000008 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		3.6	mg/kg		3.6	mg/kg	0.00036 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.3	mg/kg		3.3	mg/kg	0.00033 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24	mg/kg	1.462	35.077	mg/kg	0.00351 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				179	mg/kg	1.252	224.068	mg/kg	0.0224 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-912-4	206-44-0									
21		fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	109	mg/kg		109	mg/kg	0.0109 %		
		082-001-00-6											
24		mercury { mercury }				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	48	mg/kg		48	mg/kg	0.0048 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				58	mg/kg		58	mg/kg	0.0058 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				46	mg/kg	1.785	82.119	mg/kg	0.00821 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				117	mg/kg	1.245	145.632	mg/kg	0.0146 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0742 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0058%)

Classification of sample: BH326[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
BH326[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
3.4 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
				TPH							
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH327

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH327	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH327[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH327[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
7.4 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.102%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	9 mg/kg		9 mg/kg	0.0009 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		42 mg/kg		42 mg/kg	0.0042 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.08 mg/kg		0.08 mg/kg	0.000008 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.11 mg/kg		0.11 mg/kg	0.000011 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.12 mg/kg		0.12 mg/kg	0.000012 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.12 mg/kg		0.12 mg/kg	0.000012 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.4 mg/kg		2.4 mg/kg	0.00024 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	5 mg/kg		5 mg/kg	0.0005 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25	mg/kg	1.462	36.539	mg/kg	0.00365 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		460	mg/kg	1.252	575.817	mg/kg	0.0576 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				4	mg/kg	1.884	7.536	mg/kg	0.000754 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.31	mg/kg		0.31	mg/kg	0.000031 %		
21		fluorene		201-695-5	86-73-7		0.01	mg/kg		0.01	mg/kg	0.000001 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1020	mg/kg		1020	mg/kg	0.102 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.36	mg/kg		1.36	mg/kg	0.000136 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.08	mg/kg		0.08	mg/kg	0.000008 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	46	mg/kg		46	mg/kg	0.0046 %		
27		phenanthrene		201-581-5	85-01-8		0.31	mg/kg		0.31	mg/kg	0.000031 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		0.35	mg/kg		0.35	mg/kg	0.000035 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		2	mg/kg		2	mg/kg	0.0002 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		22	mg/kg		22	mg/kg	0.0022 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		56	mg/kg	1.785	99.97	mg/kg	0.01 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		908	mg/kg	1.245	1130.2	mg/kg	0.113 %		
											Total:	0.301 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0022%)

Classification of sample: BH328

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH328	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		222 mg/kg		222 mg/kg	0.0222 %		
								Total:	0.0222 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0222%)

Classification of sample: BH328[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH328[2]
Sample Depth:
2.4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		0.16 mg/kg		0.16 mg/kg	0.000016 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5 mg/kg		5 mg/kg	0.0005 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		59 mg/kg		59 mg/kg	0.0059 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.11 mg/kg		0.11 mg/kg	0.000011 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.29 mg/kg		0.29 mg/kg	0.000029 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.2 mg/kg		0.2 mg/kg	0.00002 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.9 mg/kg		3.9 mg/kg	0.00039 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.36	mg/kg		0.36	mg/kg	0.000036 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				158	mg/kg	1.252	197.781	mg/kg	0.0198 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.79	mg/kg		0.79	mg/kg	0.000079 %		
			205-912-4	206-44-0									
21		fluorene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	173	mg/kg		173	mg/kg	0.0173 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<**LOD**
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				1.97	mg/kg		1.97	mg/kg	0.000197 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	29	mg/kg		29	mg/kg	0.0029 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1.52	mg/kg		1.52	mg/kg	0.000152 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
30		selenium { selenium }				2	mg/kg		2	mg/kg	0.0002 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				406	mg/kg		406	mg/kg	0.0406 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				52	mg/kg	1.785	92.83	mg/kg	0.00928 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				264	mg/kg	1.245	328.604	mg/kg	0.0329 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.134 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0406%)

Classification of sample: GEO_BH201

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH201	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.18	mg/kg		0.18	mg/kg	0.000018 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1	mg/kg		1	mg/kg	0.0001 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.5	mg/kg		5.5	mg/kg	0.00055 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.06	mg/kg		0.06	mg/kg	0.000006 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.09	mg/kg		0.09	mg/kg	0.000009 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.07	mg/kg		0.07	mg/kg	0.000007 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2	mg/kg	5.719	1.144	mg/kg	0.000114 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	16.077	mg/kg	0.00161 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.14	mg/kg		0.14	mg/kg	0.000014 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		33	mg/kg	1.252	41.309	mg/kg	0.00413 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		0.32	mg/kg		0.32	mg/kg	0.000032 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.05	mg/kg		0.05	mg/kg	0.000005 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	27	mg/kg		27	mg/kg	0.0027 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.03	mg/kg		0.03	mg/kg	0.000003 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	9.8	mg/kg		9.8	mg/kg	0.00098 %		
27		phenanthrene		201-581-5	85-01-8		0.14	mg/kg		0.14	mg/kg	0.000014 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		0.26	mg/kg		0.26	mg/kg	0.000026 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.0221 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH202

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH202	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.4 mg/kg		8.4 mg/kg	0.00084 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		56 mg/kg	1.252	70.099 mg/kg	0.00701 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		**<LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	48 mg/kg		48 mg/kg	0.0048 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.16 mg/kg		0.16 mg/kg	0.000016 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21 mg/kg		21 mg/kg	0.0021 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				83	mg/kg	1.245	103.311	mg/kg	0.0103 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0326 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH202[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH202[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
2	acenaphthylene		205-917-1	208-96-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
3	anthracene		204-371-1	120-12-7		0.38 mg/kg		0.38 mg/kg	0.000038 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.2 mg/kg		2.2 mg/kg	0.00022 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		15 mg/kg		15 mg/kg	0.0015 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.49 mg/kg		0.49 mg/kg	0.000049 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.31 mg/kg		0.31 mg/kg	0.000031 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.39 mg/kg		0.39 mg/kg	0.000039 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.58	mg/kg		0.58	mg/kg	0.000058 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		120	mg/kg	1.252	150.213	mg/kg	0.015 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		1.9	mg/kg		1.9	mg/kg	0.00019 %		
21		fluorene		201-695-5	86-73-7		0.29	mg/kg		0.29	mg/kg	0.000029 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.12	mg/kg		0.12	mg/kg	0.000012 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	140	mg/kg		140	mg/kg	0.014 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.45	mg/kg		0.45	mg/kg	0.000045 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.27	mg/kg		0.27	mg/kg	0.000027 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	30	mg/kg		30	mg/kg	0.003 %		
27		phenanthrene		201-581-5	85-01-8		2.2	mg/kg		2.2	mg/kg	0.00022 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		1.8	mg/kg		1.8	mg/kg	0.00018 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		52.5	mg/kg		52.5	mg/kg	0.00525 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		190	mg/kg	1.245	236.496	mg/kg	0.0236 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.0735 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00525%)

Classification of sample: GEO_BH203

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
GEO_BH203
Sample Depth:
11.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

copper(II) oxide: (compound conc.: 0.939%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.7 mg/kg		9.7 mg/kg	0.00097 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		7500 mg/kg	1.252	9388.325 mg/kg	0.939 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1 mg/kg	1.884	0.188 mg/kg	0.0000188 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	63 mg/kg		63 mg/kg	0.0063 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11		nickel { nickel }			7	19	mg/kg		19	mg/kg	0.0019 %		
		028-002-00-7	231-111-4	7440-02-0									
12		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				330	mg/kg	1.245	410.756	mg/kg	0.0411 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.996 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH203[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH203[2]
Sample Depth:
0.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.09 mg/kg		0.09 mg/kg	0.000009 %		
2	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
3	anthracene		204-371-1	120-12-7		0.23 mg/kg		0.23 mg/kg	0.000023 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.7 mg/kg		2.7 mg/kg	0.00027 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		32 mg/kg		32 mg/kg	0.0032 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.27 mg/kg		0.27 mg/kg	0.000027 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.48 mg/kg		0.48 mg/kg	0.000048 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.41 mg/kg		0.41 mg/kg	0.000041 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.51 mg/kg		0.51 mg/kg	0.000051 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.61	mg/kg		0.61	mg/kg	0.000061 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				62	mg/kg	1.252	77.61	mg/kg	0.00776 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
21		fluorene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	54	mg/kg		54	mg/kg	0.0054 %		
		082-001-00-6											
24		mercury { mercury }				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	34	mg/kg		34	mg/kg	0.0034 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
29		pyrene				2	mg/kg		2	mg/kg	0.0002 %		
			204-927-3	129-00-0									
30		selenium { selenium }				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				110	mg/kg	1.785	196.37	mg/kg	0.0196 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				240	mg/kg	1.245	298.731	mg/kg	0.0299 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0746 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH203[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH203[3]
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				240	mg/kg		240	mg/kg	0.024 %		
				TPH									
										Total:	0.024 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.024%)

Classification of sample: GEO_BH203[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH203[4]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
6.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1.3 mg/kg		1.3 mg/kg	0.00013 %		
2	acenaphthylene		205-917-1	208-96-8		0.3 mg/kg		0.3 mg/kg	0.00003 %		
3	anthracene		204-371-1	120-12-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	7.3 mg/kg		7.3 mg/kg	0.00073 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		20 mg/kg		20 mg/kg	0.002 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		0.12 mg/kg		0.12 mg/kg	0.000012 %		
7	benzo[ghi]perylene		205-883-8	191-24-2		0.48 mg/kg		0.48 mg/kg	0.000048 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.84 mg/kg		0.84 mg/kg	0.000084 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.8 mg/kg		0.8 mg/kg	0.00008 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.62 mg/kg		0.62 mg/kg	0.000062 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.83	mg/kg		0.83	mg/kg	0.000083 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		150	mg/kg	1.252	187.766	mg/kg	0.0188 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.22	mg/kg		0.22	mg/kg	0.000022 %		
20		fluoranthene		205-912-4	206-44-0		2.4	mg/kg		2.4	mg/kg	0.00024 %		
21		fluorene		201-695-5	86-73-7		1.4	mg/kg		1.4	mg/kg	0.00014 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.26	mg/kg		0.26	mg/kg	0.000026 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	200	mg/kg		200	mg/kg	0.02 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.8	mg/kg		1.8	mg/kg	0.00018 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		2.2	mg/kg		2.2	mg/kg	0.00022 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29	mg/kg		29	mg/kg	0.0029 %		
27		phenanthrene		201-581-5	85-01-8		7.1	mg/kg		7.1	mg/kg	0.00071 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		4.6	mg/kg		4.6	mg/kg	0.00046 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		118.6	mg/kg		118.6	mg/kg	0.0119 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		47	mg/kg	1.785	83.904	mg/kg	0.00839 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		260	mg/kg	1.245	323.626	mg/kg	0.0324 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.103 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00001%)
ethylbenzene: (conc.: 0.00002%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0119%)

Classification of sample: GEO_BH204

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH204
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.9 mg/kg		3.9 mg/kg	0.00039 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		29 mg/kg		29 mg/kg	0.0029 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.4 mg/kg		1.4 mg/kg	0.00014 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		180 mg/kg	1.252	225.32 mg/kg	0.0225 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1.7 mg/kg	1.884	3.203 mg/kg	0.00032 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	280 mg/kg		280 mg/kg	0.028 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		24 mg/kg		24 mg/kg	0.0024 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29 mg/kg		29 mg/kg	0.0029 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				46	mg/kg	1.785	82.119	mg/kg	0.00821 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				220	mg/kg	1.245	273.837	mg/kg	0.0274 %		
		030-013-00-7	215-222-5	1314-13-2									
16		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0985 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH205

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH205
Sample Depth:
1.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.6 mg/kg		6.6 mg/kg	0.00066 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				18	mg/kg	1.252	22.532	mg/kg	0.00225 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	9.8	mg/kg		9.8	mg/kg	0.00098 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	18	mg/kg		18	mg/kg	0.0018 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				41	mg/kg	1.245	51.033	mg/kg	0.0051 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH205[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH205[2]
Sample Depth:
2.8 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.7 mg/kg		6.7 mg/kg	0.00067 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				13	mg/kg	1.252	16.273	mg/kg	0.00163 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	6.4	mg/kg		6.4	mg/kg	0.00064 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	14	mg/kg		14	mg/kg	0.0014 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				29	mg/kg	1.245	36.097	mg/kg	0.00361 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0133 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH206

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH206
Sample Depth:
3.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.5 mg/kg		7.5 mg/kg	0.00075 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		27 mg/kg	1.252	33.798 mg/kg	0.00338 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	28 mg/kg		28 mg/kg	0.0028 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				23	mg/kg	1.785	41.059	mg/kg	0.00411 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				63	mg/kg	1.245	78.417	mg/kg	0.00784 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0235 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH206[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH206[2]
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.09 mg/kg		0.09 mg/kg	0.000009 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.17 mg/kg		0.17 mg/kg	0.000017 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.5 mg/kg		2.5 mg/kg	0.00025 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.12 mg/kg		0.12 mg/kg	0.000012 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.27 mg/kg	0.000027 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.22 mg/kg		0.22 mg/kg	0.000022 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.24 mg/kg		0.24 mg/kg	0.000024 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				73	mg/kg	1.252	91.38	mg/kg	0.00914 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
			205-912-4	206-44-0									
21		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	51	mg/kg		51	mg/kg	0.0051 %		
		082-001-00-6											
24		mercury { mercury }				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				38	mg/kg	1.785	67.837	mg/kg	0.00678 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				180	mg/kg	1.245	224.049	mg/kg	0.0224 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0543 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH207

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH207
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.29 mg/kg		0.29 mg/kg	0.000029 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.2 mg/kg		0.2 mg/kg	0.00002 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		53 mg/kg		53 mg/kg	0.0053 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.13 mg/kg		0.13 mg/kg	0.000013 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.4 mg/kg		0.4 mg/kg	0.00004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.28 mg/kg		0.28 mg/kg	0.000028 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.45 mg/kg		0.45 mg/kg	0.000045 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.6 mg/kg		2.6 mg/kg	0.00026 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				240	mg/kg	1.252	300.426	mg/kg	0.03 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			205-912-4	206-44-0									
21		fluorene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	240	mg/kg		240	mg/kg	0.024 %		
		082-001-00-6											
24		mercury { mercury }				0.69	mg/kg		0.69	mg/kg	0.000069 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			204-927-3	129-00-0									
30		selenium { selenium }				1	mg/kg		1	mg/kg	0.0001 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				61	mg/kg	1.785	108.896	mg/kg	0.0109 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				300	mg/kg	1.245	373.414	mg/kg	0.0373 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.118 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH207[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH207[2]
Sample Depth:
2.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
				TPH									
										Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: GEO_BH207[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH207[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
5.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5.9 mg/kg		5.9 mg/kg	0.00059 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		190 mg/kg	1.462	277.696 mg/kg	0.0278 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130 mg/kg	1.252	162.731 mg/kg	0.0163 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1.3 mg/kg	1.884	2.449 mg/kg	0.000245 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.17 mg/kg		0.17 mg/kg	0.000017 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	25 mg/kg		25 mg/kg	0.0025 %		
12	monohydric phenols			P1186		0.4 mg/kg		0.4 mg/kg	0.00004 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				640	mg/kg	1.785	1142.518	mg/kg	0.114 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				88	mg/kg	1.245	109.535	mg/kg	0.011 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.194 %		

Key

	User supplied data
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH207[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH207[4]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
10.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.8 mg/kg		2.8 mg/kg	0.00028 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		3.9 mg/kg		3.9 mg/kg	0.00039 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		160 mg/kg	1.252	200.284 mg/kg	0.02 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				9.1 mg/kg	1.884	17.144 mg/kg	0.00171 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	170 mg/kg		170 mg/kg	0.017 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.21 mg/kg		0.21 mg/kg	0.000021 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	45 mg/kg		45 mg/kg	0.0045 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				68	mg/kg	1.785	121.393	mg/kg	0.0121 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				140	mg/kg	1.245	174.26	mg/kg	0.0174 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0801 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH207[5]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH207[5]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
13.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
2	acenaphthylene		205-917-1	208-96-8		0.08 mg/kg		0.08 mg/kg	0.000008 %		
3	anthracene		204-371-1	120-12-7		0.39 mg/kg		0.39 mg/kg	0.000039 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.1 mg/kg		2.1 mg/kg	0.00021 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		30 mg/kg		30 mg/kg	0.003 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.18 mg/kg		0.18 mg/kg	0.000018 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.45 mg/kg		0.45 mg/kg	0.000045 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.3 mg/kg		0.3 mg/kg	0.00003 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.43 mg/kg		0.43 mg/kg	0.000043 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7 mg/kg		0.7 mg/kg	0.00007 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.41	mg/kg		0.41	mg/kg	0.000041 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		79	mg/kg	1.252	98.89	mg/kg	0.00989 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				18	mg/kg	1.884	33.912	mg/kg	0.00339 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		1.7	mg/kg		1.7	mg/kg	0.00017 %		
21		fluorene		201-695-5	86-73-7		0.24	mg/kg		0.24	mg/kg	0.000024 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.13	mg/kg		0.13	mg/kg	0.000013 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	140	mg/kg		140	mg/kg	0.014 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.2	mg/kg		0.2	mg/kg	0.00002 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.03	mg/kg		0.03	mg/kg	0.000003 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	35	mg/kg		35	mg/kg	0.0035 %		
27		phenanthrene		201-581-5	85-01-8		1.4	mg/kg		1.4	mg/kg	0.00014 %		
28		monohydric phenols			P1186		1.5	mg/kg		1.5	mg/kg	0.00015 %		
29		pyrene		204-927-3	129-00-0		1.8	mg/kg		1.8	mg/kg	0.00018 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		41	mg/kg	1.785	73.193	mg/kg	0.00732 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
											Total:	0.0638 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH208

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH208	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.03 mg/kg		0.03 mg/kg	0.000003 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	8.9 mg/kg		8.9 mg/kg	0.00089 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		28 mg/kg		28 mg/kg	0.0028 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.07 mg/kg		0.07 mg/kg	0.000007 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.19 mg/kg		0.19 mg/kg	0.000019 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.14 mg/kg		0.14 mg/kg	0.000014 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.23 mg/kg		0.23 mg/kg	0.000023 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1 mg/kg		1 mg/kg	0.0001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.18	mg/kg		0.18	mg/kg	0.000018 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		220	mg/kg	1.252	275.391	mg/kg	0.0275 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.54	mg/kg		0.54	mg/kg	0.000054 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.07	mg/kg		0.07	mg/kg	0.000007 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	150	mg/kg		150	mg/kg	0.015 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		10	mg/kg		10	mg/kg	0.001 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.07	mg/kg		0.07	mg/kg	0.000007 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	28	mg/kg		28	mg/kg	0.0028 %		
27		phenanthrene		201-581-5	85-01-8		0.29	mg/kg		0.29	mg/kg	0.000029 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.55	mg/kg		0.55	mg/kg	0.000055 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.6	mg/kg		0.6	mg/kg	0.00006 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		48	mg/kg	1.785	85.689	mg/kg	0.00857 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0822 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH208[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH208[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
4.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.3 mg/kg		2.3 mg/kg	0.00023 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		25 mg/kg		25 mg/kg	0.0025 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130	mg/kg	1.252	162.731	mg/kg	0.0163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.4	mg/kg	1.884	0.754	mg/kg	0.0000754 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.12	mg/kg		0.12	mg/kg	0.000012 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	90	mg/kg		90	mg/kg	0.009 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.07	mg/kg		0.07	mg/kg	0.000007 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	30	mg/kg		30	mg/kg	0.003 %		
27		phenanthrene		201-581-5	85-01-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.1	mg/kg		0.1	mg/kg	0.00001 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		38	mg/kg	1.785	67.837	mg/kg	0.00678 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		97	mg/kg	1.245	120.737	mg/kg	0.0121 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0544 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH208[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH208[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
8.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.5 mg/kg		6.5 mg/kg	0.00065 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		36 mg/kg		36 mg/kg	0.0036 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2 mg/kg		2 mg/kg	0.0002 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		220 mg/kg	1.252	275.391 mg/kg	0.0275 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		17 mg/kg		17 mg/kg	0.0017 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	33 mg/kg		33 mg/kg	0.0033 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				52	mg/kg	1.785	92.83	mg/kg	0.00928 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				140	mg/kg	1.245	174.26	mg/kg	0.0174 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0844 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH209

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH209	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.6 mg/kg		3.6 mg/kg	0.00036 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		22 mg/kg		22 mg/kg	0.0022 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.04 mg/kg		0.04 mg/kg	0.000004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.08 mg/kg		0.08 mg/kg	0.000008 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.07 mg/kg		0.07 mg/kg	0.000007 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.1 mg/kg		2.1 mg/kg	0.00021 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.11	mg/kg		0.11	mg/kg	0.000011 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130	mg/kg	1.252	162.731	mg/kg	0.0163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.27	mg/kg		0.27	mg/kg	0.000027 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.04	mg/kg		0.04	mg/kg	0.000004 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	100	mg/kg		100	mg/kg	0.01 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.48	mg/kg		0.48	mg/kg	0.000048 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.21	mg/kg		0.21	mg/kg	0.000021 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	37	mg/kg		37	mg/kg	0.0037 %		
27		phenanthrene		201-581-5	85-01-8		0.31	mg/kg		0.31	mg/kg	0.000031 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.24	mg/kg		0.24	mg/kg	0.000024 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		50	mg/kg	1.785	89.259	mg/kg	0.00893 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0643 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH209[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH209[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.4 mg/kg		6.4 mg/kg	0.00064 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.2 mg/kg	1.462	13.446 mg/kg	0.00134 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		18 mg/kg	1.252	22.532 mg/kg	0.00225 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.4 mg/kg		9.4 mg/kg	0.00094 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	12 mg/kg		12 mg/kg	0.0012 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				12	mg/kg	1.785	21.422	mg/kg	0.00214 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				32	mg/kg	1.245	39.831	mg/kg	0.00398 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0129 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH210

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH210	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
4.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.9 mg/kg		2.9 mg/kg	0.00029 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.8 mg/kg	1.462	11.4 mg/kg	0.00114 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		210 mg/kg	1.252	262.873 mg/kg	0.0263 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		**<LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	260 mg/kg		260 mg/kg	0.026 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.15 mg/kg		0.15 mg/kg	0.000015 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	34 mg/kg		34 mg/kg	0.0034 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				38	mg/kg	1.245	47.299	mg/kg	0.00473 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0702 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH210[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH210[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.96	mg/kg		0.96	mg/kg	0.000096 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.41	mg/kg		0.41	mg/kg	0.000041 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.6	mg/kg		1.6	mg/kg	0.00016 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.8	mg/kg		7.8	mg/kg	0.00078 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.09	mg/kg		0.09	mg/kg	0.000009 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.28	mg/kg		0.28	mg/kg	0.000028 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.18	mg/kg		0.18	mg/kg	0.000018 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.25	mg/kg		0.25	mg/kg	0.000025 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9	mg/kg		0.9	mg/kg	0.00009 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4	mg/kg	5.719	2.288	mg/kg	0.000229 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22	mg/kg	1.462	32.154	mg/kg	0.00322 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.4	mg/kg		0.4	mg/kg	0.00004 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		30	mg/kg	1.252	37.553	mg/kg	0.00376 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		1.3	mg/kg		1.3	mg/kg	0.00013 %		
21		fluorene		201-695-5	86-73-7		0.59	mg/kg		0.59	mg/kg	0.000059 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	29	mg/kg		29	mg/kg	0.0029 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.09	mg/kg		0.09	mg/kg	0.000009 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29	mg/kg		29	mg/kg	0.0029 %		
27		phenanthrene		201-581-5	85-01-8		2.7	mg/kg		2.7	mg/kg	0.00027 %		
28		monohydric phenols			P1186		0.3	mg/kg		0.3	mg/kg	0.00003 %		
29		pyrene		204-927-3	129-00-0		1.3	mg/kg		1.3	mg/kg	0.00013 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		45.6	mg/kg		45.6	mg/kg	0.00456 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		51	mg/kg	1.245	63.48	mg/kg	0.00635 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.0308 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00456%)

Classification of sample: GEO_BH211A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH211A
Sample Depth:
2.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.2 mg/kg		6.2 mg/kg	0.00062 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.04 mg/kg		0.04 mg/kg	0.000004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.09 mg/kg		0.09 mg/kg	0.000009 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.09 mg/kg		0.09 mg/kg	0.000009 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		190	mg/kg	1.252	237.838	mg/kg	0.0238 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2.9	mg/kg	1.884	5.464	mg/kg	0.000546 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		0.29	mg/kg		0.29	mg/kg	0.000029 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.04	mg/kg		0.04	mg/kg	0.000004 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	490	mg/kg		490	mg/kg	0.049 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.28	mg/kg		0.28	mg/kg	0.000028 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.08	mg/kg		0.08	mg/kg	0.000008 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29	mg/kg		29	mg/kg	0.0029 %		
27		phenanthrene		201-581-5	85-01-8		0.23	mg/kg		0.23	mg/kg	0.000023 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		0.27	mg/kg		0.27	mg/kg	0.000027 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		1.2	mg/kg		1.2	mg/kg	0.00012 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		50.9	mg/kg		50.9	mg/kg	0.00509 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		43	mg/kg	1.785	76.763	mg/kg	0.00768 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	149.366	mg/kg	0.0149 %		
											Total:	0.11 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00509%)

Classification of sample: GEO_BH211A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
GEO_BH211A[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
5.2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		35 mg/kg		35 mg/kg	0.0035 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2 mg/kg		2 mg/kg	0.0002 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				410	mg/kg	1.252	513.228	mg/kg	0.0513 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				2.5	mg/kg	1.884	4.71	mg/kg	0.000471 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	600	mg/kg		600	mg/kg	0.06 %		
		082-001-00-6											
24		mercury { mercury }				0.95	mg/kg		0.95	mg/kg	0.000095 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	37	mg/kg		37	mg/kg	0.0037 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-927-3	129-00-0									
30		selenium { selenium }				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				50	mg/kg	1.785	89.259	mg/kg	0.00893 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				140	mg/kg	1.245	174.26	mg/kg	0.0174 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.15 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH211A[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
GEO_BH211A[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
9 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	7 mg/kg		7 mg/kg	0.0007 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		50 mg/kg		50 mg/kg	0.005 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2 mg/kg	5.719	11.438 mg/kg	0.00114 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		470 mg/kg	1.462	686.931 mg/kg	0.0687 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		230 mg/kg	1.252	287.909 mg/kg	0.0288 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				47 mg/kg	1.884	88.548 mg/kg	0.00885 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	460 mg/kg		460 mg/kg	0.046 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.2 mg/kg		1.2 mg/kg	0.00012 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	28 mg/kg		28 mg/kg	0.0028 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.183 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH211A[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH211A[4]
Sample Depth:
10.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.5 mg/kg		2.5 mg/kg	0.00025 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40 mg/kg		40 mg/kg	0.004 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		110 mg/kg	1.462	160.771 mg/kg	0.0161 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		78	mg/kg	1.252	97.639	mg/kg	0.00976 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				12	mg/kg	1.884	22.608	mg/kg	0.00226 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	180	mg/kg		180	mg/kg	0.018 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.87	mg/kg		0.87	mg/kg	0.000087 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	17	mg/kg		17	mg/kg	0.0017 %		
27		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		194	mg/kg		194	mg/kg	0.0194 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17	mg/kg	1.785	30.348	mg/kg	0.00303 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	149.366	mg/kg	0.0149 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0907 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0194%)

Classification of sample: GEO_BH212

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH212
Sample Depth:
0.4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.46 mg/kg		0.46 mg/kg	0.000046 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.89 mg/kg		0.89 mg/kg	0.000089 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5.6 mg/kg		5.6 mg/kg	0.00056 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		32 mg/kg		32 mg/kg	0.0032 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.28 mg/kg		0.28 mg/kg	0.000028 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2 mg/kg		1.2 mg/kg	0.00012 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.6 mg/kg		0.6 mg/kg	0.00006 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1 mg/kg		1 mg/kg	0.0001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.4 mg/kg		1.4 mg/kg	0.00014 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.1	mg/kg		1.1	mg/kg	0.00011 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		260	mg/kg	1.252	325.462	mg/kg	0.0325 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.9	mg/kg	1.884	1.696	mg/kg	0.00017 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.06	mg/kg		0.06	mg/kg	0.000006 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		3.8	mg/kg		3.8	mg/kg	0.00038 %		
21		fluorene		201-695-5	86-73-7		0.36	mg/kg		0.36	mg/kg	0.000036 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.24	mg/kg		0.24	mg/kg	0.000024 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	430	mg/kg		430	mg/kg	0.043 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.88	mg/kg		0.88	mg/kg	0.000088 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.15	mg/kg		0.15	mg/kg	0.000015 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	42	mg/kg		42	mg/kg	0.0042 %		
27		phenanthrene		201-581-5	85-01-8		3.8	mg/kg		3.8	mg/kg	0.00038 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		3.2	mg/kg		3.2	mg/kg	0.00032 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		1.8	mg/kg		1.8	mg/kg	0.00018 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		41.8	mg/kg		41.8	mg/kg	0.00418 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		50	mg/kg	1.785	89.259	mg/kg	0.00893 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1500	mg/kg	1.245	1867.071	mg/kg	0.187 %		
35		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		1400	mg/kg	2.749	3847.989	mg/kg	0.385 %		
36		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.675 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00418%)

Classification of sample: GEO_BH212[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH212[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.1 mg/kg		6.1 mg/kg	0.00061 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10 mg/kg	1.462	14.616 mg/kg	0.00146 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		80 mg/kg	1.252	100.142 mg/kg	0.01 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.3 mg/kg	1.884	0.565 mg/kg	0.0000565 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	850 mg/kg		850 mg/kg	0.085 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.3 mg/kg		0.3 mg/kg	0.00003 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21 mg/kg		21 mg/kg	0.0021 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				35	mg/kg	1.785	62.481	mg/kg	0.00625 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				210	mg/kg	1.245	261.39	mg/kg	0.0261 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.133 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH212A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH212A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.6 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		3.1 mg/kg		3.1 mg/kg	0.00031 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		**<LOD**
3	anthracene		204-371-1	120-12-7		3.2 mg/kg		3.2 mg/kg	0.00032 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.7 mg/kg		4.7 mg/kg	0.00047 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		26 mg/kg		26 mg/kg	0.0026 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.83 mg/kg		0.83 mg/kg	0.000083 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.9 mg/kg		2.9 mg/kg	0.00029 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.8 mg/kg		1.8 mg/kg	0.00018 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.6 mg/kg		2.6 mg/kg	0.00026 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7 mg/kg		0.7 mg/kg	0.00007 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		3	mg/kg		3	mg/kg	0.0003 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		210	mg/kg	1.252	262.873	mg/kg	0.0263 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				3.1	mg/kg	1.884	5.84	mg/kg	0.000584 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.15	mg/kg		0.15	mg/kg	0.000015 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		12	mg/kg		12	mg/kg	0.0012 %		
21		fluorene		201-695-5	86-73-7		2.3	mg/kg		2.3	mg/kg	0.00023 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.66	mg/kg		0.66	mg/kg	0.000066 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	370	mg/kg		370	mg/kg	0.037 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.45	mg/kg		0.45	mg/kg	0.000045 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		1.4	mg/kg		1.4	mg/kg	0.00014 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26	mg/kg		26	mg/kg	0.0026 %		
27		phenanthrene		201-581-5	85-01-8		15	mg/kg		15	mg/kg	0.0015 %		
28		monohydric phenols			P1186		0.3	mg/kg		0.3	mg/kg	0.00003 %		
29		pyrene		204-927-3	129-00-0		10	mg/kg		10	mg/kg	0.001 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		179.3	mg/kg		179.3	mg/kg	0.0179 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		36	mg/kg	1.785	64.267	mg/kg	0.00643 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
35		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		350	mg/kg	2.749	961.997	mg/kg	0.0962 %		
36		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.219 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0179%)

Classification of sample: GEO_BH213

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH213	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.113%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		19 mg/kg		19 mg/kg	0.0019 %		
2	acenaphthylene		205-917-1	208-96-8		0.44 mg/kg		0.44 mg/kg	0.000044 %		
3	anthracene		204-371-1	120-12-7		24 mg/kg		24 mg/kg	0.0024 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.9 mg/kg		2.9 mg/kg	0.00029 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		16	mg/kg		16	mg/kg	0.0016 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		43	mg/kg		43	mg/kg	0.0043 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		26	mg/kg		26	mg/kg	0.0026 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		37	mg/kg		37	mg/kg	0.0037 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7	mg/kg	5.719	4.003	mg/kg	0.0004 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		50	mg/kg		50	mg/kg	0.005 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		91	mg/kg	1.252	113.912	mg/kg	0.0114 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		5	mg/kg		5	mg/kg	0.0005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		120	mg/kg		120	mg/kg	0.012 %		
21		fluorene		201-695-5	86-73-7		15	mg/kg		15	mg/kg	0.0015 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		14	mg/kg		14	mg/kg	0.0014 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	100	mg/kg		100	mg/kg	0.01 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		naphthalene	601-052-00-2	202-049-5	91-20-3		7	mg/kg		7	mg/kg	0.0007 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	25	mg/kg		25	mg/kg	0.0025 %		
27		phenanthrene		201-581-5	85-01-8		110	mg/kg		110	mg/kg	0.011 %		
28		monohydric phenols			P1186		0.8	mg/kg		0.8	mg/kg	0.00008 %		
29		pyrene		204-927-3	129-00-0		110	mg/kg		110	mg/kg	0.011 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				1131.5	mg/kg		1131.5	mg/kg	0.113 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				100	mg/kg	1.245	124.471	mg/kg	0.0124 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.219 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH214

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH214	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.12 mg/kg		0.12 mg/kg	0.000012 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.2 mg/kg		2.2 mg/kg	0.00022 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		20 mg/kg		20 mg/kg	0.002 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.03 mg/kg		0.03 mg/kg	0.000003 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.15 mg/kg		0.15 mg/kg	0.000015 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.08 mg/kg		0.08 mg/kg	0.000008 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.15	mg/kg		0.15	mg/kg	0.000015 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		94	mg/kg	1.252	117.667	mg/kg	0.0118 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.55	mg/kg		0.55	mg/kg	0.000055 %		
21		fluorene		201-695-5	86-73-7		0.05	mg/kg		0.05	mg/kg	0.000005 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.04	mg/kg		0.04	mg/kg	0.000004 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	870	mg/kg		870	mg/kg	0.087 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.06	mg/kg		0.06	mg/kg	0.000006 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	29	mg/kg		29	mg/kg	0.0029 %		
27		phenanthrene		201-581-5	85-01-8		0.76	mg/kg		0.76	mg/kg	0.000076 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.46	mg/kg		0.46	mg/kg	0.000046 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
35		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		460	mg/kg	2.749	1264.339	mg/kg	0.126 %		
36		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.248 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH214A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH214A
Sample Depth:
2.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.04 mg/kg		0.04 mg/kg	0.000004 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		17 mg/kg		17 mg/kg	0.0017 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.08 mg/kg		0.08 mg/kg	0.000008 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.08 mg/kg		0.08 mg/kg	0.000008 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.13 mg/kg		0.13 mg/kg	0.000013 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.6 mg/kg	1.462	12.569 mg/kg	0.00126 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				150	mg/kg	1.252	187.766	mg/kg	0.0188 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	520	mg/kg		520	mg/kg	0.052 %		
		082-001-00-6											
24		mercury { mercury }				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	18	mg/kg		18	mg/kg	0.0018 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				30	mg/kg		30	mg/kg	0.003 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				48	mg/kg	1.245	59.746	mg/kg	0.00597 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0895 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.003%)

Classification of sample: GEO_BH215

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_BH215	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1 mg/kg		1 mg/kg	0.0001 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.5 mg/kg		7.5 mg/kg	0.00075 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		28 mg/kg	1.252	35.05 mg/kg	0.0035 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	31 mg/kg		31 mg/kg	0.0031 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				29	mg/kg	1.785	51.77	mg/kg	0.00518 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				59	mg/kg	1.245	73.438	mg/kg	0.00734 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0255 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_BH215[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_BH215[2]
Sample Depth:
1.1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		1.9 mg/kg		1.9 mg/kg	0.00019 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.03 mg/kg		0.03 mg/kg	0.000003 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.03 mg/kg		0.03 mg/kg	0.000003 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.3 mg/kg		0.3 mg/kg	0.00003 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.2 mg/kg	1.462	9.062 mg/kg	0.000906 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.03	mg/kg		0.03	mg/kg	0.000003 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		13	mg/kg	1.252	16.273	mg/kg	0.00163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.06	mg/kg		0.06	mg/kg	0.000006 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	9.8	mg/kg		9.8	mg/kg	0.00098 %		
27		phenanthrene		201-581-5	85-01-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.05	mg/kg		0.05	mg/kg	0.000005 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7	mg/kg	1.785	12.496	mg/kg	0.00125 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		27	mg/kg	1.245	33.607	mg/kg	0.00336 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0107 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP201

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP201	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.7 mg/kg		5.7 mg/kg	0.00057 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		20 mg/kg	1.252	25.036 mg/kg	0.0025 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22 mg/kg		22 mg/kg	0.0022 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.64 mg/kg		0.64 mg/kg	0.000064 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21 mg/kg		21 mg/kg	0.0021 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				43	mg/kg	1.245	53.523	mg/kg	0.00535 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0194 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP201[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP201[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.46 mg/kg		0.46 mg/kg	0.000046 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		**<LOD**
3	anthracene		204-371-1	120-12-7		0.34 mg/kg		0.34 mg/kg	0.000034 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		**<LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.8 mg/kg		6.8 mg/kg	0.00068 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.15 mg/kg		0.15 mg/kg	0.000015 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.43 mg/kg		0.43 mg/kg	0.000043 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.32 mg/kg		0.32 mg/kg	0.000032 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.44 mg/kg		0.44 mg/kg	0.000044 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		**<LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.55	mg/kg		0.55	mg/kg	0.000055 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		32	mg/kg	1.252	40.057	mg/kg	0.00401 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.5	mg/kg		1.5	mg/kg	0.00015 %		
21		fluorene		201-695-5	86-73-7		0.27	mg/kg		0.27	mg/kg	0.000027 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.13	mg/kg		0.13	mg/kg	0.000013 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	33	mg/kg		33	mg/kg	0.0033 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.61	mg/kg		0.61	mg/kg	0.000061 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	16	mg/kg		16	mg/kg	0.0016 %		
27		phenanthrene		201-581-5	85-01-8		2	mg/kg		2	mg/kg	0.0002 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1.5	mg/kg		1.5	mg/kg	0.00015 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17	mg/kg	1.785	30.348	mg/kg	0.00303 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		77	mg/kg	1.245	95.843	mg/kg	0.00958 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0255 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP202

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP202	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1 mg/kg		1 mg/kg	0.0001 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.5 mg/kg		6.5 mg/kg	0.00065 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		23 mg/kg		23 mg/kg	0.0023 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		1.3 mg/kg		1.3 mg/kg	0.00013 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3 mg/kg		3 mg/kg	0.0003 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.5 mg/kg		2.5 mg/kg	0.00025 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		3.7 mg/kg		3.7 mg/kg	0.00037 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.9 mg/kg		1.9 mg/kg	0.00019 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.5 mg/kg		1.5 mg/kg	0.00015 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		3.5	mg/kg		3.5	mg/kg	0.00035 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		300	mg/kg	1.252	375.533	mg/kg	0.0376 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.8	mg/kg	1.884	1.507	mg/kg	0.000151 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.24	mg/kg		0.24	mg/kg	0.000024 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		9.1	mg/kg		9.1	mg/kg	0.00091 %		
21		fluorene		201-695-5	86-73-7		0.53	mg/kg		0.53	mg/kg	0.000053 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		1	mg/kg		1	mg/kg	0.0001 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	460	mg/kg		460	mg/kg	0.046 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.28	mg/kg		0.28	mg/kg	0.000028 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	44	mg/kg		44	mg/kg	0.0044 %		
27		phenanthrene		201-581-5	85-01-8		5.8	mg/kg		5.8	mg/kg	0.00058 %		
28		monohydric phenols			P1186		0.4	mg/kg		0.4	mg/kg	0.00004 %		
29		pyrene		204-927-3	129-00-0		8.4	mg/kg		8.4	mg/kg	0.00084 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		234.1	mg/kg		234.1	mg/kg	0.0234 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		53	mg/kg	1.785	94.615	mg/kg	0.00946 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		270	mg/kg	1.245	336.073	mg/kg	0.0336 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
											Total:	0.166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0234%)

Classification of sample: GEO_TP202C

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP202C
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.61 mg/kg		0.61 mg/kg	0.000061 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.52 mg/kg		0.52 mg/kg	0.000052 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.28 mg/kg		0.28 mg/kg	0.000028 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.79 mg/kg		0.79 mg/kg	0.000079 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.52 mg/kg		0.52 mg/kg	0.000052 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.79 mg/kg		0.79 mg/kg	0.000079 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7 mg/kg		0.7 mg/kg	0.00007 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.91	mg/kg		0.91	mg/kg	0.000091 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				100	mg/kg	1.252	125.178	mg/kg	0.0125 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			205-912-4	206-44-0									
21		fluorene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %		
		082-001-00-6											
24		mercury { mercury }				0.07	mg/kg		0.07	mg/kg	0.000007 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	19	mg/kg		19	mg/kg	0.0019 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			201-581-5	85-01-8									
28		monohydric phenols				2.1	mg/kg		2.1	mg/kg	0.00021 %		
				P1186									
29		pyrene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				62.4	mg/kg		62.4	mg/kg	0.00624 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				200	mg/kg	1.245	248.943	mg/kg	0.0249 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0672 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00624%)

Classification of sample: GEO_TP203

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP203
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.8	mg/kg		5.8	mg/kg	0.00058 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4	mg/kg	5.719	2.288	mg/kg	0.000229 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1	mg/kg		0.1	mg/kg	0.00001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		13	mg/kg	1.252	16.273	mg/kg	0.00163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10	mg/kg		10	mg/kg	0.001 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	25	mg/kg		25	mg/kg	0.0025 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		32	mg/kg	1.245	39.831	mg/kg	0.00398 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP203[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP203[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9 mg/kg		9 mg/kg	0.0009 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		29	mg/kg	1.252	36.302	mg/kg	0.00363 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1	mg/kg	1.884	1.884	mg/kg	0.000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	16	mg/kg		16	mg/kg	0.0016 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.42	mg/kg		0.42	mg/kg	0.000042 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21	mg/kg		21	mg/kg	0.0021 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.8	mg/kg		0.8	mg/kg	0.00008 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	41.059	mg/kg	0.00411 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		46	mg/kg	1.245	57.257	mg/kg	0.00573 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP203[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP203[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.5 mg/kg		7.5 mg/kg	0.00075 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		25 mg/kg	1.252	31.294 mg/kg	0.00313 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.46 mg/kg		0.46 mg/kg	0.000046 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	27 mg/kg		27 mg/kg	0.0027 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				54	mg/kg	1.245	67.215	mg/kg	0.00672 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.023 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP204

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP204
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.7	mg/kg		4.7	mg/kg	0.00047 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		0.03	mg/kg		0.03	mg/kg	0.000003 %		
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.03	mg/kg		0.03	mg/kg	0.000003 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3	mg/kg	5.719	1.716	mg/kg	0.000172 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		25	mg/kg	1.252	31.294	mg/kg	0.00313 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.02	mg/kg		0.02	mg/kg	0.000002 %		
20		fluoranthene		205-912-4	206-44-0		0.03	mg/kg		0.03	mg/kg	0.000003 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11	mg/kg		11	mg/kg	0.0011 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.02	mg/kg		0.02	mg/kg	0.000002 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	19	mg/kg		19	mg/kg	0.0019 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.06	mg/kg		0.06	mg/kg	0.000006 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		14	mg/kg	1.785	24.993	mg/kg	0.0025 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		40	mg/kg	1.245	49.789	mg/kg	0.00498 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 3.0e-06%)
ethylbenzene: (conc.: 2.0e-06%)

Classification of sample: GEO_TP205

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP205	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
2	•	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
3		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
4	•	TPH (C6 to C40) petroleum group				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
				TPH							
								Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: GEO_TP205[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP205[2]
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.5	mg/kg		1.5	mg/kg	0.00015 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.3	mg/kg		9.3	mg/kg	0.00093 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4	mg/kg	5.719	2.288	mg/kg	0.000229 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24	mg/kg	1.462	35.077	mg/kg	0.00351 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		38	mg/kg	1.252	47.568	mg/kg	0.00476 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	43	mg/kg		43	mg/kg	0.0043 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.19	mg/kg		0.19	mg/kg	0.000019 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	32	mg/kg		32	mg/kg	0.0032 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28	mg/kg	1.785	49.985	mg/kg	0.005 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		63	mg/kg	1.245	78.417	mg/kg	0.00784 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0306 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP206

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP206	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1.1 mg/kg		1.1 mg/kg	0.00011 %		
2	acenaphthylene		205-917-1	208-96-8		0.42 mg/kg		0.42 mg/kg	0.000042 %		
3	anthracene		204-371-1	120-12-7		3.5 mg/kg		3.5 mg/kg	0.00035 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.7 mg/kg		3.7 mg/kg	0.00037 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		2.6 mg/kg		2.6 mg/kg	0.00026 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		5.3 mg/kg		5.3 mg/kg	0.00053 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		5.6 mg/kg		5.6 mg/kg	0.00056 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		4.2 mg/kg		4.2 mg/kg	0.00042 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.6 mg/kg		0.6 mg/kg	0.00006 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		4.8	mg/kg		4.8	mg/kg	0.00048 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130	mg/kg	1.252	162.731	mg/kg	0.0163 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2.2	mg/kg	1.884	4.145	mg/kg	0.000414 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.35	mg/kg		0.35	mg/kg	0.000035 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		10	mg/kg		10	mg/kg	0.001 %		
21		fluorene		201-695-5	86-73-7		2.3	mg/kg		2.3	mg/kg	0.00023 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		1.5	mg/kg		1.5	mg/kg	0.00015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	200	mg/kg		200	mg/kg	0.02 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.41	mg/kg		0.41	mg/kg	0.000041 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.35	mg/kg		0.35	mg/kg	0.000035 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	27	mg/kg		27	mg/kg	0.0027 %		
27		phenanthrene		201-581-5	85-01-8		14	mg/kg		14	mg/kg	0.0014 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		**<LOD**
29		pyrene		204-927-3	129-00-0		18	mg/kg		18	mg/kg	0.0018 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		75.9	mg/kg		75.9	mg/kg	0.00759 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		200	mg/kg	1.245	248.943	mg/kg	0.0249 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
											Total:	0.0914 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00759%)

Classification of sample: GEO_TP206A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP206A
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.45 mg/kg		0.45 mg/kg	0.000045 %		
2	acenaphthylene		205-917-1	208-96-8		0.37 mg/kg		0.37 mg/kg	0.000037 %		
3	anthracene		204-371-1	120-12-7		0.55 mg/kg		0.55 mg/kg	0.000055 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.7 mg/kg		1.7 mg/kg	0.00017 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.51 mg/kg		0.51 mg/kg	0.000051 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.65 mg/kg		0.65 mg/kg	0.000065 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.61 mg/kg		0.61 mg/kg	0.000061 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.59 mg/kg		0.59 mg/kg	0.000059 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.72	mg/kg		0.72	mg/kg	0.000072 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				94	mg/kg	1.252	117.667	mg/kg	0.0118 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			205-912-4	206-44-0									
21		fluorene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	27	mg/kg		27	mg/kg	0.0027 %		
		082-001-00-6											
24		mercury { mercury }				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				154.3	mg/kg		154.3	mg/kg	0.0154 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.785	55.341	mg/kg	0.00553 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				67	mg/kg	1.245	83.396	mg/kg	0.00834 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0549 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0154%)

Classification of sample: GEO_TP207

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP207
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.7	mg/kg		4.7	mg/kg	0.00047 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5	mg/kg		0.5	mg/kg	0.00005 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3	mg/kg	5.719	1.716	mg/kg	0.000172 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1	mg/kg		0.1	mg/kg	0.00001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		18	mg/kg	1.252	22.532	mg/kg	0.00225 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	17	mg/kg		17	mg/kg	0.0017 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		15	mg/kg	1.785	26.778	mg/kg	0.00268 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		45	mg/kg	1.245	56.012	mg/kg	0.0056 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP208

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP208
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		26 mg/kg		26 mg/kg	0.0026 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.08 mg/kg		0.08 mg/kg	0.000008 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.12 mg/kg		0.12 mg/kg	0.000012 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.15 mg/kg		0.15 mg/kg	0.000015 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.07	mg/kg		0.07	mg/kg	0.000007 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		37	mg/kg	1.252	46.316	mg/kg	0.00463 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		0.09	mg/kg		0.09	mg/kg	0.000009 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	67	mg/kg		67	mg/kg	0.0067 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.41	mg/kg		0.41	mg/kg	0.000041 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	33	mg/kg		33	mg/kg	0.0033 %		
27		phenanthrene		201-581-5	85-01-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
29		pyrene		204-927-3	129-00-0		0.28	mg/kg		0.28	mg/kg	0.000028 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		0.6	mg/kg		0.6	mg/kg	0.00006 %		
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
33		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	0.0412 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP208[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP208[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		10 mg/kg		10 mg/kg	0.001 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		30 mg/kg	1.252	37.553 mg/kg	0.00376 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		**<LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	61 mg/kg		61 mg/kg	0.0061 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.21 mg/kg		0.21 mg/kg	0.000021 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	15 mg/kg		15 mg/kg	0.0015 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				45	mg/kg	1.245	56.012	mg/kg	0.0056 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0234 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP209

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP209
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
3		anthracene		204-371-1	120-12-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.8	mg/kg		4.8	mg/kg	0.00048 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.27	mg/kg		0.27	mg/kg	0.000027 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.55	mg/kg		0.55	mg/kg	0.000055 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.58	mg/kg		0.58	mg/kg	0.000058 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.6	mg/kg		0.6	mg/kg	0.00006 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2	mg/kg	5.719	6.863	mg/kg	0.000686 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.1	mg/kg	1.462	13.3	mg/kg	0.00133 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.56	mg/kg		0.56	mg/kg	0.000056 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		35	mg/kg	1.252	43.812	mg/kg	0.00438 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.3	mg/kg		1.3	mg/kg	0.00013 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.2	mg/kg		0.2	mg/kg	0.00002 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	58	mg/kg		58	mg/kg	0.0058 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	8.1	mg/kg		8.1	mg/kg	0.00081 %		
27		phenanthrene		201-581-5	85-01-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1.7	mg/kg		1.7	mg/kg	0.00017 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		58	mg/kg		58	mg/kg	0.0058 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		15	mg/kg	1.785	26.778	mg/kg	0.00268 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		56	mg/kg	1.245	69.704	mg/kg	0.00697 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0301 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0058%)

Classification of sample: GEO_TP210

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP210
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.8 mg/kg		6.8 mg/kg	0.00068 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		22 mg/kg	1.252	27.539 mg/kg	0.00275 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18 mg/kg		18 mg/kg	0.0018 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.47 mg/kg		0.47 mg/kg	0.000047 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21 mg/kg		21 mg/kg	0.0021 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				42	mg/kg	1.245	52.278	mg/kg	0.00523 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0186 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP210[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP210[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1.2 mg/kg		1.2 mg/kg	0.00012 %		
2	acenaphthylene		205-917-1	208-96-8		0.11 mg/kg		0.11 mg/kg	0.000011 %		
3	anthracene		204-371-1	120-12-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3.8 mg/kg		3.8 mg/kg	0.00038 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		3.4 mg/kg		3.4 mg/kg	0.00034 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		5.2 mg/kg		5.2 mg/kg	0.00052 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		5.6 mg/kg		5.6 mg/kg	0.00056 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		7.1 mg/kg		7.1 mg/kg	0.00071 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.8 mg/kg	1.462	7.015 mg/kg	0.000702 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		5.2	mg/kg		5.2	mg/kg	0.00052 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		9.9	mg/kg	1.252	12.393	mg/kg	0.00124 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.76	mg/kg		0.76	mg/kg	0.000076 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
20		fluoranthene		205-912-4	206-44-0		12	mg/kg		12	mg/kg	0.0012 %		
21		fluorene		201-695-5	86-73-7		0.8	mg/kg		0.8	mg/kg	0.00008 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		2.8	mg/kg		2.8	mg/kg	0.00028 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.6	mg/kg		9.6	mg/kg	0.00096 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	6.6	mg/kg		6.6	mg/kg	0.00066 %		
27		phenanthrene		201-581-5	85-01-8		5.8	mg/kg		5.8	mg/kg	0.00058 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		**<LOD**
29		pyrene		204-927-3	129-00-0		11	mg/kg		11	mg/kg	0.0011 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
32		TPH (C6 to C40) petroleum group			TPH		387.3	mg/kg		387.3	mg/kg	0.0387 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		8.4	mg/kg	1.785	14.996	mg/kg	0.0015 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		27	mg/kg	1.245	33.607	mg/kg	0.00336 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
											Total:	0.0544 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0387%)

Classification of sample: GEO_TP210[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP210[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.31	mg/kg		0.31	mg/kg	0.000031 %		
2		acenaphthylene		205-917-1	208-96-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
3		anthracene		204-371-1	120-12-7		0.62	mg/kg		0.62	mg/kg	0.000062 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	28	mg/kg		28	mg/kg	0.0028 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		13	mg/kg		13	mg/kg	0.0013 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.64	mg/kg		0.64	mg/kg	0.000064 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2	mg/kg		1.2	mg/kg	0.00012 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1	mg/kg		1	mg/kg	0.0001 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.4	mg/kg		1.4	mg/kg	0.00014 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1	mg/kg	5.719	5.719	mg/kg	0.000572 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7	mg/kg		0.7	mg/kg	0.00007 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				92	mg/kg	1.252	115.163	mg/kg	0.0115 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.4	mg/kg	1.884	0.754	mg/kg	0.0000754 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			205-912-4	206-44-0									
21		fluorene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	420	mg/kg		420	mg/kg	0.042 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	17	mg/kg		17	mg/kg	0.0017 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.785	55.341	mg/kg	0.00553 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				220	mg/kg	1.245	273.837	mg/kg	0.0274 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0977 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP211

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP211	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3.1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1 mg/kg		1 mg/kg	0.0001 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.5 mg/kg		6.5 mg/kg	0.00065 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		18 mg/kg	1.252	22.532 mg/kg	0.00225 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.8 mg/kg		9.8 mg/kg	0.00098 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.45 mg/kg		0.45 mg/kg	0.000045 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	17 mg/kg		17 mg/kg	0.0017 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				22	mg/kg	1.785	39.274	mg/kg	0.00393 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				37	mg/kg	1.245	46.054	mg/kg	0.00461 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0176 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP211[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_TP211[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	●	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	●	TPH (C6 to C40) petroleum group				19	mg/kg		19	mg/kg	0.0019 %		
				TPH									
										Total:	0.0019 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0019%)

Classification of sample: GEO_TP211[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP211[3]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.04 mg/kg		0.04 mg/kg	0.000004 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.4 mg/kg		4.4 mg/kg	0.00044 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.06 mg/kg		0.06 mg/kg	0.000006 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				160	mg/kg	1.252	200.284	mg/kg	0.02 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150	mg/kg		150	mg/kg	0.015 %		
		082-001-00-6											
24		mercury { mercury }				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	33	mg/kg		33	mg/kg	0.0033 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				110	mg/kg	1.245	136.919	mg/kg	0.0137 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.064 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP212

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP212
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				83	mg/kg		83	mg/kg	0.0083 %		
				TPH									
										Total:	0.0083 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0083%)

Classification of sample: GEO_TP212[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP212[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.88	mg/kg		0.88	mg/kg	0.000088 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.86	mg/kg		0.86	mg/kg	0.000086 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.1	mg/kg		2.1	mg/kg	0.00021 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		89	mg/kg		89	mg/kg	0.0089 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.19	mg/kg		0.19	mg/kg	0.000019 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1	mg/kg		1	mg/kg	0.0001 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.5	mg/kg		0.5	mg/kg	0.00005 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.72	mg/kg		0.72	mg/kg	0.000072 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1	mg/kg		1	mg/kg	0.0001 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6	mg/kg	5.719	3.432	mg/kg	0.000343 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1	mg/kg		1	mg/kg	0.0001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.9	mg/kg	1.462	11.546	mg/kg	0.00115 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.2	mg/kg		1.2	mg/kg	0.00012 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		120	mg/kg	1.252	150.213	mg/kg	0.015 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.06	mg/kg		0.06	mg/kg	0.000006 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		3.8	mg/kg		3.8	mg/kg	0.00038 %		
21		fluorene		201-695-5	86-73-7		0.59	mg/kg		0.59	mg/kg	0.000059 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.19	mg/kg		0.19	mg/kg	0.000019 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	110	mg/kg		110	mg/kg	0.011 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		5.7	mg/kg		5.7	mg/kg	0.00057 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	33	mg/kg		33	mg/kg	0.0033 %		
27		phenanthrene		201-581-5	85-01-8		5.2	mg/kg		5.2	mg/kg	0.00052 %		
28		monohydric phenols			P1186		1.2	mg/kg		1.2	mg/kg	0.00012 %		
29		pyrene		204-927-3	129-00-0		3.1	mg/kg		3.1	mg/kg	0.00031 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		18.8	mg/kg		18.8	mg/kg	0.00188 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	41.059	mg/kg	0.00411 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		530	mg/kg	1.245	659.698	mg/kg	0.066 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.115 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00188%)

Classification of sample: GEO_TP212[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP212[3]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.15	mg/kg		0.15	mg/kg	0.000015 %		
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.16	mg/kg		0.16	mg/kg	0.000016 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.7	mg/kg		3.7	mg/kg	0.00037 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40	mg/kg		40	mg/kg	0.004 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.07	mg/kg		0.07	mg/kg	0.000007 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.23	mg/kg		0.23	mg/kg	0.000023 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.13	mg/kg		0.13	mg/kg	0.000013 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.18	mg/kg		0.18	mg/kg	0.000018 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.5	mg/kg		1.5	mg/kg	0.00015 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7	mg/kg	5.719	4.003	mg/kg	0.0004 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.2	mg/kg		2.2	mg/kg	0.00022 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				170	mg/kg	1.252	212.802	mg/kg	0.0213 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		**<LOD**
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
			205-912-4	206-44-0									
21		fluorene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	160	mg/kg		160	mg/kg	0.016 %		
		082-001-00-6											
24		mercury { mercury }				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	33	mg/kg		33	mg/kg	0.0033 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.98	mg/kg		0.98	mg/kg	0.000098 %		
			201-581-5	85-01-8									
28		monohydric phenols				0.6	mg/kg		0.6	mg/kg	0.00006 %		
				P1186									
29		pyrene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
			204-927-3	129-00-0									
30		selenium { selenium }				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				53	mg/kg	1.785	94.615	mg/kg	0.00946 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				1000	mg/kg	1.245	1244.714	mg/kg	0.124 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.183 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP213

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP213
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		2.6 mg/kg		2.6 mg/kg	0.00026 %		
2	acenaphthylene		205-917-1	208-96-8		4.2 mg/kg		4.2 mg/kg	0.00042 %		
3	anthracene		204-371-1	120-12-7		5.1 mg/kg		5.1 mg/kg	0.00051 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		2.7 mg/kg		2.7 mg/kg	0.00027 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.7 mg/kg		3.7 mg/kg	0.00037 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		5 mg/kg		5 mg/kg	0.0005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.7 mg/kg		2.7 mg/kg	0.00027 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				45	mg/kg	1.252	56.33	mg/kg	0.00563 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		**<LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				7.6	mg/kg		7.6	mg/kg	0.00076 %		
			205-912-4	206-44-0									
21		fluorene				6.5	mg/kg		6.5	mg/kg	0.00065 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	100	mg/kg		100	mg/kg	0.01 %		
		082-001-00-6											
24		mercury { mercury }				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				8.1	mg/kg		8.1	mg/kg	0.00081 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	25	mg/kg		25	mg/kg	0.0025 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				22	mg/kg		22	mg/kg	0.0022 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		**<LOD**
				P1186									
29		pyrene				20	mg/kg		20	mg/kg	0.002 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				525.5	mg/kg		525.5	mg/kg	0.0526 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				69	mg/kg	1.245	85.885	mg/kg	0.00859 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		**<LOD**
		024-017-00-8											
										Total:	0.0984 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.00002%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0526%)

Classification of sample: GEO_TP213[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP213[2]
Sample Depth:
4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.45	mg/kg		0.45	mg/kg	0.000045 %		
2		acenaphthylene		205-917-1	208-96-8		0.43	mg/kg		0.43	mg/kg	0.000043 %		
3		anthracene		204-371-1	120-12-7		0.74	mg/kg		0.74	mg/kg	0.000074 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1	mg/kg		1	mg/kg	0.0001 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.5	mg/kg		7.5	mg/kg	0.00075 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.28	mg/kg		0.28	mg/kg	0.000028 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.49	mg/kg		0.49	mg/kg	0.000049 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.43	mg/kg		0.43	mg/kg	0.000043 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.35	mg/kg		0.35	mg/kg	0.000035 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5	mg/kg	5.719	2.86	mg/kg	0.000286 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1	mg/kg		0.1	mg/kg	0.00001 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.5	mg/kg		0.5	mg/kg	0.00005 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		27	mg/kg	1.252	33.798	mg/kg	0.00338 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.14	mg/kg		0.14	mg/kg	0.000014 %		
20		fluoranthene		205-912-4	206-44-0		1.2	mg/kg		1.2	mg/kg	0.00012 %		
21		fluorene		201-695-5	86-73-7		0.93	mg/kg		0.93	mg/kg	0.000093 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	190	mg/kg		190	mg/kg	0.019 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.15	mg/kg		0.15	mg/kg	0.000015 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		2	mg/kg		2	mg/kg	0.0002 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22	mg/kg		22	mg/kg	0.0022 %		
27		phenanthrene		201-581-5	85-01-8		3.6	mg/kg		3.6	mg/kg	0.00036 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		2.4	mg/kg		2.4	mg/kg	0.00024 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		142.2	mg/kg		142.2	mg/kg	0.0142 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		51	mg/kg	1.245	63.48	mg/kg	0.00635 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0543 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.00001%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0142%)

Classification of sample: GEO_TP213[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP213[3]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.52 mg/kg		0.52 mg/kg	0.000052 %		
2	acenaphthylene		205-917-1	208-96-8		1.3 mg/kg		1.3 mg/kg	0.00013 %		
3	anthracene		204-371-1	120-12-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.4 mg/kg		3.4 mg/kg	0.00034 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18 mg/kg		18 mg/kg	0.0018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		5.6 mg/kg		5.6 mg/kg	0.00056 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.2 mg/kg		3.2 mg/kg	0.00032 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		6.2 mg/kg		6.2 mg/kg	0.00062 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		5.9 mg/kg		5.9 mg/kg	0.00059 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6 mg/kg	5.719	3.432 mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.8 mg/kg		0.8 mg/kg	0.00008 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				4.2	mg/kg		4.2	mg/kg	0.00042 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				200	mg/kg	1.252	250.355	mg/kg	0.025 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				6	mg/kg		6	mg/kg	0.0006 %		
			205-912-4	206-44-0									
21		fluorene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				3	mg/kg		3	mg/kg	0.0003 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	230	mg/kg		230	mg/kg	0.023 %		
		082-001-00-6											
24		mercury { mercury }				0.97	mg/kg		0.97	mg/kg	0.000097 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				1	mg/kg		1	mg/kg	0.0001 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	26	mg/kg		26	mg/kg	0.0026 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
29		pyrene				11	mg/kg		11	mg/kg	0.0011 %		
			204-927-3	129-00-0									
30		selenium { selenium }				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	71.407	mg/kg	0.00714 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0887 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP214

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP214
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		14 mg/kg		14 mg/kg	0.0014 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		23 mg/kg	1.252	28.791 mg/kg	0.00288 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.1 mg/kg		1.1 mg/kg	0.00011 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22 mg/kg		22 mg/kg	0.0022 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	42.844	mg/kg	0.00428 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0224 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP214[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP214[2]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5 mg/kg		5 mg/kg	0.0005 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.3 mg/kg		0.3 mg/kg	0.00003 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.1 mg/kg	1.462	13.3 mg/kg	0.00133 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		12 mg/kg	1.252	15.021 mg/kg	0.0015 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.3 mg/kg		9.3 mg/kg	0.00093 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	9.9 mg/kg		9.9 mg/kg	0.00099 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				12	mg/kg	1.785	21.422	mg/kg	0.00214 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				28	mg/kg	1.245	34.852	mg/kg	0.00349 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0114 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP215

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP215
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.06	mg/kg		0.06	mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.6	mg/kg		1.6	mg/kg	0.00016 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		16	mg/kg		16	mg/kg	0.0016 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.06	mg/kg		0.06	mg/kg	0.000006 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.11	mg/kg		0.11	mg/kg	0.000011 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.14	mg/kg		0.14	mg/kg	0.000014 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3	mg/kg		1.3	mg/kg	0.00013 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.6	mg/kg	5.719	3.432	mg/kg	0.000343 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				83	mg/kg	1.252	103.897	mg/kg	0.0104 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.7	mg/kg	1.884	1.319	mg/kg	0.000132 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	97	mg/kg		97	mg/kg	0.0097 %		
		082-001-00-6											
24		mercury { mercury }				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.38	mg/kg		0.38	mg/kg	0.000038 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				37	mg/kg	1.785	66.052	mg/kg	0.00661 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				170	mg/kg	1.245	211.601	mg/kg	0.0212 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0565 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP216

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP216
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.6 mg/kg		8.6 mg/kg	0.00086 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		29 mg/kg	1.252	36.302 mg/kg	0.00363 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	32 mg/kg		32 mg/kg	0.0032 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				61	mg/kg	1.245	75.928	mg/kg	0.00759 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0255 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP216[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP216[2]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.2 mg/kg		6.2 mg/kg	0.00062 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				25	mg/kg	1.252	31.294	mg/kg	0.00313 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12	mg/kg		12	mg/kg	0.0012 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	22	mg/kg		22	mg/kg	0.0022 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				58	mg/kg	1.245	72.193	mg/kg	0.00722 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0202 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP217

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP217
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.9 mg/kg		5.9 mg/kg	0.00059 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2.4 mg/kg	5.719	13.726 mg/kg	0.00137 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.7 mg/kg	1.462	12.716 mg/kg	0.00127 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		21 mg/kg	1.252	26.287 mg/kg	0.00263 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.23 mg/kg		0.23 mg/kg	0.000023 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	14 mg/kg		14 mg/kg	0.0014 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				12	mg/kg	1.785	21.422	mg/kg	0.00214 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				44	mg/kg	1.245	54.767	mg/kg	0.00548 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0163 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP217[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP217[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5.1 mg/kg		5.1 mg/kg	0.00051 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		37 mg/kg		37 mg/kg	0.0037 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.4 mg/kg		2.4 mg/kg	0.00024 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		230 mg/kg	1.252	287.909 mg/kg	0.0288 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.5 mg/kg	1.884	0.942 mg/kg	0.0000942 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	38 mg/kg		38 mg/kg	0.0038 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				75	mg/kg	1.785	133.889	mg/kg	0.0134 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				780	mg/kg	1.245	970.877	mg/kg	0.0971 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.168 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP218

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP218
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		12 mg/kg		12 mg/kg	0.0012 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				27	mg/kg	1.252	33.798	mg/kg	0.00338 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.7	mg/kg	1.884	1.319	mg/kg	0.000132 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	50	mg/kg		50	mg/kg	0.005 %		
		082-001-00-6											
24		mercury { mercury }				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	19	mg/kg		19	mg/kg	0.0019 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	32.133	mg/kg	0.00321 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				43	mg/kg	1.245	53.523	mg/kg	0.00535 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0246 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP219

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP219
Sample Depth:
3.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.9 mg/kg		4.9 mg/kg	0.00049 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9 mg/kg	1.462	13.154 mg/kg	0.00132 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				11	mg/kg	1.252	13.77	mg/kg	0.00138 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	15	mg/kg		15	mg/kg	0.0015 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	7.4	mg/kg		7.4	mg/kg	0.00074 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				8.9	mg/kg	1.785	15.888	mg/kg	0.00159 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				22	mg/kg	1.245	27.384	mg/kg	0.00274 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0103 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_TP219[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_TP219[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
2	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.3 mg/kg		0.3 mg/kg	0.00003 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	8.7 mg/kg		8.7 mg/kg	0.00087 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		180 mg/kg		180 mg/kg	0.018 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.4 mg/kg		0.4 mg/kg	0.00004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.7 mg/kg		0.7 mg/kg	0.00007 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.7 mg/kg		0.7 mg/kg	0.00007 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1 mg/kg		1 mg/kg	0.0001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.6 mg/kg		2.6 mg/kg	0.00026 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg	0.000572 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.9 mg/kg		1.9 mg/kg	0.00019 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		57 mg/kg	1.462	83.309 mg/kg	0.00833 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				140	mg/kg	1.252	175.249	mg/kg	0.0175 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			205-912-4	206-44-0									
21		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	430	mg/kg		430	mg/kg	0.043 %		
		082-001-00-6											
24		mercury { mercury }				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				50	mg/kg	1.785	89.259	mg/kg	0.00893 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				240	mg/kg	1.245	298.731	mg/kg	0.0299 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.132 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS201

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS201
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.06 mg/kg		0.06 mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.1 mg/kg		4.1 mg/kg	0.00041 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		44 mg/kg		44 mg/kg	0.0044 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.04 mg/kg		0.04 mg/kg	0.000004 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.08 mg/kg		0.08 mg/kg	0.000008 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.07 mg/kg		0.07 mg/kg	0.000007 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2 mg/kg		2 mg/kg	0.0002 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	2.4 mg/kg		2.4 mg/kg	0.00024 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				280	mg/kg	1.252	350.497	mg/kg	0.035 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	170	mg/kg		170	mg/kg	0.017 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	50	mg/kg		50	mg/kg	0.005 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			204-927-3	129-00-0									
30		selenium { selenium }				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				64	mg/kg	1.785	114.252	mg/kg	0.0114 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				910	mg/kg	1.245	1132.69	mg/kg	0.113 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.19 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS202

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS202
Sample Depth:
5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		7.3 mg/kg		7.3 mg/kg	0.00073 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		27 mg/kg	1.252	33.798 mg/kg	0.00338 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	30 mg/kg		30 mg/kg	0.003 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				55	mg/kg	1.245	68.459	mg/kg	0.00685 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0243 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS202[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS202[2]
Sample Depth:
0.3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
2	•	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	•	TPH (C6 to C40) petroleum group			TPH		210 mg/kg		210 mg/kg	0.021 %		
									Total:	0.021 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.021%)

Classification of sample: GEO_WS202[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS202[3]
Sample Depth:
0.5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.1 mg/kg		8.1 mg/kg	0.00081 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		28	mg/kg	1.252	35.05	mg/kg	0.0035 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25	mg/kg		25	mg/kg	0.0025 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.07	mg/kg		0.07	mg/kg	0.000007 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26	mg/kg		26	mg/kg	0.0026 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		54	mg/kg	1.245	67.215	mg/kg	0.00672 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0251 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS202[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS202[4]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4.9 mg/kg		4.9 mg/kg	0.00049 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.9 mg/kg	1.462	14.469 mg/kg	0.00145 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		20 mg/kg	1.252	25.036 mg/kg	0.0025 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	30 mg/kg		30 mg/kg	0.003 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.07 mg/kg		0.07 mg/kg	0.000007 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	13 mg/kg		13 mg/kg	0.0013 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				13	mg/kg	1.785	23.207	mg/kg	0.00232 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				27	mg/kg	1.245	33.607	mg/kg	0.00336 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.015 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS204

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS204	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				140	mg/kg		140	mg/kg	0.014 %		
				TPH									
										Total:	0.014 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.014%)

Classification of sample: GEO_WS204[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS204[2]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.5 mg/kg		6.5 mg/kg	0.00065 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				15	mg/kg	1.252	18.777	mg/kg	0.00188 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	11	mg/kg		11	mg/kg	0.0011 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	13	mg/kg		13	mg/kg	0.0013 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				19	mg/kg	1.785	33.919	mg/kg	0.00339 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				43	mg/kg	1.245	53.523	mg/kg	0.00535 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS205

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS205
Sample Depth:
0.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.4 mg/kg		3.4 mg/kg	0.00034 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
3	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
4	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
5	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
6	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
7	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10 mg/kg	1.462	14.616 mg/kg	0.00146 %		
8	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		130 mg/kg	1.252	162.731 mg/kg	0.0163 %		
9	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.3 mg/kg	1.884	0.565 mg/kg	0.0000565 %		
10	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
11	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	100 mg/kg		100 mg/kg	0.01 %		
12	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.06 mg/kg		0.06 mg/kg	0.000006 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		nickel { nickel }			7	43	mg/kg		43	mg/kg	0.0043 %		
		028-002-00-7	231-111-4	7440-02-0									
14		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
15		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
16		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
				TPH									
18		vanadium { divanadium pentaoxide; vanadium pentoxide }				39	mg/kg	1.785	69.622	mg/kg	0.00696 %		
		023-001-00-8	215-239-8	1314-62-1									
19		zinc { zinc oxide }				170	mg/kg	1.245	211.601	mg/kg	0.0212 %		
		030-013-00-7	215-222-5	1314-13-2									
20		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0634 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS205[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
GEO_WS205[2]
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.14%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	12 mg/kg		12 mg/kg	0.0012 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		65 mg/kg		65 mg/kg	0.0065 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.04 mg/kg		0.04 mg/kg	0.000004 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.3 mg/kg		2.3 mg/kg	0.00023 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of				1	0.4 mg/kg		0.4 mg/kg	0.00004 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5											
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		81	mg/kg	1.462	118.386	mg/kg	0.0118 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		820	mg/kg	1.252	1026.457	mg/kg	0.103 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.09	mg/kg		0.09	mg/kg	0.000009 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1400	mg/kg		1400	mg/kg	0.14 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.51	mg/kg		0.51	mg/kg	0.000051 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	56	mg/kg		56	mg/kg	0.0056 %		
27		phenanthrene		201-581-5	85-01-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.09	mg/kg		0.09	mg/kg	0.000009 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		380	mg/kg	1.785	678.37	mg/kg	0.0678 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	136.919	mg/kg	0.0137 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.351 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS205[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS205[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	●	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	●	TPH (C6 to C40) petroleum group				26	mg/kg		26	mg/kg	0.0026 %		
				TPH									
										Total:	0.0026 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0026%)

Classification of sample: GEO_WS206

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS206
Sample Depth:
4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		5.8 mg/kg		5.8 mg/kg	0.00058 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.3 mg/kg		0.3 mg/kg	0.00003 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4 mg/kg	5.719	2.288 mg/kg	0.000229 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.2 mg/kg	1.462	11.985 mg/kg	0.0012 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				12	mg/kg	1.252	15.021	mg/kg	0.0015 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	6.2	mg/kg		6.2	mg/kg	0.00062 %		
		082-001-00-6											
24		mercury { mercury }				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	8.5	mg/kg		8.5	mg/kg	0.00085 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				11	mg/kg	1.785	19.637	mg/kg	0.00196 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				24	mg/kg	1.245	29.873	mg/kg	0.00299 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0105 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS206[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS206[2]
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.11 mg/kg		0.11 mg/kg	0.000011 %		
2	acenaphthylene		205-917-1	208-96-8		0.03 mg/kg		0.03 mg/kg	0.000003 %		
3	anthracene		204-371-1	120-12-7		0.18 mg/kg		0.18 mg/kg	0.000018 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6.2 mg/kg		6.2 mg/kg	0.00062 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.17 mg/kg		0.17 mg/kg	0.000017 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.35 mg/kg	0.000035 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.28 mg/kg		0.28 mg/kg	0.000028 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.37 mg/kg		0.37 mg/kg	0.000037 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.1 mg/kg		0.1 mg/kg	0.00001 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				20	mg/kg	1.252	25.036	mg/kg	0.0025 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-912-4	206-44-0									
21		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	43	mg/kg		43	mg/kg	0.0043 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	14	mg/kg		14	mg/kg	0.0014 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.95	mg/kg		0.95	mg/kg	0.000095 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
				P1186									
29		pyrene				0.95	mg/kg		0.95	mg/kg	0.000095 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				47	mg/kg	1.245	58.502	mg/kg	0.00585 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.0204 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS206[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS206[3]
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
				TPH									
										Total:	0.00005 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: GEO_WS207

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS207	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1	mg/kg		1.1	mg/kg	0.00011 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		13	mg/kg		13	mg/kg	0.0013 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9	mg/kg		0.9	mg/kg	0.00009 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1	mg/kg	5.719	5.719	mg/kg	0.000572 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21	mg/kg	1.462	30.693	mg/kg	0.00307 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				45	mg/kg	1.252	56.33	mg/kg	0.00563 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	44	mg/kg		44	mg/kg	0.0044 %		
		082-001-00-6											
24		mercury { mercury }				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	19	mg/kg		19	mg/kg	0.0019 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	58.911	mg/kg	0.00589 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				88	mg/kg	1.245	109.535	mg/kg	0.011 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0343 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS207[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS207[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6 mg/kg		6 mg/kg	0.0006 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		26 mg/kg	1.252	32.546 mg/kg	0.00325 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	28 mg/kg		28 mg/kg	0.0028 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				53	mg/kg	1.245	65.97	mg/kg	0.0066 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0232 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS207[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS207[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1 mg/kg		1 mg/kg	0.0001 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.6 mg/kg		8.6 mg/kg	0.00086 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		26 mg/kg	1.252	32.546 mg/kg	0.00325 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	25 mg/kg		25 mg/kg	0.0025 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	44.63	mg/kg	0.00446 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				54	mg/kg	1.245	67.215	mg/kg	0.00672 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0225 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS208

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS208	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.12 mg/kg		0.12 mg/kg	0.000012 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.19 mg/kg		0.19 mg/kg	0.000019 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.08 mg/kg		0.08 mg/kg	0.000008 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.21 mg/kg		0.21 mg/kg	0.000021 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.14 mg/kg		0.14 mg/kg	0.000014 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.22 mg/kg		0.22 mg/kg	0.000022 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10 mg/kg	1.462	14.616 mg/kg	0.00146 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.22	mg/kg		0.22	mg/kg	0.000022 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		52	mg/kg	1.252	65.092	mg/kg	0.00651 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				160	mg/kg	1.884	301.44	mg/kg	0.0301 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.83	mg/kg		0.83	mg/kg	0.000083 %		
21		fluorene		201-695-5	86-73-7		0.08	mg/kg		0.08	mg/kg	0.000008 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.08	mg/kg		0.08	mg/kg	0.000008 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	240	mg/kg		240	mg/kg	0.024 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.11	mg/kg		0.11	mg/kg	0.000011 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.09	mg/kg		0.09	mg/kg	0.000009 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	18	mg/kg		18	mg/kg	0.0018 %		
27		phenanthrene		201-581-5	85-01-8		0.79	mg/kg		0.79	mg/kg	0.000079 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.63	mg/kg		0.63	mg/kg	0.000063 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		250	mg/kg		250	mg/kg	0.025 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		15	mg/kg	1.785	26.778	mg/kg	0.00268 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		250	mg/kg	1.245	311.178	mg/kg	0.0311 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.125 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.025%)

Classification of sample: GEO_WS209

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS209
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.2 mg/kg		3.2 mg/kg	0.00032 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		43 mg/kg		43 mg/kg	0.0043 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.2 mg/kg		2.2 mg/kg	0.00022 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5 mg/kg		0.5 mg/kg	0.00005 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				170	mg/kg	1.252	212.802	mg/kg	0.0213 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	130	mg/kg		130	mg/kg	0.013 %		
		082-001-00-6											
24		mercury { mercury }				0.39	mg/kg		0.39	mg/kg	0.000039 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	33	mg/kg		33	mg/kg	0.0033 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				43	mg/kg	1.785	76.763	mg/kg	0.00768 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				97	mg/kg	1.245	120.737	mg/kg	0.0121 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0658 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS209[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS209[2]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.3 mg/kg		2.3 mg/kg	0.00023 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		20 mg/kg		20 mg/kg	0.002 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1 mg/kg		1 mg/kg	0.0001 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	6.291 mg/kg	0.000629 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		58 mg/kg	1.252	72.603 mg/kg	0.00726 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	87 mg/kg		87 mg/kg	0.0087 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.22 mg/kg		0.22 mg/kg	0.000022 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	26 mg/kg		26 mg/kg	0.0026 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				35	mg/kg	1.785	62.481	mg/kg	0.00625 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0389 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS209[3]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
GEO_WS209[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.3 m	Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.14 mg/kg		0.14 mg/kg	0.000014 %		
2	acenaphthylene		205-917-1	208-96-8		0.06 mg/kg		0.06 mg/kg	0.000006 %		
3	anthracene		204-371-1	120-12-7		0.28 mg/kg		0.28 mg/kg	0.000028 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	6.1 mg/kg		6.1 mg/kg	0.00061 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		23 mg/kg		23 mg/kg	0.0023 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.3	mg/kg		0.3	mg/kg	0.00003 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.57	mg/kg		0.57	mg/kg	0.000057 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.48	mg/kg		0.48	mg/kg	0.000048 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.72	mg/kg		0.72	mg/kg	0.000072 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.4	mg/kg	5.719	2.288	mg/kg	0.000229 %		
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.7	mg/kg		0.7	mg/kg	0.00007 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.77	mg/kg		0.77	mg/kg	0.000077 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		150	mg/kg	1.252	187.766	mg/kg	0.0188 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				69	mg/kg	1.884	129.996	mg/kg	0.013 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.07	mg/kg		0.07	mg/kg	0.000007 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		1.8	mg/kg		1.8	mg/kg	0.00018 %		
21		fluorene		201-695-5	86-73-7		0.14	mg/kg		0.14	mg/kg	0.000014 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.23	mg/kg		0.23	mg/kg	0.000023 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	230	mg/kg		230	mg/kg	0.023 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.09	mg/kg		0.09	mg/kg	0.000009 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.09	mg/kg		0.09	mg/kg	0.000009 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	25	mg/kg		25	mg/kg	0.0025 %		
27		phenanthrene		201-581-5	85-01-8		1.1	mg/kg		1.1	mg/kg	0.00011 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		1.7	mg/kg		1.7	mg/kg	0.00017 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				1100	mg/kg		1100	mg/kg	0.11 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				32	mg/kg	1.785	57.126	mg/kg	0.00571 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				230	mg/kg	1.245	286.284	mg/kg	0.0286 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS210

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS210	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	●	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	●	TPH (C6 to C40) petroleum group				96	mg/kg		96	mg/kg	0.0096 %		
				TPH									
										Total:	0.0096 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0096%)

Classification of sample: GEO_WS210[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS210[2]
Sample Depth:
0.7 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.06 mg/kg		0.06 mg/kg	0.000006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	3.6 mg/kg		3.6 mg/kg	0.00036 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		25 mg/kg		25 mg/kg	0.0025 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.03 mg/kg		0.03 mg/kg	0.000003 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.12 mg/kg		0.12 mg/kg	0.000012 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.8 mg/kg	5.719	4.575 mg/kg	0.000458 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		44 mg/kg	1.462	64.308 mg/kg	0.00643 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		170	mg/kg	1.252	212.802	mg/kg	0.0213 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
21		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.03	mg/kg		0.03	mg/kg	0.000003 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	110	mg/kg		110	mg/kg	0.011 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.14	mg/kg		0.14	mg/kg	0.000014 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.04	mg/kg		0.04	mg/kg	0.000004 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	35	mg/kg		35	mg/kg	0.0035 %		
27		phenanthrene		201-581-5	85-01-8		0.25	mg/kg		0.25	mg/kg	0.000025 %		
28		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
29		pyrene		204-927-3	129-00-0		0.31	mg/kg		0.31	mg/kg	0.000031 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		160	mg/kg	1.785	285.63	mg/kg	0.0286 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		410	mg/kg	1.245	510.333	mg/kg	0.051 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.126 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS211

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS211
Sample Depth:
4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1 mg/kg		1 mg/kg	0.0001 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11 mg/kg		11 mg/kg	0.0011 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.2 mg/kg	5.719	1.144 mg/kg	0.000114 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				39	mg/kg	1.252	48.819	mg/kg	0.00488 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	55	mg/kg		55	mg/kg	0.0055 %		
		082-001-00-6											
24		mercury { mercury }				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	20	mg/kg		20	mg/kg	0.002 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				48	mg/kg	1.245	59.746	mg/kg	0.00597 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS211[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS211[2]
Sample Depth:
5 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	2.8 mg/kg		2.8 mg/kg	0.00028 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		21 mg/kg		21 mg/kg	0.0021 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.6 mg/kg		1.6 mg/kg	0.00016 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<LOD
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.4 mg/kg		0.4 mg/kg	0.00004 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		96 mg/kg	1.252	120.171 mg/kg	0.012 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	41 mg/kg		41 mg/kg	0.0041 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.14 mg/kg		0.14 mg/kg	0.000014 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	43 mg/kg		43 mg/kg	0.0043 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		**<LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				45	mg/kg	1.785	80.333	mg/kg	0.00803 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				100	mg/kg	1.245	124.471	mg/kg	0.0124 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0463 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS212

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS212
Sample Depth:
0.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		1.9 mg/kg		1.9 mg/kg	0.00019 %		
2	acenaphthylene		205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
3	anthracene		204-371-1	120-12-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	4.3 mg/kg		4.3 mg/kg	0.00043 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		28 mg/kg		28 mg/kg	0.0028 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.38 mg/kg		0.38 mg/kg	0.000038 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.7 mg/kg		1.7 mg/kg	0.00017 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.97 mg/kg		0.97 mg/kg	0.000097 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.3 mg/kg		1.3 mg/kg	0.00013 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		2.3 mg/kg		2.3 mg/kg	0.00023 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				240	mg/kg	1.252	300.426	mg/kg	0.03 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
			205-912-4	206-44-0									
21		fluorene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	170	mg/kg		170	mg/kg	0.017 %		
		082-001-00-6											
24		mercury { mercury }				0.92	mg/kg		0.92	mg/kg	0.000092 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	38	mg/kg		38	mg/kg	0.0038 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				8.6	mg/kg		8.6	mg/kg	0.00086 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				69.8	mg/kg		69.8	mg/kg	0.00698 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				54	mg/kg	1.785	96.4	mg/kg	0.00964 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				150	mg/kg	1.245	186.707	mg/kg	0.0187 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0964 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00698%)

Classification of sample: GEO_WS212[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
GEO_WS212[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.6 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		**<LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		290	mg/kg		290	mg/kg	0.029 %		
											Total:	0.029 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.029%)

Classification of sample: GEO_WS212[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS212[3]
Sample Depth:
4 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.9 mg/kg		1.9 mg/kg	0.00019 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9.2 mg/kg		9.2 mg/kg	0.00092 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.2 mg/kg	5.719	<1.144 mg/kg	<0.000114 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				39	mg/kg	1.252	48.819	mg/kg	0.00488 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	44	mg/kg		44	mg/kg	0.0044 %		
		082-001-00-6											
24		mercury { mercury }				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	22	mg/kg		22	mg/kg	0.0022 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				20	mg/kg	1.785	35.704	mg/kg	0.00357 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				55	mg/kg	1.245	68.459	mg/kg	0.00685 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0254 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS213A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS213A
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.3 mg/kg		1.3 mg/kg	0.00013 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		13 mg/kg		13 mg/kg	0.0013 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.3 mg/kg		0.3 mg/kg	0.00003 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				38	mg/kg	1.252	47.568	mg/kg	0.00476 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	32	mg/kg		32	mg/kg	0.0032 %		
		082-001-00-6											
24		mercury { mercury }				0.38	mg/kg		0.38	mg/kg	0.000038 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	16	mg/kg		16	mg/kg	0.0016 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			201-581-5	85-01-8									
28		monohydric phenols				2.7	mg/kg		2.7	mg/kg	0.00027 %		
				P1186									
29		pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc oxide }				81	mg/kg	1.245	100.822	mg/kg	0.0101 %		
		030-013-00-7	215-222-5	1314-13-2									
34		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0303 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS213A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS213A[2]
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8.4 mg/kg		8.4 mg/kg	0.00084 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5 mg/kg	5.719	2.86 mg/kg	0.000286 %		
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				23	mg/kg	1.252	28.791	mg/kg	0.00288 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
21		fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	26	mg/kg		26	mg/kg	0.0026 %		
		082-001-00-6											
24		mercury { mercury }				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	14	mg/kg		14	mg/kg	0.0014 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			201-581-5	85-01-8									
28		monohydric phenols				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
				P1186									
29		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
30		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	49.985	mg/kg	0.005 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				41	mg/kg	1.245	51.033	mg/kg	0.0051 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
		024-017-00-8											
										Total:	0.0214 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: GEO_WS214

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
GEO_WS214

Sample Depth:
2 m

LoW Code:

Chapter:
17: Construction and Demolition Wastes (including excavated soil from contaminated sites)

Entry:
17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3.6 mg/kg		3.6 mg/kg	0.00036 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.4 mg/kg		0.4 mg/kg	0.00004 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		11 mg/kg	1.252	13.77 mg/kg	0.00138 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	7 mg/kg		7 mg/kg	0.0007 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	11 mg/kg		11 mg/kg	0.0011 %		
12	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				13	mg/kg	1.785	23.207	mg/kg	0.00232 %		
		023-001-00-8	215-239-8	1314-62-1									
15		zinc { zinc oxide }				26	mg/kg	1.245	32.363	mg/kg	0.00324 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0111 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: OP01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
OP01
Sample Depth:
0.1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
2	acenaphthylene		205-917-1	208-96-8		0.18 mg/kg		0.18 mg/kg	0.000018 %		
3	anthracene		204-371-1	120-12-7		1.04 mg/kg		1.04 mg/kg	0.000104 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	21 mg/kg		21 mg/kg	0.0021 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		58 mg/kg		58 mg/kg	0.0058 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		1.04 mg/kg		1.04 mg/kg	0.000104 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.26 mg/kg		2.26 mg/kg	0.000226 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.16 mg/kg		2.16 mg/kg	0.000216 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.64 mg/kg		2.64 mg/kg	0.000264 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.2 mg/kg		1.2 mg/kg	0.00012 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	7.2 mg/kg		7.2 mg/kg	0.00072 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		42 mg/kg	1.462	61.385 mg/kg	0.00614 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		2.51	mg/kg		2.51	mg/kg	0.000251 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		275	mg/kg	1.252	344.239	mg/kg	0.0344 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.24	mg/kg		0.24	mg/kg	0.000024 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		fluoranthene		205-912-4	206-44-0		4.48	mg/kg		4.48	mg/kg	0.000448 %		
21		fluorene		201-695-5	86-73-7		0.17	mg/kg		0.17	mg/kg	0.000017 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		1.16	mg/kg		1.16	mg/kg	0.000116 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	477	mg/kg		477	mg/kg	0.0477 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.32	mg/kg		0.32	mg/kg	0.000032 %		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.16	mg/kg		0.16	mg/kg	0.000016 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	69	mg/kg		69	mg/kg	0.0069 %		
27		phenanthrene		201-581-5	85-01-8		2.6	mg/kg		2.6	mg/kg	0.00026 %		
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
29		pyrene		204-927-3	129-00-0		4.16	mg/kg		4.16	mg/kg	0.000416 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		TPH (C6 to C40) petroleum group			TPH		557	mg/kg		557	mg/kg	0.0557 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		71	mg/kg	1.785	126.748	mg/kg	0.0127 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		684	mg/kg	1.245	851.384	mg/kg	0.0851 %		
											Total:	0.261 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0557%)

Classification of sample: OP03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
OP03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.04	mg/kg		0.04	mg/kg	0.000004 %		
2		acenaphthylene		205-917-1	208-96-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
3		anthracene		204-371-1	120-12-7		0.26	mg/kg		0.26	mg/kg	0.000026 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	21	mg/kg		21	mg/kg	0.0021 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		18	mg/kg		18	mg/kg	0.0018 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.26	mg/kg		0.26	mg/kg	0.000026 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.47	mg/kg		0.47	mg/kg	0.000047 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.48	mg/kg		0.48	mg/kg	0.000048 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.63	mg/kg		0.63	mg/kg	0.000063 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.4	mg/kg		3.4	mg/kg	0.00034 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	33.616	mg/kg	0.00336 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				129	mg/kg	1.252	161.479	mg/kg	0.0161 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
			205-912-4	206-44-0									
21		fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	191	mg/kg		191	mg/kg	0.0191 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	28	mg/kg		28	mg/kg	0.0028 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.93	mg/kg		0.93	mg/kg	0.000093 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				183	mg/kg		183	mg/kg	0.0183 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	46.415	mg/kg	0.00464 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				322	mg/kg	1.245	400.798	mg/kg	0.0401 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.11 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0183%)

Classification of sample: SoilSamp02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp02

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	14 mg/kg		14 mg/kg	0.0014 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3 mg/kg		3 mg/kg	0.0003 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1 mg/kg		1 mg/kg	0.0001 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		25 mg/kg	1.252	31.294 mg/kg	0.00313 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	44 mg/kg		44 mg/kg	0.0044 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.05 mg/kg		1.05 mg/kg	0.000105 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	27 mg/kg		27 mg/kg	0.0027 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				25	mg/kg		25	mg/kg	0.0025 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				79	mg/kg	1.245	98.332	mg/kg	0.00983 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0348 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0025%)

Classification of sample: SoilSamp04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp04

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		8 mg/kg		8 mg/kg	0.0008 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.2 mg/kg		1.2 mg/kg	0.00012 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		79 mg/kg	1.252	98.89 mg/kg	0.00989 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	237 mg/kg		237 mg/kg	0.0237 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.01 mg/kg		1.01 mg/kg	0.000101 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	21 mg/kg		21 mg/kg	0.0021 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				52	mg/kg		52	mg/kg	0.0052 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	48.2	mg/kg	0.00482 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				206	mg/kg	1.245	256.411	mg/kg	0.0256 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0781 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0052%)

Classification of sample: SoilSamp05

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp05

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	41 mg/kg		41 mg/kg	0.0041 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		36 mg/kg		36 mg/kg	0.0036 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		3.5 mg/kg	5.719	20.017 mg/kg	0.002 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	5.5 mg/kg		5.5 mg/kg	0.00055 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		40 mg/kg	1.462	58.462 mg/kg	0.00585 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		626 mg/kg	1.252	783.612 mg/kg	0.0784 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1 mg/kg	1.884	1.884 mg/kg	0.000188 %		
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	683 mg/kg		683 mg/kg	0.0683 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.27 mg/kg		0.27 mg/kg	0.000027 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	38 mg/kg		38 mg/kg	0.0038 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				10	mg/kg		10	mg/kg	0.001 %		
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				158	mg/kg		158	mg/kg	0.0158 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				49	mg/kg	1.785	87.474	mg/kg	0.00875 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				988	mg/kg	1.245	1229.777	mg/kg	0.123 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.315 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0158%)

Classification of sample: SoilSamp07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp07

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	35 mg/kg		35 mg/kg	0.0035 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6 mg/kg		6 mg/kg	0.0006 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.5 mg/kg		0.5 mg/kg	0.00005 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.1 mg/kg		1.1 mg/kg	0.00011 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		41 mg/kg	1.252	51.323 mg/kg	0.00513 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	172 mg/kg		172 mg/kg	0.0172 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		0.88 mg/kg		0.88 mg/kg	0.000088 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	14 mg/kg		14 mg/kg	0.0014 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				35	mg/kg		35	mg/kg	0.0035 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				23	mg/kg	1.785	41.059	mg/kg	0.00411 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				169	mg/kg	1.245	210.357	mg/kg	0.021 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0608 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0035%)

Classification of sample: SoilSamp09

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp09

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4 mg/kg		4 mg/kg	0.0004 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.8 mg/kg		1.8 mg/kg	0.00018 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		145 mg/kg	1.252	181.508 mg/kg	0.0182 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	75 mg/kg		75 mg/kg	0.0075 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.47 mg/kg		1.47 mg/kg	0.000147 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	22 mg/kg		22 mg/kg	0.0022 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				786	mg/kg		786	mg/kg	0.0786 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	71.407	mg/kg	0.00714 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				933	mg/kg	1.245	1161.318	mg/kg	0.116 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.236 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0786%)

Classification of sample: SoilSamp10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp10

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	19 mg/kg		19 mg/kg	0.0019 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		45 mg/kg		45 mg/kg	0.0045 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.8 mg/kg		0.8 mg/kg	0.00008 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	3.8 mg/kg		3.8 mg/kg	0.00038 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		744 mg/kg	1.252	931.322 mg/kg	0.0931 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	356 mg/kg		356 mg/kg	0.0356 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		2.09 mg/kg		2.09 mg/kg	0.000209 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	34 mg/kg		34 mg/kg	0.0034 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				1	mg/kg		1	mg/kg	0.0001 %		
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				152	mg/kg		152	mg/kg	0.0152 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	71.407	mg/kg	0.00714 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				228	mg/kg	1.245	283.795	mg/kg	0.0284 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.194 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0152%)

Classification of sample: SoilSamp11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SoilSamp11

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5 mg/kg		5 mg/kg	0.0005 %		
2	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		6 mg/kg		6 mg/kg	0.0006 %		
3	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
4	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
5	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.4 mg/kg		1.4 mg/kg	0.00014 %		
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
7	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		39 mg/kg	1.252	48.819 mg/kg	0.00488 %		
8	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	154 mg/kg		154 mg/kg	0.0154 %		
10	mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		1.14 mg/kg		1.14 mg/kg	0.000114 %		
11	nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	14 mg/kg		14 mg/kg	0.0014 %		
12	monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
14		TPH (C6 to C40) petroleum group				269	mg/kg		269	mg/kg	0.0269 %		
				TPH									
15		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	37.489	mg/kg	0.00375 %		
		023-001-00-8	215-239-8	1314-62-1									
16		zinc { zinc oxide }				139	mg/kg	1.245	173.015	mg/kg	0.0173 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0755 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0269%)

Classification of sample: TP304

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP304
Sample Depth:
1.2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9 mg/kg		9 mg/kg	0.0009 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10 mg/kg	1.462	14.616 mg/kg	0.00146 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		93	mg/kg	1.252	116.415	mg/kg	0.0116 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	77	mg/kg		77	mg/kg	0.0077 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	19	mg/kg		19	mg/kg	0.0019 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		4	mg/kg		4	mg/kg	0.0004 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		16	mg/kg	1.785	28.563	mg/kg	0.00286 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		301	mg/kg	1.245	374.659	mg/kg	0.0375 %		
											Total:	0.0659 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0004%)

Classification of sample: TP304[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
TP304[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2.45 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	•	TPH (C6 to C40) petroleum group		TPH		156 mg/kg		156 mg/kg	0.0156 %		
								Total:	0.0156 %		

Key

- User supplied data
- • Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0156%)

Classification of sample: TP305

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP305
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		228 mg/kg		228 mg/kg	0.0228 %		
								Total:	0.0228 %		

Key

User supplied data
● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0228%)

Classification of sample: TP305[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
TP305[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		16 mg/kg		16 mg/kg	0.0016 %		
								Total:	0.0016 %		

Key

- User supplied data
- ● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0016%)

Classification of sample: TP305[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP305[3]
Sample Depth:
3 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	11 mg/kg		11 mg/kg	0.0011 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		31 mg/kg		31 mg/kg	0.0031 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.16 mg/kg		0.16 mg/kg	0.000016 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.15 mg/kg		0.15 mg/kg	0.000015 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		3 mg/kg		3 mg/kg	0.0003 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.5 mg/kg		1.5 mg/kg	0.00015 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.07	mg/kg		0.07	mg/kg	0.000007 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		342	mg/kg	1.252	428.108	mg/kg	0.0428 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.19	mg/kg		0.19	mg/kg	0.000019 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	131	mg/kg		131	mg/kg	0.0131 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	50	mg/kg		50	mg/kg	0.005 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		2	mg/kg		2	mg/kg	0.0002 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54	mg/kg	1.785	96.4	mg/kg	0.00964 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		121	mg/kg	1.245	150.61	mg/kg	0.0151 %		
											Total:	0.0941 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: TP306

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
TP306	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		0.01	mg/kg		0.01	mg/kg	0.000001 %		
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.07	mg/kg		0.07	mg/kg	0.000007 %		
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	9	mg/kg		9	mg/kg	0.0009 %		
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		40	mg/kg		40	mg/kg	0.004 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		0.12	mg/kg		0.12	mg/kg	0.000012 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.17	mg/kg		0.17	mg/kg	0.000017 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.25	mg/kg		0.25	mg/kg	0.000025 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.34	mg/kg		0.34	mg/kg	0.000034 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.9	mg/kg		1.9	mg/kg	0.00019 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.7	mg/kg		1.7	mg/kg	0.00017 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				297	mg/kg	1.252	371.778	mg/kg	0.0372 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
21		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	687	mg/kg		687	mg/kg	0.0687 %		
		082-001-00-6											
24		mercury { mercury }				0.45	mg/kg		0.45	mg/kg	0.000045 %		
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	40	mg/kg		40	mg/kg	0.004 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				93	mg/kg		93	mg/kg	0.0093 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				45	mg/kg	1.785	80.333	mg/kg	0.00803 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				169	mg/kg	1.245	210.357	mg/kg	0.021 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.157 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0093%)

Classification of sample: TP307

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP307
Sample Depth:
2 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.18 mg/kg		0.18 mg/kg	0.000018 %		
2	acenaphthylene		205-917-1	208-96-8		0.01 mg/kg		0.01 mg/kg	0.000001 %		
3	anthracene		204-371-1	120-12-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		9 mg/kg		9 mg/kg	0.0009 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	benzo[ghi]perylene		205-883-8	191-24-2		0.43 mg/kg		0.43 mg/kg	0.000043 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.94 mg/kg		1.94 mg/kg	0.000194 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.28 mg/kg		1.28 mg/kg	0.000128 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.61 mg/kg		1.61 mg/kg	0.000161 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.9 mg/kg		0.9 mg/kg	0.00009 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				2.45	mg/kg		2.45	mg/kg	0.000245 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				30	mg/kg	1.252	37.553	mg/kg	0.00376 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				5.43	mg/kg		5.43	mg/kg	0.000543 %		
			205-912-4	206-44-0									
21		fluorene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	31	mg/kg		31	mg/kg	0.0031 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<**LOD**
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	28	mg/kg		28	mg/kg	0.0028 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				2.41	mg/kg		2.41	mg/kg	0.000241 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				5.48	mg/kg		5.48	mg/kg	0.000548 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				187	mg/kg		187	mg/kg	0.0187 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	42.844	mg/kg	0.00428 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				89	mg/kg	1.245	110.78	mg/kg	0.0111 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0517 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0187%)

Classification of sample: TP308

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP308
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		3	mg/kg		3	mg/kg	0.0003 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7	mg/kg	1.462	10.231	mg/kg	0.00102 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		11	mg/kg	1.252	13.77	mg/kg	0.00138 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	7	mg/kg		7	mg/kg	0.0007 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	7	mg/kg		7	mg/kg	0.0007 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		8	mg/kg	1.785	14.281	mg/kg	0.00143 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		36	mg/kg	1.245	44.81	mg/kg	0.00448 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.0118 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP309

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP309
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		10	mg/kg		10	mg/kg	0.001 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
7		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.3	mg/kg		1.3	mg/kg	0.00013 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<**LOD**
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.8	mg/kg		0.8	mg/kg	0.00008 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24	mg/kg	1.462	35.077	mg/kg	0.00351 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		36	mg/kg	1.252	45.064	mg/kg	0.00451 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
21		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	88	mg/kg		88	mg/kg	0.0088 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	32	mg/kg		32	mg/kg	0.0032 %		
27		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28		monohydric phenols			P1186		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		TPH (C6 to C40) petroleum group			TPH		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	55.341	mg/kg	0.00553 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
											Total:	0.035 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP310

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP310
Sample Depth:
1 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.11 mg/kg		0.11 mg/kg	0.000011 %		
2	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.04 mg/kg	0.000004 %		
3	anthracene		204-371-1	120-12-7		0.28 mg/kg		0.28 mg/kg	0.000028 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		4 mg/kg		4 mg/kg	0.0004 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
7	benzo[ghi]perylene		205-883-8	191-24-2		0.11 mg/kg		0.11 mg/kg	0.000011 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.35 mg/kg	0.000035 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.29 mg/kg		0.29 mg/kg	0.000029 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.26 mg/kg		0.26 mg/kg	0.000026 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.9 mg/kg		0.9 mg/kg	0.00009 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<**LOD**
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { copper(II) oxide }				25	mg/kg	1.252	31.294	mg/kg	0.00313 %		
		029-016-00-6	215-269-1	1317-38-0									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		fluoranthene				0.88	mg/kg		0.88	mg/kg	0.000088 %		
			205-912-4	206-44-0									
21		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
22		indeno[123-cd]pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			205-893-2	193-39-5									
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	93	mg/kg		93	mg/kg	0.0093 %		
		082-001-00-6											
24		mercury { mercury }				<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
		080-001-00-0	231-106-7	7439-97-6									
25		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		nickel { nickel }			7	14	mg/kg		14	mg/kg	0.0014 %		
		028-002-00-7	231-111-4	7440-02-0									
27		phenanthrene				1.12	mg/kg		1.12	mg/kg	0.000112 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
				P1186									
29		pyrene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
			204-927-3	129-00-0									
30		selenium { selenium }				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				14	mg/kg	1.785	24.993	mg/kg	0.0025 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				31	mg/kg	1.245	38.586	mg/kg	0.00386 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0243 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT301

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
TT301	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		33 mg/kg		33 mg/kg	0.0033 %		
								Total:	0.0033 %		

Key

User supplied data

● Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0033%)

Classification of sample: TT301[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
TT301[2]
Sample Depth:
2.45 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.232%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.232%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.232%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.09 mg/kg		0.09 mg/kg	0.000009 %		
2	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
3	anthracene		204-371-1	120-12-7		0.11 mg/kg		0.11 mg/kg	0.000011 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	5 mg/kg		5 mg/kg	0.0005 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		29 mg/kg		29 mg/kg	0.0029 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7		benzo[ghi]perylene		205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.16 mg/kg		0.16 mg/kg	0.000016 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.13 mg/kg		0.13 mg/kg	0.000013 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.19 mg/kg		0.19 mg/kg	0.000019 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.5 mg/kg		1.5 mg/kg	0.00015 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.26 mg/kg		0.26 mg/kg	0.000026 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		150 mg/kg	1.252	187.766 mg/kg	0.0188 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		fluoranthene		205-912-4	206-44-0		0.2 mg/kg		0.2 mg/kg	0.00002 %		
21		fluorene		201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22		indeno[123-cd]pyrene		205-893-2	193-39-5		0.1 mg/kg		0.1 mg/kg	0.00001 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	464 mg/kg		464 mg/kg	0.0464 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17 mg/kg		<0.17 mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	33 mg/kg		33 mg/kg	0.0033 %		
27		phenanthrene		201-581-5	85-01-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
28		monohydric phenols			P1186		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
29		pyrene		204-927-3	129-00-0		0.61 mg/kg		0.61 mg/kg	0.000061 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				2324	mg/kg		2324	mg/kg	0.232 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				39	mg/kg	1.785	69.622	mg/kg	0.00696 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				262	mg/kg	1.245	326.115	mg/kg	0.0326 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.348 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT302

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
TT302	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00004%)
ethylbenzene: (conc.: 0.00003%)
toluene: (conc.: 0.00003%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.744%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.744%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.744%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		acenaphthene	201-469-6	83-32-9		7.29 mg/kg		7.29 mg/kg	0.000729 %		
2		acenaphthylene	205-917-1	208-96-8		10.9 mg/kg		10.9 mg/kg	0.00109 %		
3		anthracene	204-371-1	120-12-7		19.1 mg/kg		19.1 mg/kg	0.00191 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
4		antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
5		arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		11	mg/kg		11	mg/kg	0.0011 %		
6		benzene	601-020-00-8	200-753-7	71-43-2		0.41	mg/kg		0.41	mg/kg	0.000041 %		
7		benzo[ghi]perylene		205-883-8	191-24-2		29.9	mg/kg		29.9	mg/kg	0.00299 %		
8		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		39.6	mg/kg		39.6	mg/kg	0.00396 %		
9		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		39.6	mg/kg		39.6	mg/kg	0.00396 %		
10		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		35.8	mg/kg		35.8	mg/kg	0.00358 %		
11		beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
12		boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1	mg/kg	5.719	<5.719	mg/kg	<0.000572 %		<LOD
13		cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
14		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7	mg/kg	1.462	10.231	mg/kg	0.00102 %		
15		chrysene	601-048-00-0	205-923-4	218-01-9		60	mg/kg		60	mg/kg	0.006 %		
16		copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		65	mg/kg	1.252	81.365	mg/kg	0.00814 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				10	mg/kg	1.884	18.84	mg/kg	0.00188 %		
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		5.51	mg/kg		5.51	mg/kg	0.000551 %		
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.34	mg/kg		0.34	mg/kg	0.000034 %		
20		fluoranthene		205-912-4	206-44-0		59	mg/kg		59	mg/kg	0.0059 %		
21		fluorene		201-695-5	86-73-7		13.4	mg/kg		13.4	mg/kg	0.00134 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		24.1	mg/kg		24.1	mg/kg	0.00241 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	162	mg/kg		162	mg/kg	0.0162 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<LOD
25		naphthalene	601-052-00-2	202-049-5	91-20-3		9.57	mg/kg		9.57	mg/kg	0.000957 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	12	mg/kg		12	mg/kg	0.0012 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
27		phenanthrene				74.4	mg/kg		74.4	mg/kg	0.00744 %		
			201-581-5	85-01-8									
28		monohydric phenols				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
				P1186									
29		pyrene				129	mg/kg		129	mg/kg	0.0129 %		
			204-927-3	129-00-0									
30		selenium { selenium }				1	mg/kg		1	mg/kg	0.0001 %		
		034-001-00-2	231-957-4	7782-49-2									
31		toluene				0.38	mg/kg		0.38	mg/kg	0.000038 %		
		601-021-00-3	203-625-9	108-88-3									
32		TPH (C6 to C40) petroleum group				7442.41	mg/kg		7442.41	mg/kg	0.744 %		
				TPH									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				13	mg/kg	1.785	23.207	mg/kg	0.00232 %		
		023-001-00-8	215-239-8	1314-62-1									
34		zinc { zinc oxide }				126	mg/kg	1.245	156.834	mg/kg	0.0157 %		
		030-013-00-7	215-222-5	1314-13-2									
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
		024-017-00-8											
										Total:	0.849 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT302[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
TT302[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.8 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.174%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.174%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.174%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group		TPH		1740 mg/kg		1740 mg/kg	0.174 %		
								Total:	0.174 %		

Key

	User supplied data
	Hazardous result
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: TT303

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
TT303	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.35 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to hazardous because At this concentration, TPH is sufficiently dilute

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00001%)
ethylbenzene: (conc.: 0.00001%)
toluene: (conc.: 0.00003%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 5.311%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 5.311%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 2; H361d "Suspected of damaging the unborn child."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 5.311%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 5.311%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

phenanthrene: (conc.: 0.108%)

Aquatic Chronic 2; H411 "Toxic to aquatic life with long lasting effects."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 5.311%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		94.1 mg/kg		94.1 mg/kg	0.00941 %		
2	acenaphthylene		205-917-1	208-96-8		110 mg/kg		110 mg/kg	0.011 %		
3	anthracene		204-371-1	120-12-7		155 mg/kg		155 mg/kg	0.0155 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9			1	10 mg/kg		10 mg/kg	0.001 %		
5	arsenic { arsenic }	033-001-00-X	231-148-6	7440-38-2		24 mg/kg		24 mg/kg	0.0024 %		
6	benzene	601-020-00-8	200-753-7	71-43-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
7	benzo[ghi]perylene		205-883-8	191-24-2		74.6 mg/kg		74.6 mg/kg	0.00746 %		
8	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		205 mg/kg		205 mg/kg	0.0205 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		123 mg/kg		123 mg/kg	0.0123 %		
10	benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		111 mg/kg		111 mg/kg	0.0111 %		
11	beryllium { beryllium }	004-001-00-7	231-150-7	7440-41-7		0.7 mg/kg		0.7 mg/kg	0.00007 %		
12	boron { boric acid [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<1 mg/kg	5.719	<5.719 mg/kg	<0.000572 %		<LOD
13	cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex	048-001-00-5			1	1.7 mg/kg		1.7 mg/kg	0.00017 %		
14	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		40 mg/kg	1.462	58.462 mg/kg	0.00585 %		
15	chrysene	601-048-00-0	205-923-4	218-01-9		409 mg/kg		409 mg/kg	0.0409 %		
16	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0		87 mg/kg	1.252	108.905 mg/kg	0.0109 %		
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				4 mg/kg	1.884	7.536 mg/kg	0.000754 %		
18	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		19.2 mg/kg		19.2 mg/kg	0.00192 %		
19	ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.11 mg/kg		0.11 mg/kg	0.000011 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
20		fluoranthene		205-912-4	206-44-0		272	mg/kg		272	mg/kg	0.0272 %		
21		fluorene		201-695-5	86-73-7		248	mg/kg		248	mg/kg	0.0248 %		
22		indeno[123-cd]pyrene		205-893-2	193-39-5		65.4	mg/kg		65.4	mg/kg	0.00654 %		
23		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	46	mg/kg		46	mg/kg	0.0046 %		
24		mercury { mercury }	080-001-00-0	231-106-7	7439-97-6		<0.17	mg/kg		<0.17	mg/kg	<0.000017 %		<**LOD**
25		naphthalene	601-052-00-2	202-049-5	91-20-3		822	mg/kg		822	mg/kg	0.0822 %		
26		nickel { nickel }	028-002-00-7	231-111-4	7440-02-0	7	35	mg/kg		35	mg/kg	0.0035 %		
27		phenanthrene		201-581-5	85-01-8		1080	mg/kg		1080	mg/kg	0.108 %		
28		monohydric phenols			P1186		0.2	mg/kg		0.2	mg/kg	0.00002 %		
29		pyrene		204-927-3	129-00-0		437	mg/kg		437	mg/kg	0.0437 %		
30		selenium { selenium }	034-001-00-2	231-957-4	7782-49-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
31		toluene	601-021-00-3	203-625-9	108-88-3		0.32	mg/kg		0.32	mg/kg	0.000032 %		
32		TPH (C6 to C40) petroleum group			TPH		53110.32	mg/kg		53110.32	mg/kg	5.311 %		
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		40	mg/kg	1.785	71.407	mg/kg	0.00714 %		
34		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		76	mg/kg	1.245	94.598	mg/kg	0.00946 %		
35		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
											Total:	5.78 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non EU CLP determinands

- **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **arsenic** (EC Number: 231-148-6, CAS Number: 7440-38-2)

EU CLP index number: 033-001-00-X
Description/Comments: Worst Case: IARC considers arsenic Group 1; Carcinogenic to humans
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **benzo[bk]fluoranthene** (EC Number: [1] 205-911-9 [2] 205-916-6, CAS Number: [1] 205-99-2 [2] 207-08-9)

Description/Comments: Combined data from harmonised entries in CLP for benzo[b] and benzo[k]fluoranthene; C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Carc. 1B; H350 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **cadmium compounds, with the exception of cadmium sulphoselenide (xCdS.yCdSe), reaction mass of cadmium sulphide with zinc sulphide (xCdS.yZnS), reaction mass of cadmium sulphide with mercury sulphide (xCdS.yHgS), and those specified elsewhere in this Annex**

EU CLP index number: 048-001-00-5
Description/Comments: Worst Case: IARC considers cadmium compounds Group 1; Carcinogenic to humans
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

- **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

EU CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

EU CLP index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

EU CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

antimony {antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex}

Total antimony

arsenic {arsenic}

Total arsenic

beryllium {beryllium}

Total beryllium

boron {boric acid [1] boric acid [2]}

Water soluble boron

chromium {chromium(III) oxide (worst case)}

Total chromium

copper {copper(II) oxide}

Total copper

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Total cyanide

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Total lead

mercury {mercury}

Total mercury

nickel {nickel}

Total nickel

selenium {selenium}

Total selenium

vanadium {divanadium pentaoxide; vanadium pentoxide}

Total vanadium

zinc {zinc oxide}

Total zinc

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species (edit as required)

manganese {manganese sulphate}

Worst case species (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2022.192.5237.9831 (11 Jul 2022)
HazWasteOnline Database: 2022.192.5237.9831 (11 Jul 2022)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2019 - UK: 2019 No. 720 of 27th March 2019
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
17th ATP - Regulation (EU) 2021/849 of 11 March 2021

Appendix E - Ground gas monitoring summary

Installation	Date Time	Atm. Pressure	CH4		CO2		O2		H2S		CO		Flow		PID	
			min	max	min	max	min	max	min	max	min	max	min	max	min	max
		bar	%vol	%vol	%vol	%vol	%vol	%vol	ppm	ppm	ppm	ppm	l/hr	l/hr	ppmv	ppmv
BH101	26/05/2022	1012	0.4	0.4	0.1	6.9	8.1	21.6	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	06/06/2022	1011	0.4	0.4	4.7	7.4	5.3	20.1	0.0	0.0	0.0	17.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.4	0.4	5.6	8.1	4.0	18.5	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	04/07/2022	1016	0.1	0.1	6.2	8.4	4.4	16.3	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	18/07/2022	1016	1.0	1.0	5.1	9.7	3.5	18.5	0.0	0.0	0.0	2.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	6.3	7.9	8.1	19.0	0.0	0.0	0.0	1.0	0.0	0.0	0.00	0.00
	All data		**0.1**	**1.0**	**0.1**	**9.7**	**3.5**	**21.6**	**0.0**	**0.0**	**0.0**	**17.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH102	26/05/2022	1012	0.3	0.3	0.5	0.5	20.5	21.0	0.0	0.0	0.0	0.0	-0.5	-0.4	0.00	0.00
	06/06/2022	1011	0.3	0.4	0.2	0.7	21.2	21.7	0.0	0.0	0.0	0.0	-0.9	0.0	0.00	0.00
	20/06/2022	1017	0.1	0.3	0.5	1.9	18.8	21.0	0.0	0.0	1.0	2.0	-2.1	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.0	2.7	6.2	10.4	16.5	0.0	0.0	0.0	4.0	0.0	2.5	0.00	0.00
	18/07/2022	1016	0.9	0.9	0.2	0.6	16.2	20.8	0.0	0.0	1.0	3.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	1.0	1.0	3.0	7.1	11.3	18.2	0.0	0.0	0.0	15.0	0.0	0.0	0.00	0.00
	All data		**0.0**	**1.0**	**0.2**	**7.1**	**10.4**	**21.7**	**0.0**	**0.0**	**0.0**	**15.0**	**-2.1**	**2.5**	**0.0**	**0.0**
BH112	26/05/2022	1012	0.3	0.3	2.3	2.3	18.7	19.4	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	06/06/2022	1010	0.1	0.1	2.1	2.8	16.5	17.8	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	20/06/2022	1013	0.1	0.2	3.2	3.2	14.0	16.5	0.0	0.0	0.0	1.0	0.2	0.3	0.00	0.00
	05/07/2022	1020	0.0	0.0	0.1	0.1	20.2	20.4	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	18/07/2022	1013	0.8	0.8	3.3	5.2	14.0	15.9	1.0	1.0	2.0	3.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	0.9	0.9	3.1	3.2	14.9	17.0	0.0	0.0	1.0	2.0	0.1	0.1	0.00	0.00
	All data		**0.0**	**0.9**	**0.1**	**5.2**	**14.0**	**20.4**	**0.0**	**1.0**	**0.0**	**3.0**	**0.1**	**0.3**	**0.0**	**0.0**
BH201	26/05/2022	1012	0.3	0.3	1.1	1.7	11.8	19.6	0.0	0.0	0.0	0.0	-0.5	2.6	0.00	0.00
	06/06/2022	1011	0.4	0.4	1.1	2.1	10.2	19.4	0.0	0.0	0.0	0.0	0.0	0.1	0.00	0.00
	20/06/2022	1017	0.3	0.3	0.3	2.0	7.2	20.4	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	04/07/2022	1016	0.0	0.0	0.3	1.4	11.8	20.8	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	18/07/2022	1016	1.0	1.0	0.3	2.0	10.9	20.3	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.5	2.0	10.6	20.4	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**0.3**	**2.1**	**7.2**	**20.8**	**0.0**	**0.0**	**0.0**	**1.0**	**-0.5**	**2.6**	**0.0**	**0.0**
BH202	26/05/2022	1012	0.3	0.4	0.1	0.3	19.5	22.0	0.0	0.0	0.0	1.0	-0.3	0.0	0.00	0.00
	06/06/2022	1011	0.4	0.4	0.1	0.6	19.2	21.5	0.0	0.0	0.0	3.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.2	0.2	0.1	0.5	18.4	20.8	0.0	0.0	0.0	9.0	0.1	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.0	0.1	0.5	18.2	20.8	0.0	0.0	0.0	3.0	0.1	0.2	0.00	0.00
	18/07/2022	1016	1.1	1.2	0.8	4.5	15.2	20.3	0.0	0.0	1.0	1.0	0.0	0.0	0.00	0.00
	01/08/2022	1016	0.8	0.8	0.2	0.6	14.9	20.7	0.0	0.0	1.0	3.0	0.2	0.2	0.00	0.00
	All data		**0.0**	**1.2**	**0.1**	**4.5**	**14.9**	**22.0**	**0.0**	**0.0**	**0.0**	**9.0**	**-0.3**	**0.2**	**0.0**	**0.0**
BH204	26/05/2022	1012	0.3	0.4	8.3	8.5	12.3	17.6	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	06/06/2022	1011	0.3	0.3	0.3	0.6	21.0	21.5	0.0	0.0	2.0	2.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.1	0.1	0.1	1.5	20.7	20.8	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	05/07/2022	1020	0.1	0.1	0.2	0.3	20.2	20.8	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	18/07/2022	1017	0.9	1.0	0.1	0.2	17.3	20.8	0.0	0.0	1.0	2.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	1.0	1.0	10.2	10.7	10.2	16.6	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	All data		**0.1**	**1.0**	**0.1**	**10.7**	**10.2**	**21.5**	**0.0**	**0.0**	**0.0**	**2.0**	**0.1**	**0.2**	**0.0**	**0.0**
BH205	26/05/2022	1012	0.3	0.3	2.1	2.1	7.8	14.0	0.0	0.0	0.0	1.0	-8.9	-4.5	0.00	0.00
	06/06/2022	1011	0.3	0.3	0.4	0.7	19.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	20/06/2022	1017	0.1	0.1	0.8	1.9	15.9	19.8	0.0	0.0	1.0	5.0	-0.8	0.2	0.00	0.00
	04/07/2022	1016	0.0	0.0	0.2	1.5	16.2	21.0	0.0	0.0	0.0	4.0	0.0	0.1	0.00	0.00
	18/07/2022	1016	1.0	1.0	1.3	1.3	18.1	20.8	0.0	0.0	0.0	4.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.4	1.4	17.4	20.2	0.0	0.0	0.0	4.0	0.0	0.3	0.00	0.00
	All data		**0.0**	**1.0**	**0.2**	**2.1**	**7.8**	**21.3**	**0.0**	**0.0**	**0.0**	**5.0**	**-8.9**	**0.3**	**0.0**	**0.0**
BH206	26/05/2022	1012	0.3	0.3	0.1	6.6	9.1	21.6	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	06/06/2022		No data - well flooded													
	20/06/2022		No data - well flooded													
	04/07/2022	1016	0.1	0.1	7.5	8.0	8.6	14.4	0.0	0.0	9.0	31.0	0.0	0.0	0.00	0.00
	18/07/2022	1016	0.9	0.9	0.3	8.5	9.1	17.9	0.0	0.0	1.0	1.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	0.8	0.9	0.7	9.1	8.7	20.5	0.0	0.0	0.0	2.0	0.1	0.2	0.00	0.00
	All data		**0.1**	**0.9**	**0.1**	**9.1**	**8.6**	**21.6**	**0.0**	**0.0**	**0.0**	**31.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH207	26/05/2022	1012	0.3	0.3	0.1	0.1	16.4	21.5	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	06/06/2022	1011	0.4	0.4	0.1	0.1	21.7	21.7	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.2	0.2	0.1	0.9	20.6	21.4	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.1	0.2	2.1	18.9	21.1	0.0	0.0	0.0	1.0	0.0	0.2	0.00	0.00
	18/07/2022	1017	0.9	0.9	0.2	0.7	20.2	21.0	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.2	0.4	17.9	21.8	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	All data		**0.0**	**0.9**	**0.1**	**2.1**	**16.4**	**21.8**	**0.0**	**0.0**	**0.0**	**1.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH208	27/05/2022	1019	0.3	0.4	3.5	7.8	13.8	18.2	0.0	0.0	0.0	0.0	0.0	0.1	0.00	0.00
	06/06/2022	1011	0.3	0.3	3.5	7.2	14.8	18.1	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.2	1.1	1.0	7.2	14.7	20.4	0.0	0.0	0.0	2.0	0.1	0.2	0.00	0.00
	04/07/2022	1016	0.0	0.0	2.5	7.2	14.6	18.6	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	1.0	1.0	1.2	6.9	15.8	20.0	0.0	0.0	1.0	2.0	0.0	0.1	0.00	0.00
	01/08/2022	1016	1.0	1.0	0.3	6.5	16.1	21.5	0.0	0.0	0.0	1.0	0.0	0.1	0.00	0.00
	All data		**0.0**	**1.1**	**0.3**	**7.8**	**13.8**	**21.5**	**0.0**	**0.0**	**0.0**	**2.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH209	27/05/2022	1019	0.4	0.4	0.8	7.3	8.6	21.0	0.0	0.0	0.0	2.0	-8.9	-4.2	0.00	0.00
	06/06/2022	1011	0.3	0.3	1.0	7.2	8.6	20.1	0.0	0.0	1.0	1.0	-1.0	-0.1	0.00	0.00
	20/06/2022	1017	0.2	0.2	0.1	6.9	8.8	21.4	0.0	0.0	0.0	3.0	0.0	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.0	0.6	7.2	8.7	19.7	0.0	0.0	0.0	3.0	0.0	0.2	0.00	0.00
	18/07/2022	1017	0.9	1.0	0.2	7.4	9.5	21.1	0.0	0.0	1.0	3.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	2.9	7.6	10.1	15.3	0.0	0.0	0.0	3.0	-2.0	2.5	0.00	0.00
	All data		**0.0**	**1.0**	**0.1**	**7.6**	**8.6**	**21.4**	**0.0**	**0.0**	**0.0**	**3.0**	**-8.9**	**2.5**	**0.0**	**0.0**
BH210	01/08/2022	1016	0.9	0.9	0.9	1.5	12.8	16.8	0.0	0.0	0.0	4.0	0.1	0.2	0.00	0.00

Installation	Date Time	Atm. Pressure	CH4		CO2		O2		H2S		CO		Flow		PID	
		bar	min %vol	max %vol	min %vol	max %vol	min %vol	max %vol	min ppm	max ppm	min ppm	max ppm	min l/hr	max l/hr	min ppmv	max ppmv
	All data		**0.9**	**0.9**	**0.9**	**1.5**	**12.8**	**16.8**	**0.0**	**0.0**	**0.0**	**4.0**	**0.1**	**0.2**	**0.0**	**0.0**
BH211A	15/08/2022	1006	0.3	0.3	0.8	1.0	20.1	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	All data		**0.3**	**0.3**	**0.8**	**1.0**	**20.1**	**20.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.00**	**0.00**
BH213	26/05/2022	1012	0.3	0.3	0.6	0.6	19.2	20.3	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	07/06/2022	1010	0.1	0.1	0.5	0.6	19.4	19.5	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	21/06/2022	1013	0.2	0.2	0.2	1.2	19.2	20.3	0.0	0.0	0.0	1.0	0.1	0.3	0.00	0.00
	05/07/2022	1020	0.0	0.0	0.5	0.7	19.2	20.0	0.0	0.0	0.0	1.0	0.1	0.1	0.00	0.00
	18/07/2022	1013	0.9	0.9	0.7	0.9	17.8	19.2	1.0	1.0	2.0	2.0	0.1	0.3	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.7	0.8	18.1	19.6	0.0	0.0	1.0	1.0	0.1	0.2	0.00	0.00
	All data		**0.0**	**0.9**	**0.2**	**1.2**	**17.8**	**20.3**	**0.0**	**1.0**	**0.0**	**2.0**	**0.1**	**0.3**	**0.0**	**0.0**
WS201B	26/05/2022	1012	0.3	0.3	0.2	0.2	21.8	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	06/06/2022	1011	0.4	0.4	1.1	2.0	19.9	20.9	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.1	0.1	0.6	0.6	18.6	19.6	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	04/07/2022	1016	0.0	0.1	0.8	1.4	19.7	21.4	0.0	0.0	0.0	0.0	0.0	0.2	0.00	0.00
	18/07/2022	1016	1.0	1.0	1.8	1.8	18.0	18.8	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.5	2.6	17.5	19.9	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**0.2**	**2.6**	**17.5**	**21.8**	**0.0**	**0.0**	**0.0**	**1.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH304	26/05/2022	1012	0.3	0.4	4.0	6.8	11.7	16.1	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	06/06/2022	1011	0.3	0.4	0.2	5.8	14.9	21.7	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.2	0.2	5.2	7.2	10.9	12.3	0.0	0.0	1.0	1.0	0.2	0.2	0.00	0.00
	04/07/2022	1016	0.0	0.1	0.2	7.3	9.7	21.1	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	0.9	0.9	0.2	0.7	20.0	21.0	0.0	0.0	1.0	1.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	1.0	1.0	4.7	5.7	15.9	17.1	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**0.2**	**7.3**	**9.7**	**21.7**	**0.0**	**0.0**	**0.0**	**1.0**	**0.1**	**0.2**	**0.0**	**0.0**
BH305	27/05/2022	1019	0.4	0.4	0.2	4.4	18.2	21.4	0.0	0.0	0.0	17.0	0.1	0.1	0.00	0.00
	06/06/2022	1011	0.4	0.4	0.4	4.3	17.9	21.6	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.2	0.8	2.0	3.2	17.5	19.5	0.0	0.0	0.0	2.0	0.0	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.1	3.3	3.6	18.2	21.3	0.0	0.0	0.0	3.0	0.0	0.2	0.00	0.00
	18/07/2022	1017	1.0	1.0	2.0	2.0	19.5	20.5	0.0	0.0	1.0	2.0	0.0	0.1	0.00	0.00
	01/08/2022	1016	0.9	0.9	2.4	2.5	18.9	19.6	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**0.2**	**4.4**	**17.5**	**21.6**	**0.0**	**0.0**	**0.0**	**17.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH306	27/05/2022	1019	0.4	0.4	7.8	7.9	11.0	17.3	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	07/06/2022	1010	0.2	0.2	0.5	7.9	9.6	20.3	0.0	0.0	0.0	4.0	0.1	0.2	0.00	0.00
	21/06/2022	1013	0.1	0.2	7.5	7.8	10.4	12.6	0.0	1.0	2.0	4.0	0.1	0.2	0.00	0.00
	05/07/2022	1020	0.0	0.0	7.9	8.4	10.6	16.4	1.0	2.0	1.0	3.0	0.1	0.3	0.00	0.00
	18/07/2022	1013	0.8	0.8	8.1	8.3	10.3	14.9	1.0	2.0	3.0	6.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.8	9.2	11.0	17.1	0.0	2.0	3.0	5.0	0.1	0.3	0.00	0.00
	All data		**0.0**	**0.9**	**0.5**	**9.2**	**9.6**	**20.3**	**0.0**	**2.0**	**0.0**	**6.0**	**0.1**	**0.3**	**0.0**	**0.0**
BH307	26/05/2022	1012	0.3	0.4	0.2	3.3	15.0	21.3	0.0	2.0	2.0	2.0	0.2	0.2	0.00	0.00
	07/06/2022	1010	0.4	0.5	1.4	1.8	19.3	20.1	0.0	1.0	1.0	2.0	0.1	0.1	0.00	0.00
	21/06/2022	1013	0.3	0.4	0.1	2.6	18.4	21.7	0.0	1.0	2.0	2.0	0.0	0.1	0.00	0.00
	05/07/2022	1020	0.1	0.1	3.0	3.6	15.0	20.6	0.0	1.0	2.0	3.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	1.0	1.0	5.7	7.9	9.6	13.2	2.0	2.0	4.0	5.0	0.1	0.3	0.00	0.00
	01/08/2022	1016	0.9	1.0	0.3	4.6	15.1	20.6	0.0	2.0	2.0	4.0	0.1	0.2	0.00	0.00
	All data		**0.1**	**1.0**	**0.1**	**7.9**	**9.6**	**21.7**	**0.0**	**2.0**	**1.0**	**5.0**	**0.0**	**0.3**	**0.0**	**0.0**
BH311B	19/07/2022	1009	0.8	0.8	0.3	0.7	18.0	19.8	1.0	2.0	53.0	356.0	-1.0	-0.4	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.6	0.7	18.3	19.2	0.0	0.0	113.0	305.0	-0.3	-0.1	0.00	0.00
	15/08/2022	1006	0.3	0.3	1.0	1.0	17.5	21.1	1.0	2.0	2.0	276.0	-0.3	-0.1	0.00	0.00
	All data		**0.3**	**0.9**	**0.3**	**1.0**	**17.5**	**21.1**	**0.0**	**2.0**	**2.0**	**356.0**	**-1.0**	**-0.1**	**0.0**	**0.0**
BH312A	19/07/2022	1009	0.9	0.9	0.3	0.4	20.0	20.5	1.0	1.0	1.0	1.0	0.1	0.1	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.7	0.7	19.0	19.1	0.0	0.0	1.0	1.0	0.2	0.2	0.00	0.00
	15/08/2022	1006	0.3	0.3	3.4	3.4	17.3	18.9	0.0	0.0	0.0	0.1	0.1	0.1	0.00	0.00
	All data		**0.3**	**0.9**	**0.3**	**3.4**	**17.3**	**20.5**	**0.0**	**1.0**	**0.0**	**1.0**	**0.1**	**0.2**	**0.0**	**0.0**
BH313	27/05/2022	1019	0.3	0.4	2.5	2.8	15.4	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	06/06/2022	1011	0.3	0.3	2.6	2.9	14.7	16.2	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.1	0.1	2.0	2.9	15.3	17.1	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	04/07/2022	1016	0.0	0.0	2.8	3.0	15.2	20.1	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	0.9	0.9	3.1	3.3	14.9	19.5	0.0	0.0	1.0	2.0	0.2	0.2	0.00	0.00
	01/08/2022	1016	1.0	1.0	3.6	3.8	15.7	19.2	0.0	0.0	0.0	1.0	0.2	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**2.0**	**3.8**	**14.7**	**20.3**	**0.0**	**0.0**	**0.0**	**2.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH314	27/05/2022	1019	24.0	34.3	12.9	18.7	5.3	13.2	0.0	0.0	1.0	3.0	-7.5	-2.4	0.00	0.00
	06/06/2022	1011	42.0	58.9	12.3	22.6	0.1	13.0	0.0	6.0	3.0	6.0	-0.4	1.5	0.00	0.00
	20/06/2022	1017	2.1	56.7	0.7	20.6	0.5	20.3	0.0	0.0	1.0	2.0	0.0	0.1	0.00	0.00
	05/07/2022		No data													
	19/07/2022	1007	32.0	49.1	23.9	36.2	0.3	4.9	0.0	0.0	2.0	3.0	-0.2	-0.2	0.00	0.00
	01/08/2022	1016	12.1	50.1	8.8	41.9	0.2	17.4	0.0	0.0	0.0	3.0	-1.3	0.2	0.00	0.00
	All data		**2.1**	**58.9**	**0.7**	**41.9**	**0.1**	**20.3**	**0.0**	**6.0**	**0.0**	**6.0**	**-7.5**	**1.5**	**0.0**	**0.0**
BH315	26/05/2022	1012	0.3	0.4	0.1	1.8	15.0	21.4	0.0	0.0	0.0	1.0	-0.3	1.4	0.00	0.00
	06/06/2022	1011	0.5	0.6	2.0	2.9	11.5	17.3	0.0	0.0	0.0	0.0	-1.0	0.5	0.00	0.00
	20/06/2022	1017	0.0	0.1	0.5	2.9	10.1	18.6	0.0	0.0	1.0	3.0	-0.3	0.0	0.00	0.00
	05/07/2022	1020	0.1	0.1	1.0	4.0	8.5	19.8	0.0	0.0	0.0	0.0	-0.4	0.3	0.00	0.00
	18/07/2022	1017	0.9	0.9	0.2	1.6	14.5	20.1	0.0	0.0	1.0	2.0	0.0	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	2.0	3.7	9.3	16.1	0.0	0.0	0.0	1.0	-0.3	0.2	0.00	0.00
	All data		**0.0**	**0.9**	**0.1**	**4.0**	**8.5**	**21.4**	**0.0**	**0.0**	**0.0**	**3.0**	**-1.0**	**1.4**	**0.0**	**0.0**
BH320	26/05/2022	1012	0.3	0.3	0.2	2.4	18.8	21.4	0.0	0.0	0.0	227.0	0.0	0.0	0.00	0.00
	06/06/2022	1011	0.3	0.3	1.0	5.9	8.7	19.5	0.0	0.0	1.0	4.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.0	0.1	0.1	1.7	17.5	21.0	0.0	0.0	10.0	38.0	0.1	0.1	0.00	0.00

Installation	Date Time	Atm. Pressure	CH4		CO2		O2		H2S		CO		Flow		PID	
			min	max	min	max	min	max	min	max	min	max	min	max	min	max
		bar	%vol	%vol	%vol	%vol	%vol	%vol	ppm	ppm	ppm	ppm	l/hr	l/hr	ppmv	ppmv
	05/07/2022	1020	0.1	0.1	0.2	2.4	18.1	21.0	0.0	20.7	0.0	5.0	0.1	0.1	0.00	0.00
	18/07/2022	1017	0.9	0.9	3.7	7.4	7.2	14.7	0.0	0.0	2.0	2.0	0.2	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	3.1	7.3	7.9	14.8	0.0	0.0	1.0	1.0	0.1	0.1	0.00	0.00
	All data		**0.0**	**0.9**	**0.1**	**7.4**	**7.2**	**21.4**	**0.0**	**20.7**	**0.0**	**227.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH321	26/05/2022	1012	0.4	0.4	8.4	8.7	9.3	20.9	0.0	0.0.	0.0	0.0	0.1	0.2	0.00	0.00
	06/06/2022	1011	0.3	0.4	9.9	10.6	6.0	14.7	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	20/06/2022	1017	0.1	0.2	8.9	10.7	6.1	13.3	0.0	0.0	0.0	13.0	0.0	0.1	0.00	0.00
	05/07/2022	1020	0.0	0.1	9.3	9.7	12.1	19.7	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	0.9	1.0	11.3	12.8	7.7	11.2	0.0	0.0	1.0	1.0	0.0	0.2	0.00	0.00
	01/08/2022	1016	0.9	1.0	10.3	11.0	11.3	12.5	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	All data		**0.0**	**1.0**	**8.4**	**12.8**	**6.0**	**20.9**	**0.0**	**0.0**	**0.0**	**13.0**	**0.0**	**0.2**	**0.0**	**0.0**
BH323	26/05/2022	1012	0.3	0.4	6.8	7.2	14.7	21.0	0.0	0.0	0.0	0.0	0.1	0.1	0.00	0.00
	06/06/2022	1011	0.3	0.3	6.7	6.9	14.2	19.9	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	20/06/2022	1017	0.1	0.2	6.8	9.4	11.8	13.5	0.0	0.0	0.0	1.0	0.1	0.2	0.00	0.00
	05/07/2022	1020	0.1	0.1	8.1	8.4	12.9	20.1	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	18/07/2022	1017	0.9	0.9	12.1	13.6	8.6	9.8	0.0	0.0	1.0	1.0	0.1	0.3	0.00	0.00
	01/08/2022	1016	0.9	1.0	9.3	11.0	12.2	16.2	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	All data		**0.1**	**1.0**	**6.7**	**13.6**	**8.6**	**21.0**	**0.0**	**0.0**	**0.0**	**1.0**	**0.1**	**0.3**	**0.0**	**0.0**
BH325	26/05/2022	1012	0.3	0.3	0.6	0.9	18.7	20.6	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	07/06/2022	1010	0.3	0.3	0.4	0.9	19.9	20.5	0.0	0.0	0.0	0.0	0.1	0.2	0.00	0.00
	21/06/2022	1013	0.3	0.3	0.6	1.1	19.3	20.2	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	05/07/2022	1020	0.0	0.1	0.8	0.9	18.8	20.5	0.0	0.0	0.0	0.0	0.2	0.2	0.00	0.00
	18/07/2022	1017	0.9	1.0	0.5	0.5	17.5	19.9	0.0	1.0	1.0	3.0	0.1	0.2	0.00	0.00
	01/08/2022	1016	0.9	0.9	0.8	0.8	17.0	18.8	0.0	1.0	1.0	2.0	0.1	0.2	0.00	0.00
	All data		**0.0**	**1.0**	**0.4**	**1.1**	**17.0**	**20.6**	**0.0**	**1.0**	**0.0**	**3.0**	**0.1**	**0.2**	**0.0**	**0.0**

Element Materials Technology
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Zone 3
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BAM Ritchies
Unit 5
Taurus Park
Gemini Business Park
Warrington
WA5 7ZT

Attention :	Andy Bird
Date :	27th July, 2022
Your reference :	326R
Our reference :	Test Report 22/11805 Batch 1
Location :	-
Date samples received :	19th July, 2022
Status :	Final Report
Issue :	1

One sample was received for analysis on 19th July, 2022 and was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Paul Boden BSc
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: BAM Ritchies
Reference: 326R
Location: -
Contact: Andy Bird
EMT Job No: 22/11805

Report : Gas

EMT Sample No.	1												
Sample ID	BH314												
Depth													
COC No / misc													
Containers	GC												
Sample Date	19/07/2022 11:00												
Sample Type	Gas												
Batch Number	1												
Date of Receipt	19/07/2022												

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
Carbon Dioxide	24.67										<0.05	%	TM69/PM0
Carbon Monoxide	<0.05										<0.05	%	TM69/PM0
Hydrogen	<0.5										<0.5	%	TM69/PM0
Methane	37.85										<0.05	%	TM69/PM0
Methane	>>374968										<5	ppmV	TM69/PM0
Nitrogen	33.9										<0.5	%	TM69/PM0
Oxygen	3.5										<0.5	%	TM69/PM0
Hydrogen Sulphide	<1										<1	ppm	TM119/PM0

Element Materials Technology

Client Name: BAM Ritchies
Reference: 326R
Location: -
Contact: Andy Bird

Sample Date: 19 Jul 2022
Date of Receipt: 19 Jul 2022
Date Analysed: 25 Jul 2022

Sample ID: BH314
Depth:
EMT Job No: 22/11805
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: SQT 482 0.45
Sample Train Serial number: ST-404

Q* - Qualifiers

B Indicates analyte found in associated method blank
++ Indicates value exceeds calibration range

Key

MDL Method Detection Limit
RL Reporting Limit
ISO 17025 (UKAS) accredited

Cas No	Molecular Weight		Compound	Q*	RESULT ppbv	RESULT ug/m^3	RL ppbv	MDL ppbv	RL ug/m^3	MDL ug/m^3
75-45-6	86.77		Chlorodifluoromethane (HCFC-22)		<2	<7	<2	<2	<7	<7
75-71-8	120.91		Dichlorodifluoromethane (F-12)		<2.5	<12.4	<2.5	<2.5	<12.4	<12.4
74-87-3	50.49		Chloromethane		25.3	52.2	<1.5	<1.5	<3.1	<3.1
76-14-2	170.92		1,2-Dichlorotetrafluoroethane (F-114)		<1.5	<10.5	<1.5	<1.5	<10.5	<10.5
115-11-7	56.12		Isobutene		176.2	404.4	<1.5	<1.5	<3.4	<3.4
106-99-0	54.09		1,3-Butadiene		<1.5	<3.3	<1.5	<1.5	<3.3	<3.3
74-83-9	94.95	#	Bromomethane		<1.5	<5.8	<1.5	<1.5	<5.8	<5.8
75-00-3	64.52	#	Chloroethane		<1.5	<4	<1.5	<1.5	<4	<4
64-17-5	46.07		Ethanol		<100	<188.4	<100	<100	<188.4	<188.4
75-05-8	41.05		Acetonitrile		<1.5	<2.5	<1.5	<1.5	<2.5	<2.5
107-02-8	56.06		Acrolein		<2.5	<5.7	<2.5	<2.5	<5.7	<5.7
	58.08		Acetone + Propanal		23	55	<6	<6	<14	<14
75-69-4	137.36	#	Trichlorofluoromethane (F-11)		<1.5	<8.4	<1.5	<1.5	<8.4	<8.4
67-63-0	60.09		2-Propanol		9	22	<6	<6	<15	<15
109-66-0	72.15		Pentane		10	29.5	<1.5	<1.5	<4.4	<4.4
78-79-5	68.12		Isoprene		<2	<6	<2	<2	<6	<6
74-88-4	141.94		Methyl Iodide		<1.5	<8.7	<1.5	<1.5	<8.7	<8.7
75-35-4	96.95	#	1,1-Dichloroethene (1,1 DCE)		<1.5	<5.9	<1.5	<1.5	<5.9	<5.9
75-09-2	84.94	#	Methylene Chloride		<14.4	<50	<14.4	<14.4	<50	<50
76-13-1	187.37	#	Trichlorotrifluoroethane		<1.5	<11.5	<1.5	<1.5	<11.5	<11.5
75-15-0	76.14		Carbon Disulfide		3.3	10.3	<1.5	<1.5	<4.7	<4.7
71-23-8	60.09		1-Propanol		<1.5	<3.7	<1.5	<1.5	<3.7	<3.7
78-85-3	70.09		Methylacrolein		<1.5	<4.3	<1.5	<1.5	<4.3	<4.3
75-34-3	98.97	#	1,1-Dichloroethane		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
287-92-3	70.14		Cyclopentane		<1.5	<4.3	<1.5	<1.5	<4.3	<4.3
78-94-4	70.09		Methyl Vinyl Ketone		<1.6	<4.6	<1.6	<1.6	<4.6	<4.6
1634-04-4	88.15		Methyl tertiary butyl ether		<1.5	<5.4	<1.5	<1.5	<5.4	<5.4
108-05-4	86.09		Vinyl Acetate		<1.5	<5.3	<1.5	<1.5	<5.3	<5.3
123-72-8	72.11		Butanal		<2	<6	<2	<2	<6	<6
78-93-3	72.1		2-Butanone (MEK)		7	21	<2	<2	<6	<6
156-59-2	96.94	#	cis-1,2-Dichloroethene		<1	<4	<1	<1	<4	<4
110-54-3	86.17		Hexane		4.1	14.4	<1.5	<1.5	<5.3	<5.3
67-66-3	119.39	#	Chloroform		<1.5	<7.3	<1.5	<1.5	<7.3	<7.3
107-06-2	98.96	#	1,2-Dichloroethane		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
71-55-6	133.42	#	1,1,1-Trichloroethane		<1.5	<8.2	<1.5	<1.5	<8.2	<8.2
71-36-3	74.12		1-Butanol		4	12	<3	<3	<9	<9
71-43-2	78.11	#	Benzene		<1.5	<4.8	<1.5	<1.5	<4.8	<4.8
56-23-5	153.84	#	Carbon Tetrachloride		<1.5	<9.4	<1.5	<1.5	<9.4	<9.4
110-82-7	84.16		Cyclohexane		<2	<7	<2	<2	<7	<7

Element Materials Technology

Client Name: BAM Ritchies
Reference: 326R
Location: -
Contact: Andy Bird

Sample Date: 19 Jul 2022
Date of Receipt: 19 Jul 2022
Date Analysed: 25 Jul 2022

Sample ID: BH314
Depth:
EMT Job No: 22/11805
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: SQT 482 0.45
Sample Train Serial number: ST-404

Q* - Qualifiers

B Indicates analyte found in associated method blank
++ Indicates value exceeds calibration range

Key

MDL Method Detection Limit
RL Reporting Limit
ISO 17025 (UKAS) accredited

Cas No	Molecular Weight		Compound	Q*	RESULT	RESULT	RL	MDL	RL	MDL
					ppbv	ug/m^3	ppbv	ppbv	ug/m^3	ug/m^3
107-87-9	86.13		2-Pentanone		**<1.5**	**<5.3**	<1.5	<1.5	<5.3	<5.3
110-62-3	86.13		Pentanal		**<1.5**	**<5.3**	<1.5	<1.5	<5.3	<5.3
96-22-0	86.13		3-Pentanone		**<1.5**	**<5.3**	<1.5	<1.5	<5.3	<5.3
78-87-5	112.99	#	1,2-Dichloropropane		**<1.5**	**<6.9**	<1.5	<1.5	<6.9	<6.9
75-27-4	163.83		Bromodichloromethane		**<1.5**	**<10.1**	<1.5	<1.5	<10.1	<10.1
123-91-1	88.11		1,4-Dioxane		**<2**	**<7**	<2	<2	<7	<7
79-01-6	131.4	#	Trichloroethene (TCE)		**<1.5**	**<8.1**	<1.5	<1.5	<8.1	<8.1
10061-01-5	110.97		cis-1,3-Dichloropropene		**<1.5**	**<6.8**	<1.5	<1.5	<6.8	<6.8
108-10-1	100.16		4-Methyl-2-pentanone		**<1.5**	**<6.1**	<1.5	<1.5	<6.1	<6.1
10061-02-6	110.97		trans-1,3-Dichloropropene		**<1.5**	**<6.8**	<1.5	<1.5	<6.8	<6.8
79-00-5	133.4	#	1,1,2-Trichloroethane		**<1.5**	**<8.2**	<1.5	<1.5	<8.2	<8.2
108-88-3	92.13	#	Toluene		**17.5**	**65.9**	<1.5	<1.5	<5.7	<5.7
589-38-8	100.16		3-Hexanone		**<1.5**	**<6.1**	<1.5	<1.5	<6.1	<6.1
591-78-6	100.16		2-Hexanone		**<1.5**	**<6.1**	<1.5	<1.5	<6.1	<6.1
66-25-1	100.16		Hexanal		**<1.5**	**<6.1**	<1.5	<1.5	<6.1	<6.1
106-93-4	187.86	#	1,2-Dibromoethane		**<1.5**	**<11.5**	<1.5	<1.5	<11.5	<11.5
127-18-4	165.85	#	Tetrachloroethene (PCE)		**<1.5**	**<10.2**	<1.5	<1.5	<10.2	<10.2
108-90-7	112.56	#	Chlorobenzene		**<1.5**	**<6.9**	<1.5	<1.5	<6.9	<6.9
100-41-4	106.16	#	Ethylbenzene		**<1.5**	**<6.5**	<1.5	<1.5	<6.5	<6.5
179601-23-1	106.17	#	m/p-Xylene		**3.5**	**15.2**	<1.5	<1.5	<6.5	<6.5
75-25-2	252.77		Bromoform		**<1.5**	**<15.5**	<1.5	<1.5	<15.5	<15.5
100-42-5	104.14	#	Styrene		**2**	**8.5**	<1.5	<1.5	<6.4	<6.4
79-34-5	167.85	#	1,1,2,2-Tetrachloroethane		**<1.5**	**<10.3**	<1.5	<1.5	<10.3	<10.3
95-47-6	106.17	#	o-Xylene		**<1.5**	**<6.5**	<1.5	<1.5	<6.5	<6.5
108-67-8	120.2	#	1,3,5-Trimethylbenzene		**<1.5**	**<7.4**	<1.5	<1.5	<7.4	<7.4
95-63-6	120.19	#	1,2,4-Trimethylbenzene		**<1.5**	**<7.4**	<1.5	<1.5	<7.4	<7.4
541-73-1	147.01	#	1,3-Dichlorobenzene		**<1.5**	**<9**	<1.5	<1.5	<9	<9
100-44-7	126.58		Benzyl Chloride		**<1.5**	**<7.8**	<1.5	<1.5	<7.8	<7.8
106-46-7	147.01	#	1,4-Dichlorobenzene		**<1.5**	**<9**	<1.5	<1.5	<9	<9
526-73-8	120.2		1,2,3-Trimethylbenzene		**1.8**	**8.8**	<1.5	<1.5	<7.4	<7.4
95-50-1	147	#	1,2-Dichlorobenzene		**<1.5**	**<9**	<1.5	<1.5	<9	<9
120-82-1	181.46		1,2,4-Trichlorobenzene		**<1.5**	**<11.1**	<1.5	<1.5	<11.1	<11.1
91-20-3	128.17		Naphthalene		**<0.32**	**<1.7**	<0.32	<0.32	<1.7	<1.7
			Sum of VOC TO15 compounds		**286.7**	**719.2**				
460-00-4			4-Bromofluorobenzene Surrogate Recovery		**98%**		0%	0%		
75-01-4	62.5	#	Vinyl Chloride		**<1.5**	**<3.8**	<1.5	<1.5	<3.8	<3.8
	81		Aliphatic >C4-C6		**177**	**586**	<10	<10	<33	<33
	100		Aliphatic >C6-C8		**<10**	**<41**	<10	<10	<41	<41
	130		Aliphatic >C8-C10		**<10**	**<53**	<10	<10	<53	<53

Element Materials Technology

Client Name: BAM Ritchies
Reference: 326R
Location: -
Contact: Andy Bird

Sample Date: 19 Jul 2022
Date of Receipt: 19 Jul 2022
Date Analysed: 25 Jul 2022

Sample ID: BH314
Depth:
EMT Job No: 22/11805
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: SQT 482 0.45
Sample Train Serial number: ST-404

Q* - Qualifiers

B Indicates analyte found in associated method blank
++ Indicates value exceeds calibration range

Key

MDL Method Detection Limit
RL Reporting Limit
ISO 17025 (UKAS) accredited

Cas No	Molecular Weight	Compound	Q*	RESULT ppbv	RESULT ug/m^3	RL ppbv	MDL ppbv	RL ug/m^3	MDL ug/m^3
	160	Aliphatic >C10-C12		**<10**	**<65**	<10	<10	<65	<65
	78.11	Aromatic >C5-EC7 (Benzene)		**<1.5**	**<4.8**	<1.5	<1.5	<4.8	<4.8
	92.13	Aromatic >EC7-EC8 (Toluene)		**17.5**	**65.9**	<1.5	<1.5	<5.7	<5.7
	120	Aromatic >EC8-EC10		**17**	**83**	<10	<10	<49	<49
	130	Aromatic >EC10-EC12		**<10**	**<53**	<10	<10	<53	<53

Client Name: BAM Ritchies
Reference: 326R
Location: -
Contact: Andy Bird

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 22/11805						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

Please include all sections of this report if it is reproduced

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/11805

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 22/11805

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.				
TM68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.	Yes			
TM69	Analysis of gas samples by direct injection onto a Gas Chromatography (GC) column and analysed using a Flame Ionisation Detector (FID) or a Thermocouple Detector (TD)	PM0	No preparation is required.				
TM119	Determination of hydrogen sulphide using Gerhardt Steam distillation followed by Impact Pro Multi Gas Detector.	PM0	No preparation is required.				

Appendix F - Cheetham Hill culvert

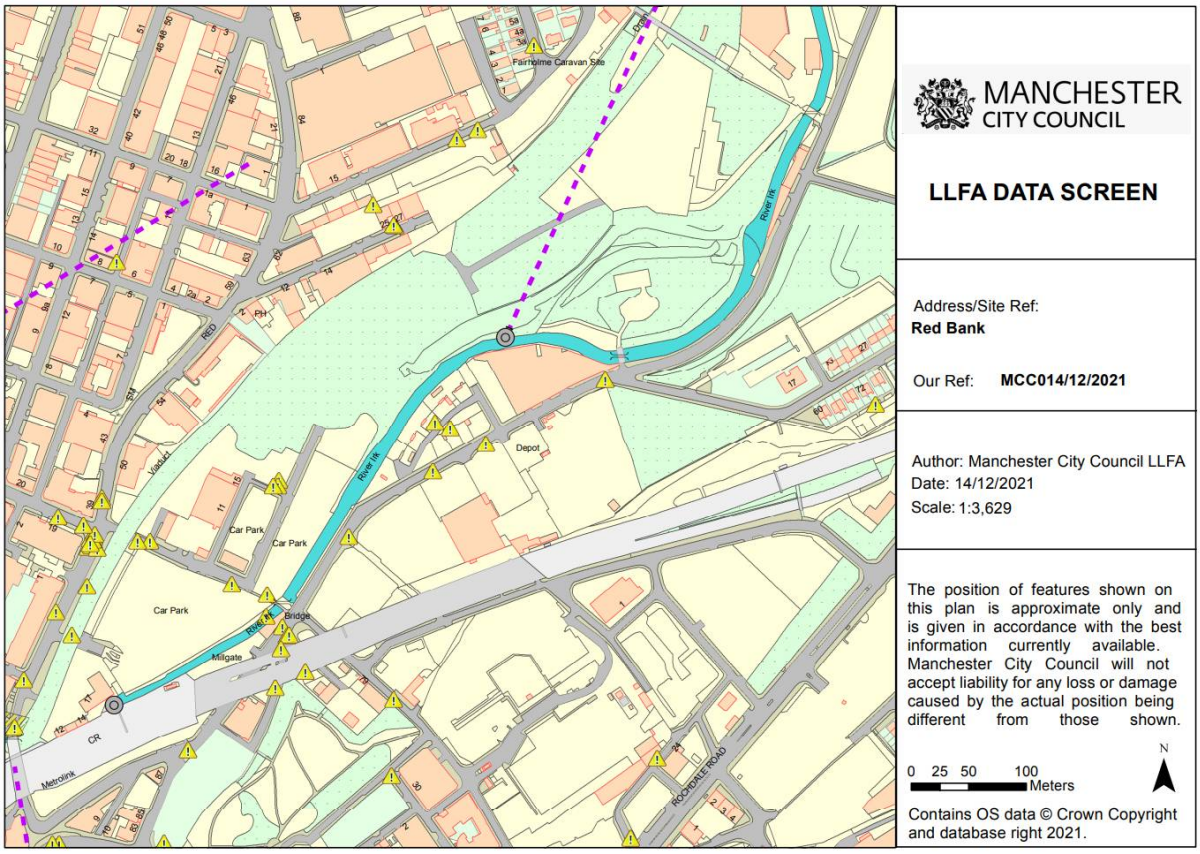
On site investigation works to attempt to locate the believed route of Cheetham hill culvert

Following the receipt of the below information of the possible route of the Cheetham Hill Culvert across the development site investigation works where undertaken to locate and plot the position.

As can be seen on the enclosed drawing and photographs an exiting drainage system was identified across the site which eventually connected to the UU combined drainage system in Hargreaves Street.

Historical Information

The below drawing was initially provided in an aid to the location of the Culvert. Surveys of existing drainage system to locate any connections to the culvert were undertaken without success.



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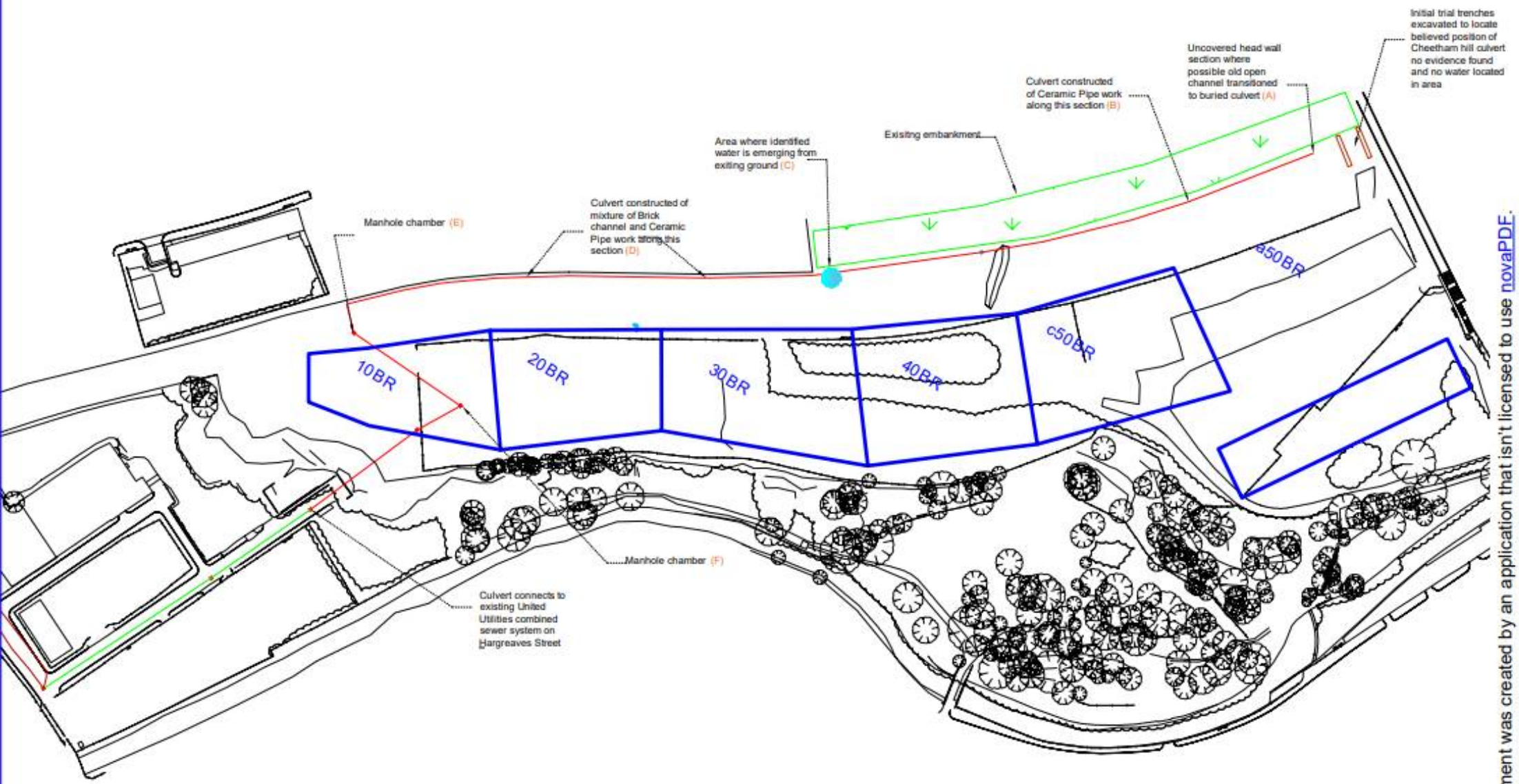
Identified drainage system across development area



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Photographs of investigation works undertaken

A. Headwall uncovered

B. Clay pipe work of culverted section of drain

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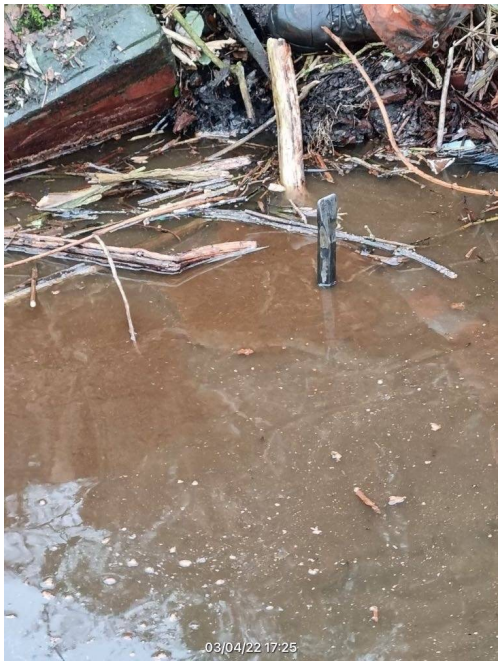
C. Area where water emerges from existing ground



D. Identified areas of culvert/drain construction

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E. Manhole chamber

F. Manhole Chamber

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Located alignment of Culvert

Following investigations and research on previous works undertaken in the wider area it has been discovered that the Cheetham hill culvert does not enter the Victoria North site area.

It was identified that the culvert now runs through the Packaging products site and outfalls into the river irk as shown below upstream of the Victoria North site area.

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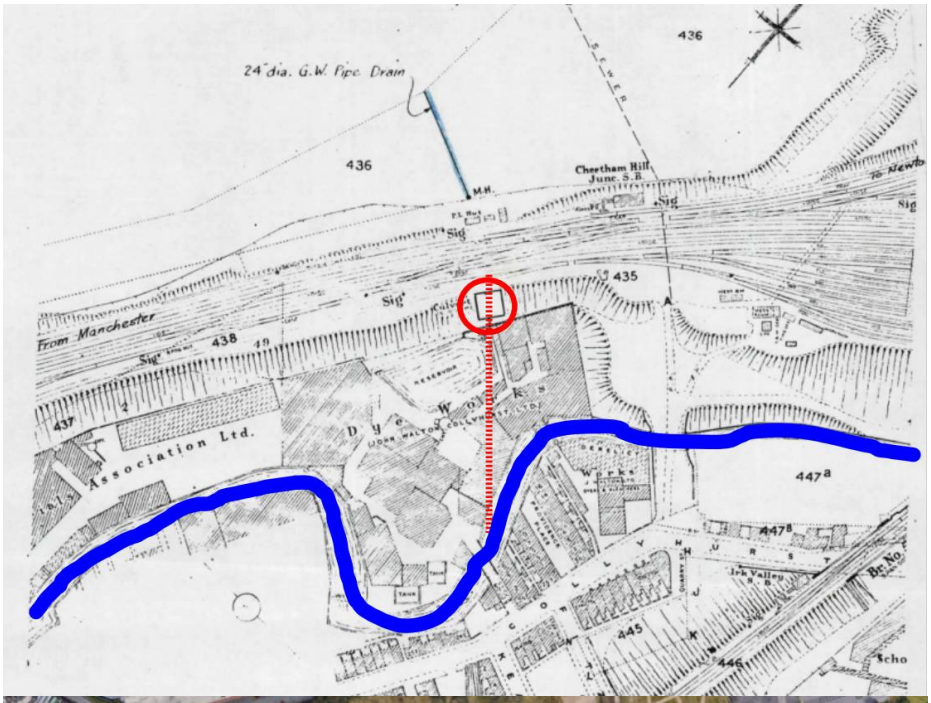

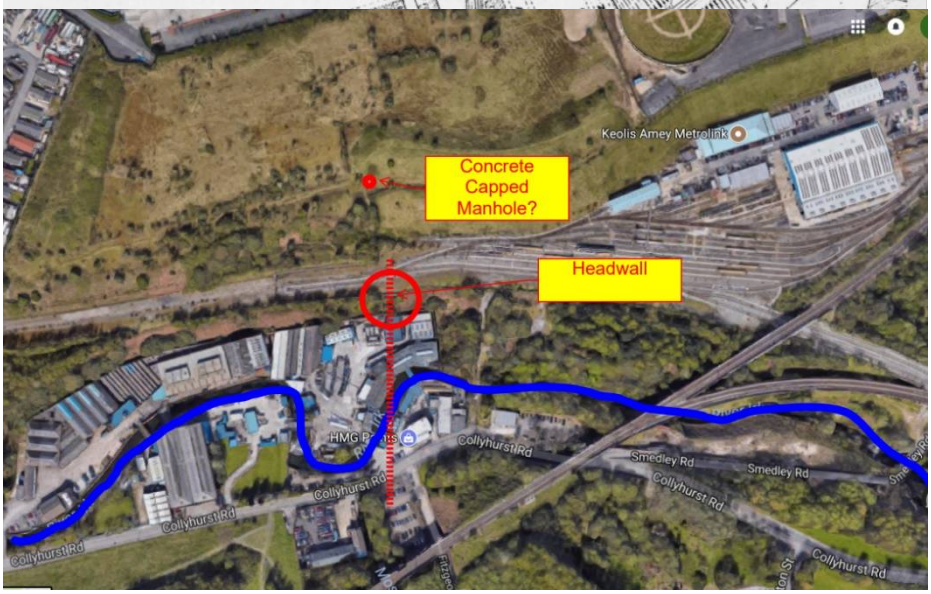

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Head wall (original photos taken)

Outfall present day overgrown

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Photos taken 2022 Showing route of culvert to river outfall

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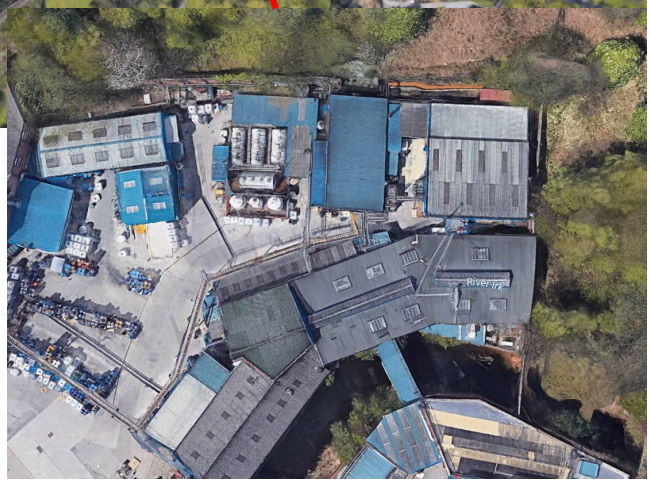
Google Earth screen shots showing location of Cheetham hill Culvert entering River Irk



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Angel Street (Collingham St.)
Ammoniacal nitrogen as N (w): 22.1 mg/l
Broken Pipe
Ammoniacal nitrogen as N (w): 4.73 mg/l
Orange Lagoon
Ammoniacal nitrogen as N (w): 28.3 mg/l
SWS01
Ammoniacal nitrogen as N (w): 0.28 mg/l
SWS02
Ammoniacal nitrogen as N (w): 0.11 mg/l
SWS03
Ammoniacal nitrogen as N (w): 0.09 mg/l

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/03772
Issue Number: 1 **Date:** 05 May, 2022

Client:
BAM Ritchies Warrington
Unit 5
Taurus Park
Europa Boulevard
Warrington
UK
WA5 7ZT

Project Manager: Andy Bird
Project Name: Victoria North HIF
Project Ref: 326R
Order No: RIT 262 915 759
Date Samples Received: 14/04/22
Date Instructions Received: 20/04/22
Date Analysis Completed: 05/05/22

Approved by:

Sophie France
Client Service Manager

UKAS TESTING
1247

Envirolab Job Number: 22/03772

Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
pH (w)$_{A}^{\#}$	7.58	7.66	7.79	7.15	6.75			pH	0.01	A-T-031w
COD (settled)$_{A}^{\#}$	16	17	27	21	40			mg/l	5	A-T-034w
BOD (settled, 5 day)$_{A}$	2	<1	1	15	14			mg/l	1	A-T-048
Hardness Total$_{A}^{\#}$	185	156	147	447	683			mg/l CaCO3	2	A-T-049w
Total Suspended Solids (w)$_{A}^{\#}$	<10	<10	<10	14	71			mg/l	10	A-T-036w
Ammoniacal nitrogen as N (w)$_{A}^{\#}$	0.28	0.11	0.09	4.73	28.3			mg/l	0.02	A-T-033w
Chloride (w)$_{A}^{\#}$	84	85	84	36	34			mg/l	1	A-T-026w
Cyanide (free) (w)$_{A}^{\#}$	<0.005	<0.005	<0.005	0.005	<0.005			mg/l	0.005	A-T-042wFCN
Cyanide (total) (w)$_{A}^{\#}$	<0.005	<0.005	<0.005	0.008	0.008			mg/l	0.005	A-T-042wTCN
Cyanide (complex)$_{A}^{\#}$	<0.005	<0.005	<0.005	<0.005	0.008			mg/l	0.005	A-T-042wCCN
Thiocyanate (w)$_{A}$	0.3	0.3	0.2	0.1	0.1			mg/l	0.1	A-T-041w
Phenols - Total by HPLC (w)$_{A}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	A-T-050w
DOC (w)$_{A}^{\#}$	3.6	3.3	3.3	5.5	5.6			mg/l	2	A-T-032w
Antimony (dissolved)$_{A}$	2	2	2	1	<5			µg/l	1	A-T-025w
Arsenic (dissolved)$_{A}^{\#}$	3	2	3	2	9			µg/l	1	A-T-025w
Beryllium (dissolved)$_{A}^{\#}$	<1	<1	<1	<1	<5			µg/l	1	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	<0.2	<0.2	<0.2	<0.2	<1.0			µg/l	0.2	A-T-025w
Calcium (dissolved)$_{A}^{\#}$	61	49	47	135	222			mg/l	1	A-T-049w
Copper (dissolved)$_{A}^{\#}$	9	4	7	8	26			µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	21	22	21	1	<5			µg/l	1	A-T-025w
Chromium (hexavalent) (w)$_{A}^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	A-T-040w
Iron (dissolved)$_{A}^{\#}$	681	355	549	3160	76800			µg/l	10	A-T-025w
Lead (dissolved)$_{A}^{\#}$	6	<1	3	52	21			µg/l	1	A-T-025w
Manganese (dissolved)$_{A}^{\#}$	74	51	56	746	693			µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	<0.1	<0.1	<0.1	<0.1	<0.5			µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	3	2	3	7	<5			µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	<1	<1	<1	<1	<5			µg/l	1	A-T-025w
Vanadium (dissolved)$_{A}^{\#}$	<1	<1	<1	2	6			µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	44	28	34	50	59			µg/l	1	A-T-025w

Envirolab Job Number: 22/03772

Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Acid Herbicides Suite 3+ (w)										
2,3,6-TBA (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
2,4-D (w)$_A$	0.06	0.05	0.05	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
2,4-DB (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
2,4,5-T (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
2,4,5-TP; (Fenoprop); (Silvex) (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
4-CPA (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Benazolin (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Bentazone (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Bromacil (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Bromoxynil (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Clopyralid (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Dicamba (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
2,4-DP; (Dichlorprop)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Diclofop (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Flamprop (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Flamprop-isopropyl (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Fluroxypyr (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Ioxynil (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
MCPA (w)$_A$	0.04	0.04	0.04	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
MCPB (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
MCPP; (Mecoprop) (w)$_A$	0.12	0.11	0.10	0.02	0.02			µg/l	0.02	Subcon RPS MH
PCP; (Pentachlorophenol) (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Picloram (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Triclopyr (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH

Envirolab Job Number: 22/03772 **Client Project Name: Victoria North HIF**

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Carb+Urea(w)HerbsSuite1										
Carbetamide (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Chlorbufam (w)$_A$	<1	<1	<1	<1	<1			µg/l	0.1	Subcon RPS MH
Chloroxuron (w) $_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Chlorpropham (w)$_A$	<1	<1	<1	<1	<1			µg/l	0.1	Subcon RPS MH
Chlortoluron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Diflubenzuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Dimefuron (w) $_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Diuron (w)$_A$	<0.05	0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Ethiofencarb (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Isoproturon (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Linuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Methabenzthiazuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Metoxuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Monolinuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Monuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Pencycuron (w)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			µg/l	0.05	Subcon RPS MH
Phenmedipham (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Pirimicarb (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Propham (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
OCP+OPP Combined Pest Suite (incl. Atrazine+Simazine) (w)										
Dichlobenil (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Tecnazene (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Trifluralin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
alpha-Hexachlorocyclohexane (HCH) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Hexachlorobenzene (HCB) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Simazine (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Atrazine (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
beta-Hexachlorocyclohexane (HCH) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Quintozene (PCNB) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Triallate (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
delta-Hexachlorocyclohexane (HCH) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Chlorothalonil (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Heptachlor (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Aldrin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Triadimefon (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Telodrin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Isodrin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Pendimethalin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Heptachlor epoxide (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
trans-Chlordane (Gamma) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
o,p-DDE (2,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endosulphan I (Alpha) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
cis-Chlordane (Alpha) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
p,p-DDE (4,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Dieldrin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
o,p-DDD (2,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endrin (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endosulphan II (Beta) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
p,p-DDD (4,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
o,p-DDT (2,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endrin Aldehyde (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endosulphan Sulphate (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
p,p-DDT (4,4) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
o,p-Methoxychlor (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Endrin Ketone (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
p,p-Methoxychlor (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Permethrin I (cis) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Permethrin II (trans) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Dichlorvos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Mevinphos (w)$_A$	<1.0	<1.0	<1.0	<1.0	<1.0			µg/l	0.5	A-T-056w

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Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Demeton-S (w)$_A$	<1.0	<1.0	<1.0	<1.0	<1.0			µg/l	0.5	A-T-056w
Phorate (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Dimethoate (w)$_A$	<1.0	<1.0	<1.0	<1.0	<1.0			µg/l	0.5	A-T-056w
Demeton-O (w)$_A$	<1.0	<1.0	<1.0	<1.0	<1.0			µg/l	0.5	A-T-056w
Propetamphos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Diazinon (Dimpylate) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Disulfoton (w)$_A$	<1.0	<1.0	<1.0	<1.0	<1.0			µg/l	0.5	A-T-056w
Chlorpyrifos-methyl (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Methyl Parathion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Pirimiphos-methyl (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Fenitrothion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Malathion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Chlorpyrifos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Fenthion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Parathion (Ethyl Parathion) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Trichloronate (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Chlorfenvinphos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Fensulphothion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Prothiofos (Tokuthion) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Ethion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Triazophos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Carbophenothion (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Phosalone (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Azinphos-methyl (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Azinphos-ethyl (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
Coumaphos (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w
gamma-Hexachlorocyclohexane (HCH / Lindane) (w)$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.1	A-T-056w

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Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
ONP (Triazine Herbicides x11) (w)										
Ametryne (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Atraton (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Atrazine (w)$_A$	<0.02	<0.02	<0.02	0.05	<0.02			µg/l	0.02	Subcon RPS MH
Cyanazine (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Prometon (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Prometryn (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Propazine (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Simazine (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Simetryn (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Terbuthylazine (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH
Terbutryn (w)$_A$	<0.02	<0.02	<0.02	<0.02	<0.02			µg/l	0.02	Subcon RPS MH

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Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	0.01	0.01	0.02	<0.01	0.13			µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	<0.01	<0.01	<0.01	0.07	0.01			µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	0.01	<0.01	0.03	<0.01	0.03			µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	0.05			µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	0.01	0.02	0.07	<0.01	0.01			µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	<0.01	<0.01	0.02	<0.01	0.05			µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	0.01	0.01	0.03	<0.01	0.02			µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	0.04	0.04	0.17	0.07	0.30			µg/l	0.01	A-T-019w
Pyrethroids (x6) (w)										
Cyfluthrin (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Cyhalothrin-lambda (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Cypermethrin (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Deltamethrin (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Fenvalerate (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH
Permethrin (w)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	Subcon RPS MH

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Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Speciated PCB-WHO12 (w)										
PCB BZ 81 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 105 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 114 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 118 (w)$_A$$^{\#}$	<0.002	<0.002	<0.002	<0.002	<0.002			µg/l	0.002	A-T-004w
PCB BZ 123 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 126 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 156 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 157 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 167 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 169 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 189 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
PCB BZ 77 (w)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			µg/l	0.001	A-T-004w
Total Speciated PCB-WHO12 (w)$_A$	<0.002	<0.002	<0.002	<0.002	<0.002			µg/l	0.001	A-T-004w

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Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
SVOC (excluding PAH-16) (w)										
2,4,5-Trichlorophenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4,6-Trichlorophenol (w)$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dichlorophenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dimethylphenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dinitrotoluene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,6-Dinitrotoluene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Chloronaphthalene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Chlorophenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Methylnaphthalene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Methylphenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Nitrophenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Bromophenyl phenyl ether$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Chloro-3-methylphenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
3+4-Methylphenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Nitrophenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroethyl)ether$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate$_A$	<10	<10	<10	<10	<10			µg/l	10	A-T-052w
Butylbenzyl phthalate$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Carbazole$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Dibenzofuran$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
n-Dibutylphthalate$_A$	<4	<1	<1	<1	<1			µg/l	1	A-T-052w
n-Dioctylphthalate$_A$	<10	<10	<10	<10	<10			µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Diethyl phthalate$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Dimethyl phthalate$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Hexachlorobenzene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Pentachlorophenol (SVOC)$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Phenol$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Hexachloroethane$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Nitrobenzene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w

Envirolab Job Number: 22/03772

Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Isophorone$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Hexachlorocyclopentadiene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Perylene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-052w

Envirolab Job Number: 22/03772

Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
VOC (w)										
Dichlorodifluoromethane$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloromethane$_A$	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Vinyl Chloride$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromomethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloroethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Trichlorofluoromethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,2-Dichloroethene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Dichloromethane$_A$	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Carbon Disulphide$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
cis 1,2-Dichloroethene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromochloromethane$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Chloroform$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
2,2-Dichloropropane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloroethane$_A^{\#}$	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,1,1-Trichloroethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloropropene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Benzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Carbon Tetrachloride$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Dibromomethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloropropane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromodichloromethane$_A^{\#}$	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Trichloroethene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
cis 1,3-Dichloropropene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,3-Dichloropropene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2-Trichloroethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Toluene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3-Dichloropropane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Dibromochloromethane$_A^{\#}$	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2-Dibromoethane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Tetrachloroethene$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w

Envirolab Job Number: 22/03772 **Client Project Name: Victoria North HIF**

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
1,1,1,2-Tetrachloroethane$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chlorobenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Ethylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
m & p Xylene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromoform$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Styrene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
o-Xylene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,3-Trichloropropane$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Isopropylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromobenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
2-Chlorotoluene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-propylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Chlorotoluene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,4-Trimethylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Isopropyltoluene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3,5-Trimethylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichlorobenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,4-Dichlorobenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
sec-Butylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
tert-Butylbenzene$_A^{\#}$	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,3-Dichlorobenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-butylbenzene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane$_A^{\#}$	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,2,4-Trichlorobenzene$_A^{\#}$	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2,3-Trichlorobenzene$_A^{\#}$	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
Hexachlorobutadiene$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-006w

Envirolab Job Number: 22/03772

Client Project Name: Victoria North HIF

Client Project Ref: 326R

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5			Units	Limit of Detection	Method ref
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01					
Client Sample ID	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON					
Depth to Top										
Depth To Bottom										
Date Sampled	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22					
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
TPH UKCWG (w) with Clean Up *C1										
Ali >C5-C6 (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Ali >C6-C8 (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Ali >C8-C10 (w)$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C10-C12 (w)$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C12-C16 (w)$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C16-C21 (w)$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C21-C35 (w)$_A^{\#}$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C35-C44 (w)$_A$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Total Aliphatics (w)$_A$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Aro >C5-C7 (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Aro >C7-C8 (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Aro >C8-C10 (w)$_A$	<5	<5	<5	<5	6			µg/l	5	A-T-055w
Aro >C10-C12 (w)$_A^{\#}$	<5	<5	<5	<5	7			µg/l	5	A-T-055w
Aro >C12-C16 (w)$_A^{\#}$	<5	<5	<5	<5	8			µg/l	5	A-T-055w
Aro >C16-C21 (w)$_A^{\#}$	8	8	10	15	13			µg/l	5	A-T-055w
Aro >C21-C35 (w)$_A$	<10	<10	<10	<10	<10			µg/l	10	A-T-055w
Aro >C35-C44 (w)$_A$	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Total Aromatics (w)$_A$	<10	<10	10	15	34			µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C44) (w)$_A$	<10	<10	10	15	34			µg/l	10	A-T-055w
BTEX - Benzene (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - Toluene (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - m & p Xylene (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - o Xylene (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
MTBE (w)$_A^{\#}$	<1	<1	<1	<1	<1			µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve
EPH CWG results have humics mathematically subtracted through instrument calculation
TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: BAM Ritchies Warrington, Unit 5, Taurus Park, Europa Boulevard, Warrington, UK, WA5 7ZT

Project: Victoria North HIF

Clients Project No: 326R

Project No: 22/03772

Date Received: 20/04/2022 (am)

Cool Box Temperatures (°C): 10.7 - 11.2

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01
Client Sample ID/Depth	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON
Date Sampled	13/04/22	13/04/22	13/04/22	13/04/22	13/04/22
Deviation Code					
F	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01
Client Sample ID/Depth	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON
Date Sampled	13/04/22	13/04/22	13/04/22	13/04/22	13/04/22
Acid Herbicides Suite 3+ (w)	✓	✓	✓	✓	✓
Pyrethroids (x6) (w)	✓	✓	✓	✓	✓
BOD (settled, 5 day)	✓	✓	✓	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	22/03772/1	22/03772/2	22/03772/3	22/03772/4	22/03772/5
Client Sample No	326R.SWS01.EW04	326R.SWS02.EW04	326R.SWS03.EW04	326R.LP01.EW01	326R.LAGOON.EW01
Client Sample ID/Depth	SWS01	SWS02	SWS03	LEAKING PIPE01	ORANGE LAGOON
Date Sampled	13/04/22	13/04/22	13/04/22	13/04/22	13/04/22
A-T-004w	25/04/2022	25/04/2022	25/04/2022	25/04/2022	25/04/2022
A-T-006w	25/04/2022	25/04/2022	25/04/2022	25/04/2022	25/04/2022
A-T-019w	25/04/2022	25/04/2022	25/04/2022	25/04/2022	25/04/2022
A-T-022w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-025w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-026w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-031w	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022
A-T-032w	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-033w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-034w	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-036w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-040w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-041w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-042wCCN	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-042wFCN	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-042wTCN	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-048	25/04/2022	25/04/2022	25/04/2022	25/04/2022	25/04/2022
A-T-049w	25/04/2022	25/04/2022	25/04/2022	25/04/2022	25/04/2022
A-T-050w	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-052w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-055w	26/04/2022	26/04/2022	26/04/2022	26/04/2022	26/04/2022
A-T-056w	27/04/2022	27/04/2022	27/04/2022	27/04/2022	27/04/2022

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

GIR – Drawing list

Drawing 01 – Arup Ground Investigation Positions (2019 and 2021)

Drawing 02 – Monitoring Installations

Drawing 03 – Visual and Olfactory Evidence of Contamination

Drawing 04 – Historic Features and Potential Development Constraints

Drawing 05A – Red Bank Plateau - Geological Long Section

Drawing 05B – Red Bank Plateau - Geological cross section (Plateau slope area)

Drawing 05C – Red Bank Plateau - Geological cross section (Plateau slope area)

Drawing 06 – Red Bank Terrace - Geological Cross Section

Drawing 07A – St Catherine's Wood Cross Section

Drawing 07B – St Catherine's Wood Cross Section (P&P slope area)

Drawing 08 – Extent of Cohesive Made Ground Zones

Drawing 09 – Exploratory Holes Targeting Historical Features

Drawing 10 – Bedrock Elevation

Drawing 11 – Groundwater Elevation in Shallow Aquifer

Drawing 12 – Groundwater Elevation in Bedrock

Drawing 13 – Human Health Risk Assessment for Residential without Plant Uptake

Drawing 14 – Human Health Risk Assessment for Public Open Space

Drawing 15 – Identification of Asbestos in Soil Samples

Drawing 16 – Controlled Waters Risk Assessment

Drawing 17 – Hazardous Waste Classification

Drawing 18 – Waste Acceptance Criteria Samples Summary

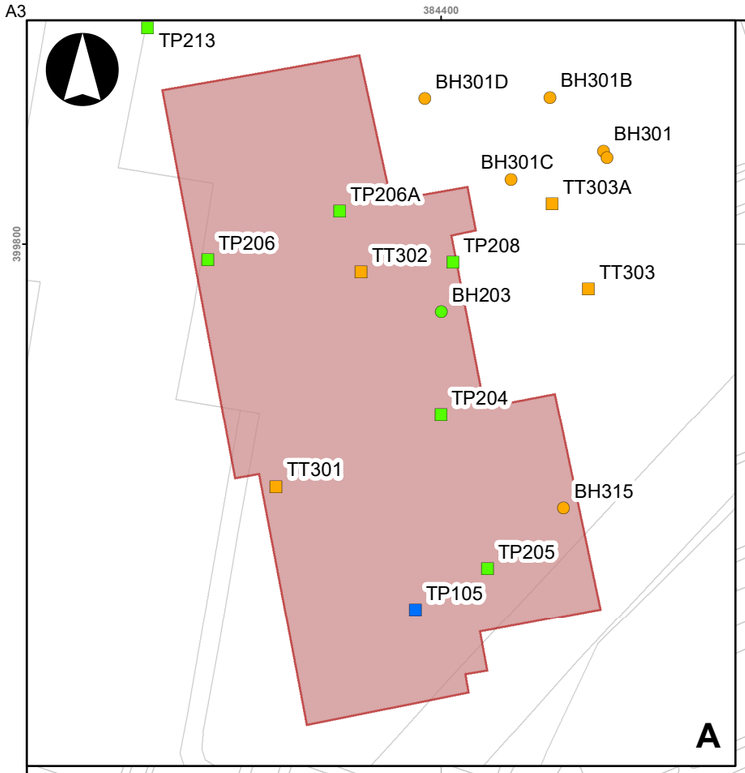
Drawing 19 – Gas Risk Assessment

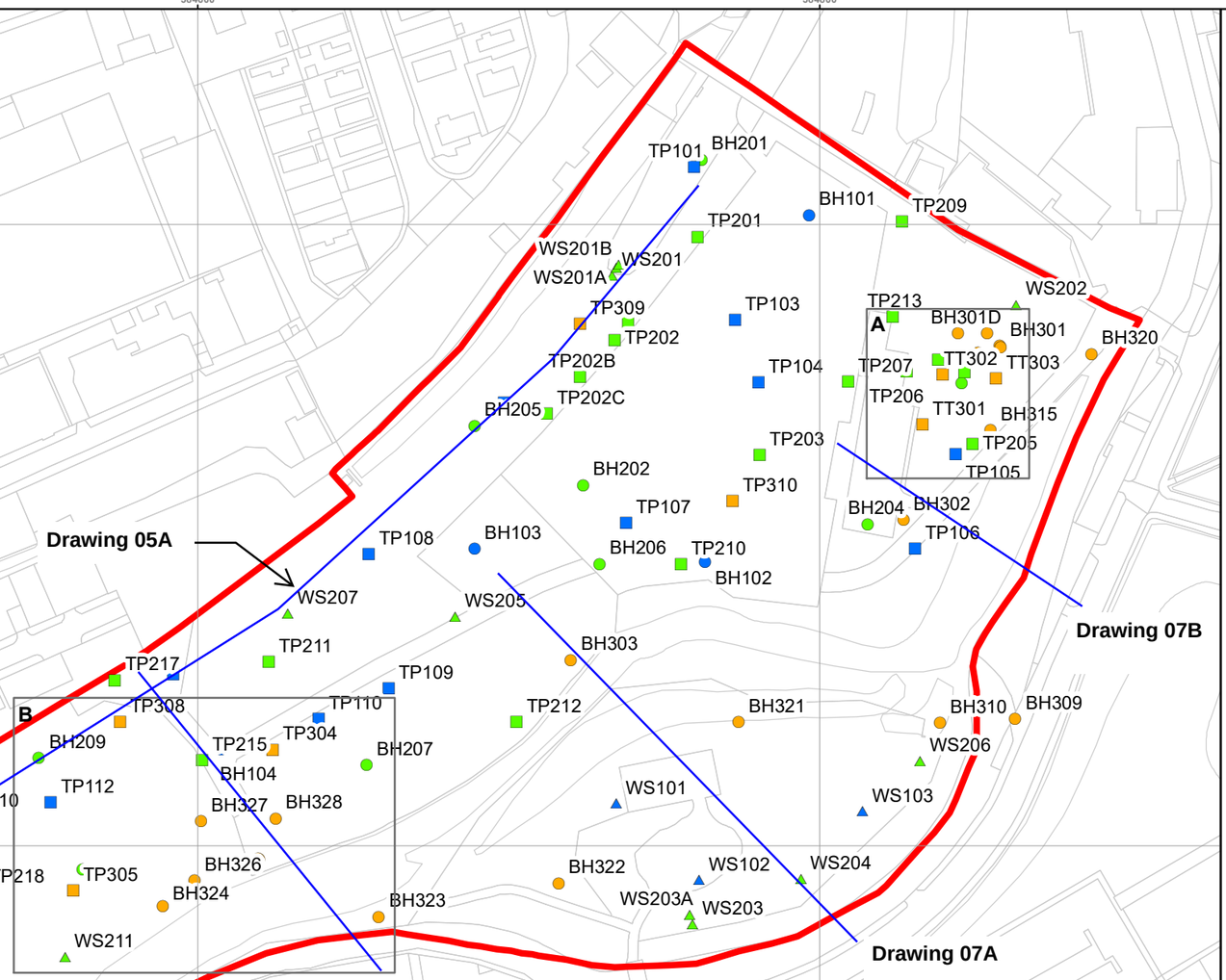
Drawing 20 – Samples Exceeding TPH Saturation Limit

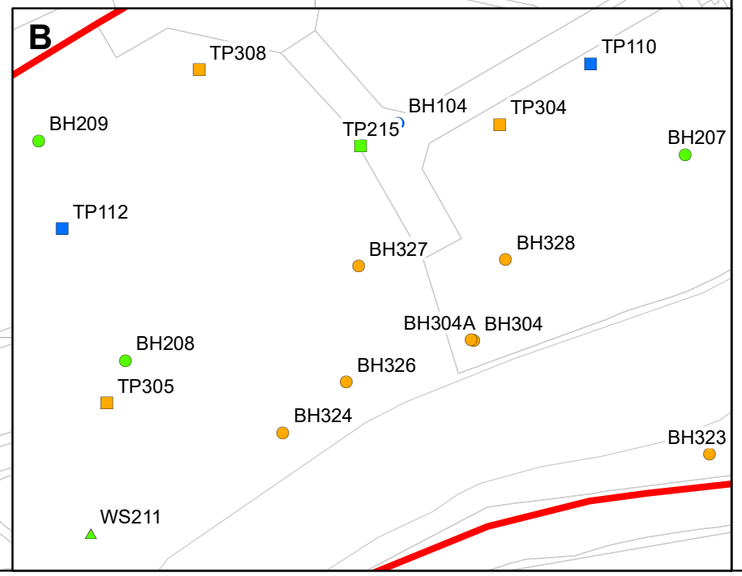
A3

384400 384600 384800

3398800 3399600 3399400







Legend

- Site Boundary

Phase 1 GI
- Borehole
- Trial pit
- Window sample

Phase 2 GI
- Borehole
- Trial pit
- Window sample

Phase 3 GI
- Borehole
- Trial pit
- Window sample

River Engineering Works GI
- Borehole
- Gasworks footprint

Cross section lines and associated drawings

Issue	Date	By	Chkd	Appd
P0	2022-06-23	LH	LH	LH

Metres: 0 25 50 100

ARUP

6th Floor, 3 Piccadilly Place
Manchester M1 3BN
Tel+44(0161) 228 2331 Fax+44(0161)228 6879
www.arup.com

Client
BAM Nuttall Limited

Project Title
Victoria North

This drawing relates to
Ground Investigation Interpretive Report
VNIF-ARP-ZZ-YYY-RP-CG-0012

Drawing Title
Ground Investigation Locations

Scale at A3
1:1,900

Arup Job No
282022

Suitability
Issue

Name
Drawing 01

Rev
P1

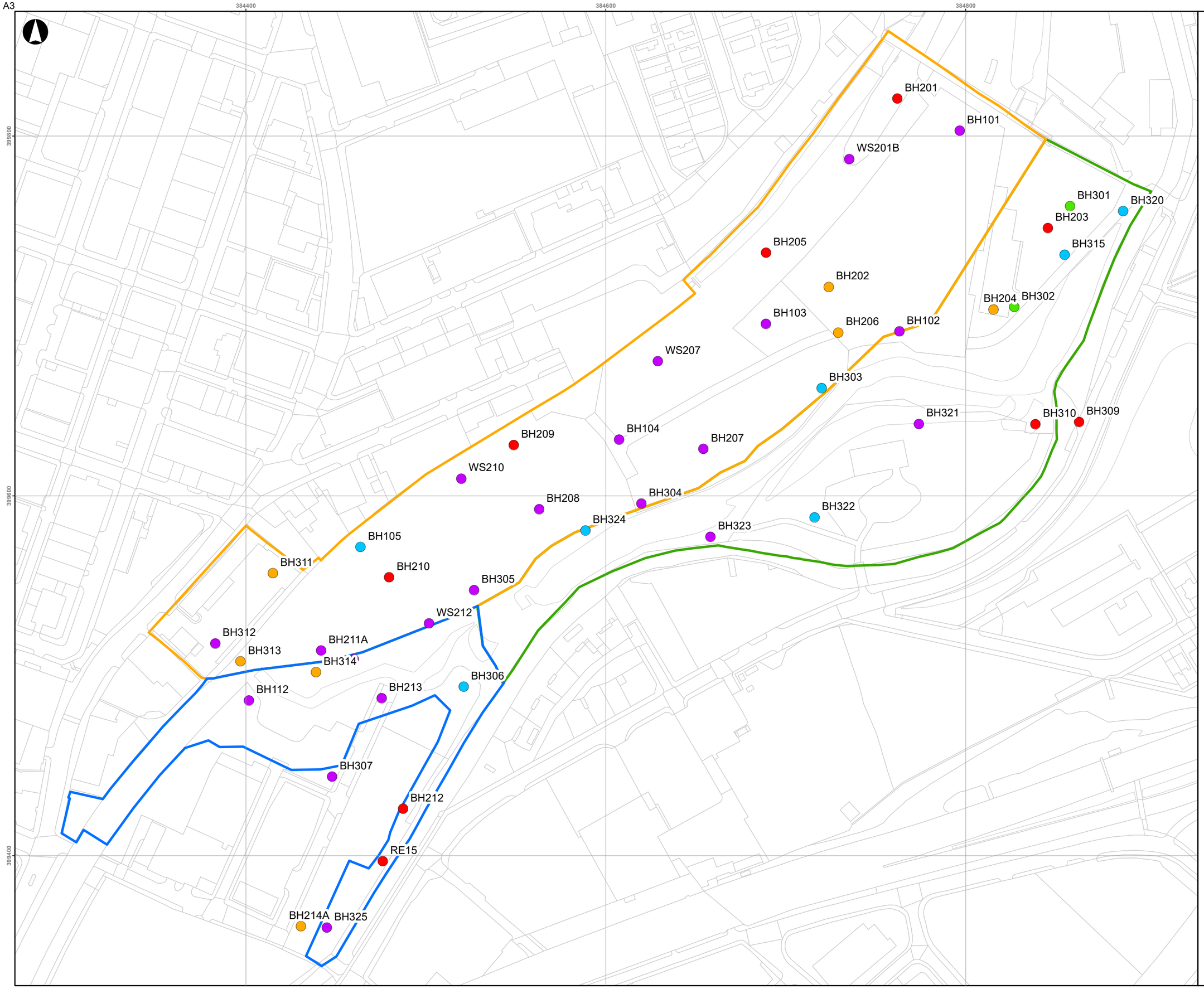
\\global\gis\UK\282000\282022-00 Vic North\Workspaces\VN Phase 3 GIR.mxd

© Arup

A3

384400 384600 384800

399800 399600 399400



Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Monitoring Installations

Response strata

- Made ground
- Alluvium
- Glacial till
- Bedrock
- Inclinometer

Issue	Date	By	Chkd	Appd
P1	2022-08-01	LH	LH	LH

Metres
0 25 50 100

ARUP

6th Floor, 3 Piccadilly Place,
Manchester , M1 3BN
www.arup.com

Client
BAM Nuttall Limited

Project Title
Victoria North
This drawing relates to
Ground Investigation Interpretive Report
VNIF-ARP-ZZ-YYY-RP-CG-0012

Drawing Title
Monitoring Installations

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 02

Rev
P1

\\globalgis\UK\280000\282022-00 Vic North\Workspaces\VN Phase 3 GIR - Drawing 02 onwards.mxd

© Arup

A3

384400 384600 384800

399800 399600 399400

TP101 (0.8-0.9m)
TP213 (1.2-4.5m)
TP206A (1.7-4.5m)
BH320 (3-6.7m)
TT302 (0.7-1.1m)
TP202B (0.1-0.6m)
TP202C (0.5-1.2m)
BH203 (5.5-7.5m)
TP204 (2.4-4.5m)
TP205 (1.9-4.2m)
BH103 (0.1-1.3m)
BH102 (3m)
BH321 (4.4-5.6m)
BH310 (3.9-5.6m)
BH207 (13-15.7m)
TP216 (1.1-1.2m)
BH327 (7.4-8.0m)
BH322 (0.9-3.3m)
BH211A (10.1-10.5m)
BH314 (8.2-9.3m)
BH306 (1.8-3.9m)
TP120 (0.7-1.8m)

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Contamination observed during fieldwork

- Hydrocarbon odour
- Metallic blue sand
- Oily groundwater

Key features

- Bridge
- Carriage Shed
- Infilled Channel
- Infilled Water Body
- Railway Turntable
- River Irk
- Gasworks footprint

Contamination in BH102 was noted during subsequent groundwater sampling

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

ARUP

6th Floor, 3 Piccadilly Place,
Manchester , M1 3BN
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Client
BAM Nuttall Limited

Project Title
Victoria North
This drawing relates to
Ground Investigation Interpretive Report
VNIF-ARP-ZZ-YYY-RP-CG-0012

Drawing Title
Visual and Olfactory Evidence of Contamination

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 03

Rev
P1

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© Arup

A3

384400 384600 384800

399800 399600 399400

TP202A (1.2m)
TP202 (1.4m)
TP202B (0.6m)
TP102 (4.1m)
TP202C (1.2m)
TP206 (0.9m)
TT303A (1.1m)
TT303 (0.3m)
TT302 (0.7-1.1m)
TT301 (1.4-2.7m)
WS103 (3.9m)
OP04 (0.18m)
OP03 (0.2m)
OP02 (0.4m)
OP01 (0.15m)
Zone of surface obstructions including turntables and concrete slab
Buried retaining wall
BH308 (1.6-7.4m)

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood
- Obstructions encountered during formation of exploratory holes

Key features

- Carriage Shed
- Railway Turntable
- River Irk
- Gasworks footprint

A number of surface obstructions were observed during the fieldworks which were not recorded in exploratory holes. These included two rail turntables, a number of drainage chambers, and shallow concrete slabs located in the North Western side of Red Bank Plateau. Please refer to the site clearance drawing (VNIF-ARP-00-YYY-DR-G-0013) which shows obstructions needed to be removed during pre-construction works.

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

ARUP

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Manchester , M1 3BN
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Client
BAM Nuttall Limited

Project Title
Victoria North

This drawing relates to
Ground Investigation Interpretive Report
VNIF-ARP-ZZ-YYY-RP-CG-0012

Drawing Title
Historic Features and Potential Development Constraints

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 04

Rev
P1

\\globalgis\UK\280000\282022-00 Vic North\Workspaces\VN Phase 3 GIR - Drawing 02 onwards.mxd

© Arup

Distance along baseline (m)

Elevation (mOD)

Creamline Dairies location

Honey Street retaining wall

Shallow cohesive made ground layer

Buried carriage shed location

Made Ground

Made Ground

Glacial Till

Manchester Marl

Chester Pebble Bed formation

BH312 (7.4)

BH311 (-6.8)

01_BH105 (7.6)

OP04 (9.1)

GEO_TP216 (-8.8)

GEO_WS210 (-0.1)

GEO_BH209 (-1.6)

TP308 (1.0)

01_TP111 (-3.1)

GEO_TP211 (8.8)

GEO_WS207 (-1.4)

01_TP108 (1.9)

GEO_BH205 (-3.2)

01_TP102 (-1.8)

GEO_TP202B (0.6)

TP309 (8.1)

GEO_TP202 (7.3)

GEO_TP201 (5.4)

Ground level from EA LiDAR data

SCALE 1:133V 1:1528H @ A3-L

LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT: * from main blows ** from seating blows

PLAN

COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Made Ground - Concrete [MG-Conc]
- Glacial Till Deposits - Cohesive [GTD - CO]
- Glacial Till Deposits - Granular [GTD - G]
- Chester Formation [CHES]
- Manchester Marls Formation [MM]
- Assumed ground water profile in Glacial Till

MATERIALS

- Fill (MADE GROUND)
- Silty gravelly SAND
- SAND
- Gravelly SAND
- Silty SAND
- SANDSTONE
- Gravelly CLAY
- Sandy gravelly CLAY
- Silty sandy CLAY
- Sandy cobbly GRAVEL
- Clayey gravelly SAND
- Silty gravelly CLAY
- SAND and GRAVEL
- MUDSTONE
- Sandy CLAY
- Silty sandy gravelly CLAY

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

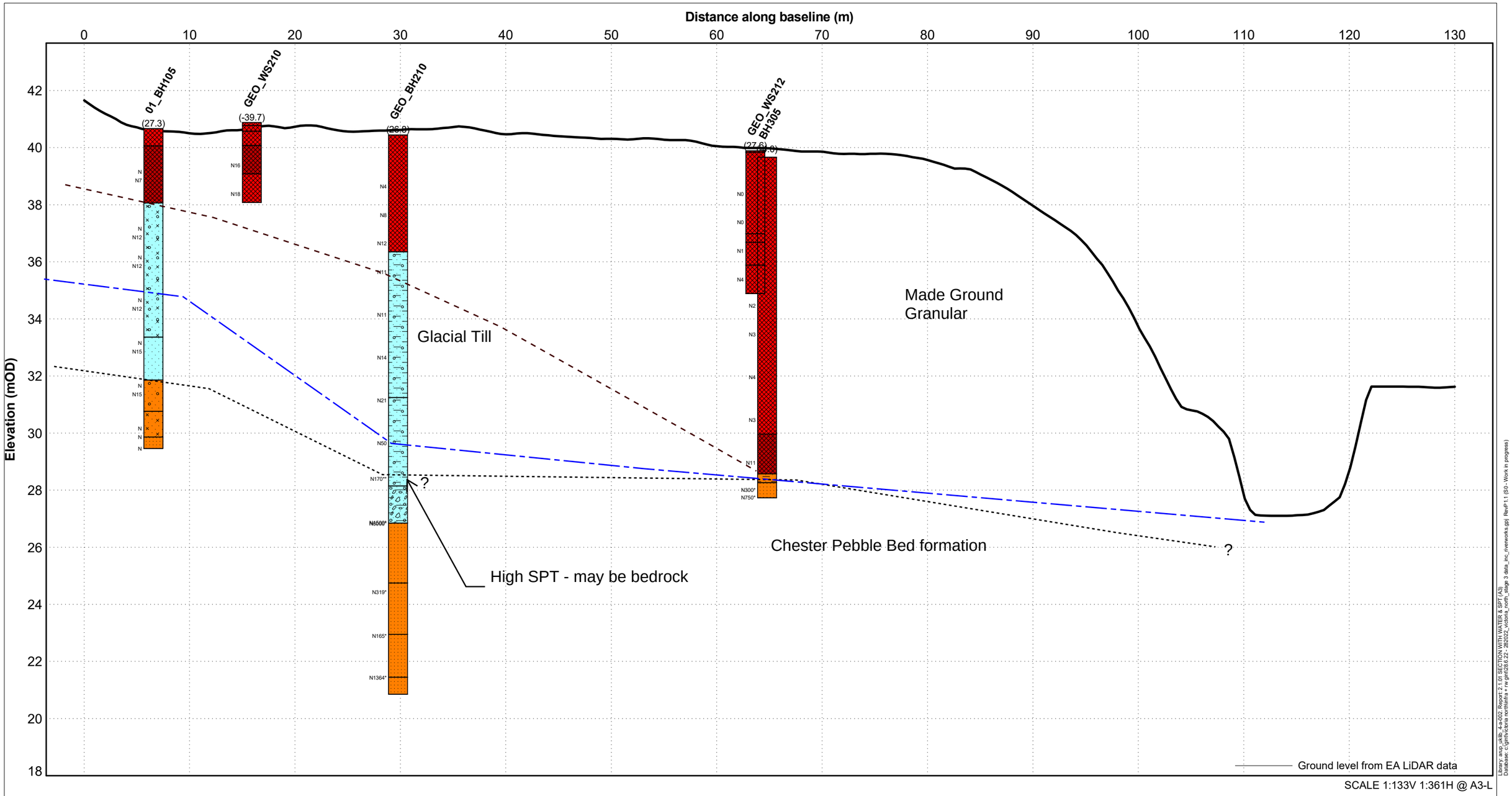
Figure Title
Geological Long section
Red Bank Plateau

Job No
282022

Drawing 05A

ARUP_gINT v10.00.01.07. Made by Jonny Tyrer on 17-May-22

Library: arup_gIntb_4-a-002. Report: 2.1.01 SECTION WITH WATER & SPT (A3)
Database: c:\gints\bra northallerton + rw.gpj\01.22 - 282022_victoria_north_stage 3 data_inc_rivenworks.gpj RevP1.1 (SO - Work in progress)



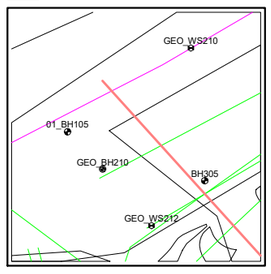
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT:
* from main blows
** from seating blows

PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Glacial Till Deposits - Granular [GTD - G]
- Chester Formation [CHES]
- Assumed ground water profile based on glacial till

MATERIALS

- Fill (MADE GROUND)
- Silty gravelly SAND
- SAND
- Gravelly SAND
- Silty SAND
- SANDSTONE
- Clayey SAND
- Clayey gravelly SAND
- Clayey sandy GRAVEL

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

Figure Title
Geological cross section

Red Bank Plateau

Job No
282022

Drawing 05B

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 8-Jul-22

Library: arup_uklib_4-a-002. Report: 2.1.01 SECTION WITH WATER & SPT (A3)
Database: c:\gint\victoria northlatfra + rw gint\28.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

Distance along baseline (m)

Elevation (mOD)

GEO_BH209 (36.4)
GEO_WS207 (-55.3)
01_BH104 (-11.2)
BH327 (8.6)
BH328 (-10.6)
BH304 (-0.1)
BH304A (2.1)
BH323 (-15.8)
52_WS4 (-0.4)

Made Ground
Granular

Cohesive pockets

Glacial Till

Cohesive pockets

BH323 is upstream to the east.
Bedrock drops in elevation to the west

Original rail viaduct present to the left and rail sidings expanded to the right of this line

Transition from higher density MG behind plateau and loose material forming plateau slope

Bedrock

Assumed relic surface soil material containing tree remnants associated with the historical mill race

Honey street retaining wall

Ground level from EA LiDAR data

SCALE 1:133V 1:389H @ A3-L

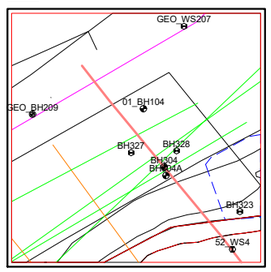
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT: * from main blows ** from seating blows

PLAN



COLOUR LEGEND

- Made Ground [MG]
- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Alluvium granular [ALV-G]
- Glacial Till Deposits - Cohesive [GTD - CO]
- Glacial Till Deposits - Granular [GTD - G]
- Manchester Marls Formation [MM]
- Assumed ground water profile in made ground

MATERIALS

- Fill (MADE GROUND)
- Sandy gravelly CLAY
- SAND
- CLAY
- SANDSTONE
- TOPSOIL
- Silty gravelly SAND
- MUDSTONE
- Gravelly SAND
- Clayey gravelly SAND

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

Figure Title
Geological cross section
Red Bank Plateau

Job No
282022

Drawing 05C

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 8-Jul-22

Library: arup_uk6b_4-a-002. Report 2.1 01 SECTION WITH WATER & SPT (A3)
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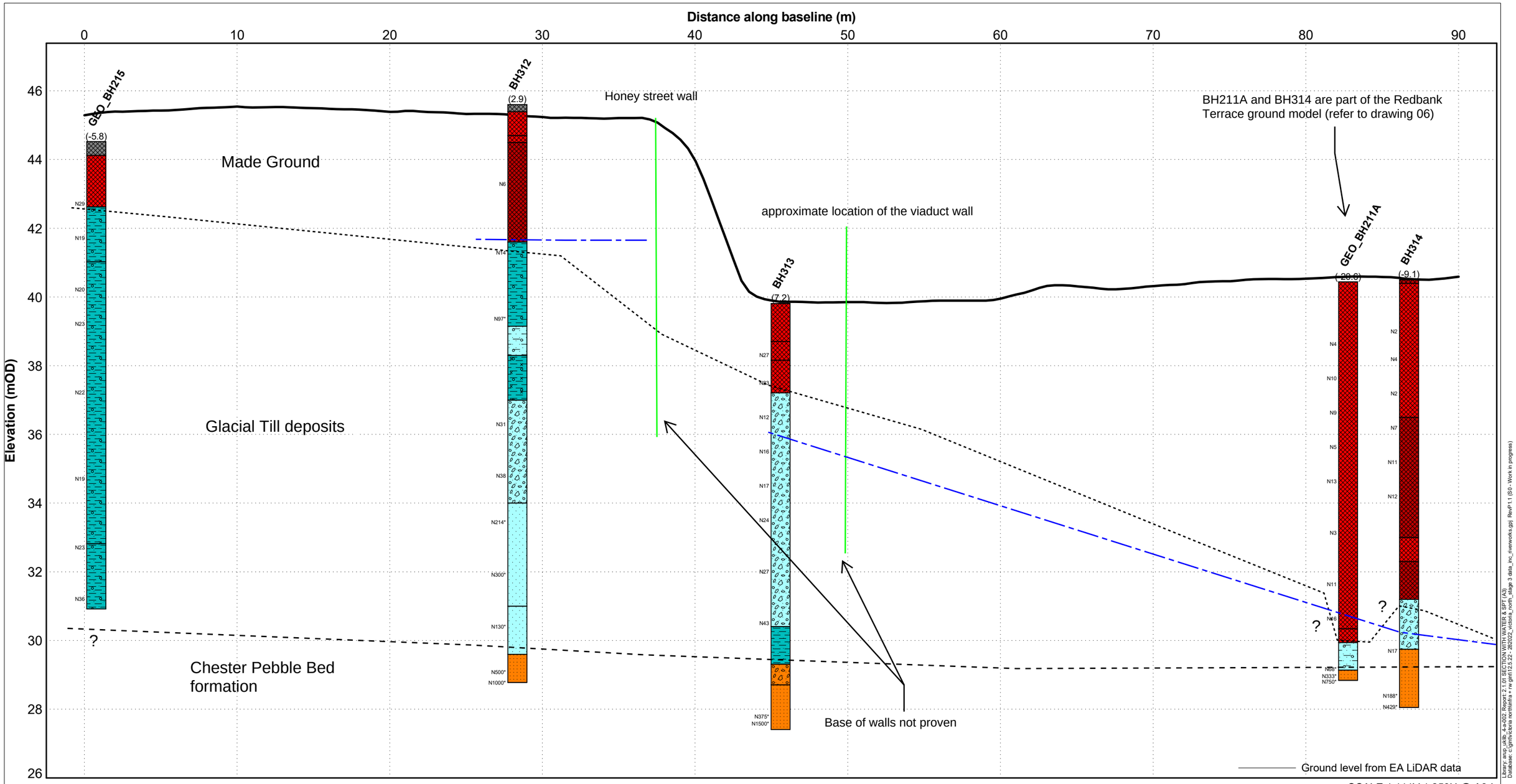


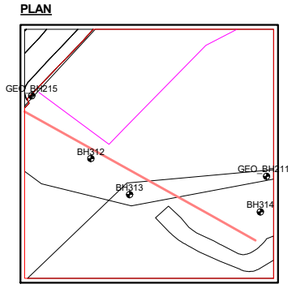
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT: * from main blows ** from seating blows

PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Made Ground - Concrete [MG-Conc]
- Glacial Till Deposits - Cohesive [GTD - CO]
- Glacial Till Deposits - Granular [GTD - G]
- Chester Formation [CHES]
- Assumed ground water profile in Glacial TIll

MATERIALS

- Fill (MADE GROUND)
- Gravelly CLAY
- Clayey gravelly SAND
- Silty gravelly CLAY
- SAND and GRAVEL
- SAND
- SANDSTONE
- Sandy CLAY
- Sandy gravelly CLAY

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

Figure Title
Geological cross section
Red Bank Plateau

Job No
282022

Drawing 05D

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 27-May-22

Distance along baseline (m)

0 10 20 30 40 50 60 70 80 90

Elevation (mOD)

48 46 44 42 40 38 36 34 32 30 28

BH311 (-1.3)

N10 N12 N22 N75* N33 N25 N25 N40 N42 N67 N375* N1500*

GEO_TP214 (-4.4)

GEO_WS213 (-4.9)

GEO_WS213A (-6.9)

N2 N7 N14

01_TP115 (-3.4)

01_BH106 (8.7)

N N9 N N15 N N8 N N7 N N11 N N12 N N15 N405* N938*

Made Ground

Glacial Till

Chester Pebble Bed formation

?

Ground level from EA LiDAR data

SCALE 1:111V 1:250H @ A3-L

Library: arup_uklib_4-x-002: Report 2.1.07 SECTION WITH WATER & SPT (A3)
Database: c:\gint\victoria north\arup v 10 gint\db8.22 - 282062_victoria_north_stage 3 data_inc_rivenworks.gpj RevP1.1 (SO - Work in progress)

ARUP_gINT v10.00.01.07. Made by Jonny Tyrer on 20-Jun-22

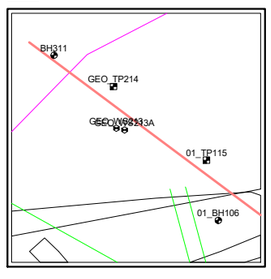
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT: * from main blows ** from seating blows

PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Made Ground - Concrete [MG-Conc]
- Glacial Till Deposits [GTD]
- Glacial Till Deposits - Cohesive [GTD - CO]
- Glacial Till Deposits - Granular [GTD - G]
- Chester Formation [CHES]
- Assumed ground water profile in Glacial Till

MATERIALS

- Fill (MADE GROUND)
- Sandy gravelly CLAY
- SANDSTONE
- Gravelly CLAY
- Gravelly SAND
- Silty sandy CLAY
- Sandy cobbly GRAVEL

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

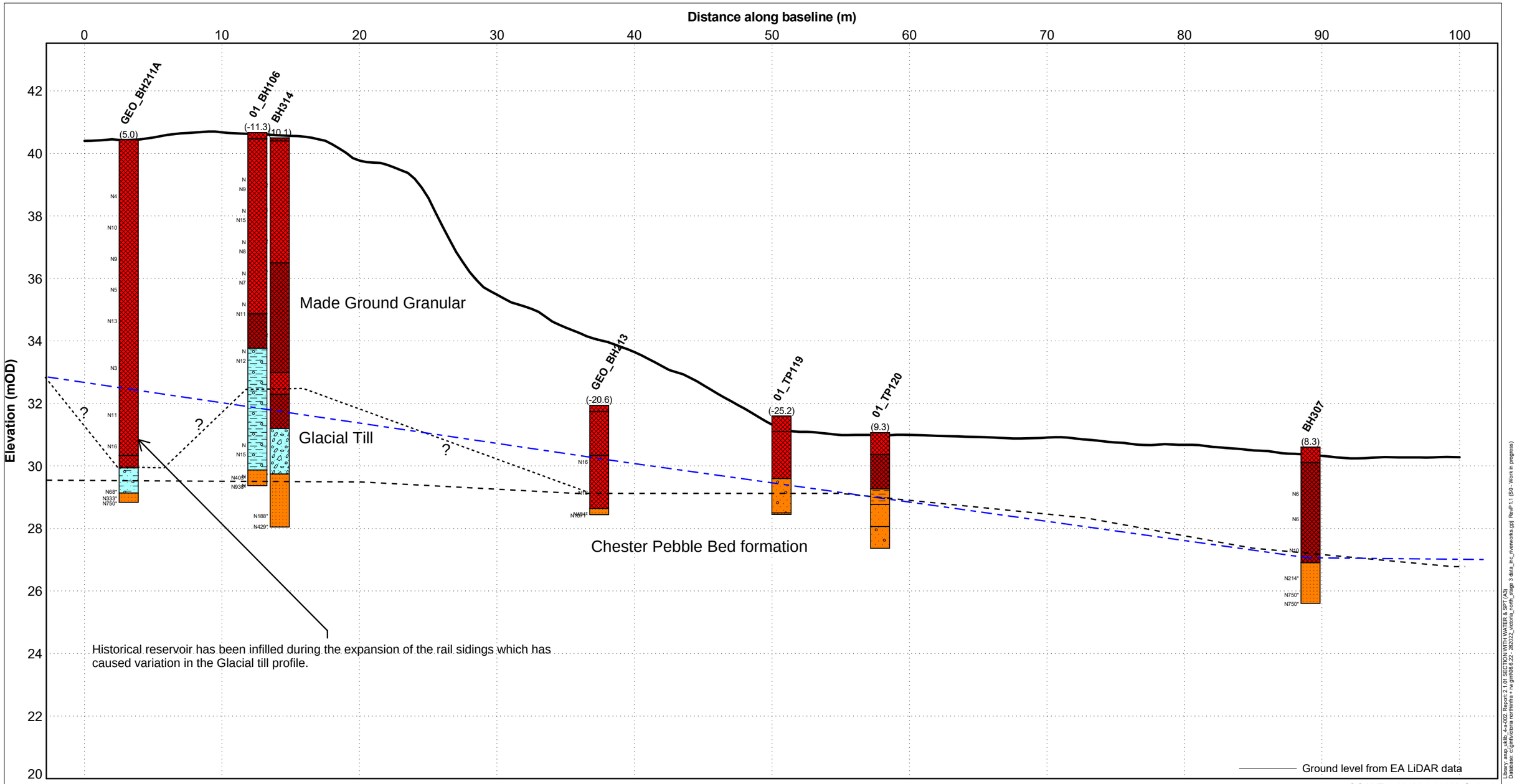
Job Title
Victoria North

Figure Title
Geological cross section

Red Bank Plateau

Job No
282022

Drawing 05E



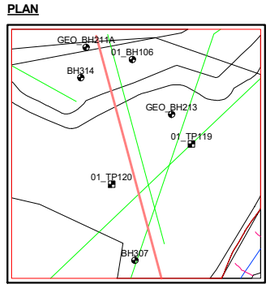
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT:
* from main blows
** from seating blows

PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Glacial Till Deposits [GTD]
- Glacial Till Deposits - Granular [GTD - G]
- Chester Formation [CHES]
- Assumed ground water profile in made ground

MATERIALS

- Fill (MADE GROUND)
- Sandy gravelly CLAY
- SANDSTONE
- SAND and GRAVEL
- Clayey gravelly SAND
- Gravelly SAND
- CLAY
- SAND

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

Figure Title
Geological cross section

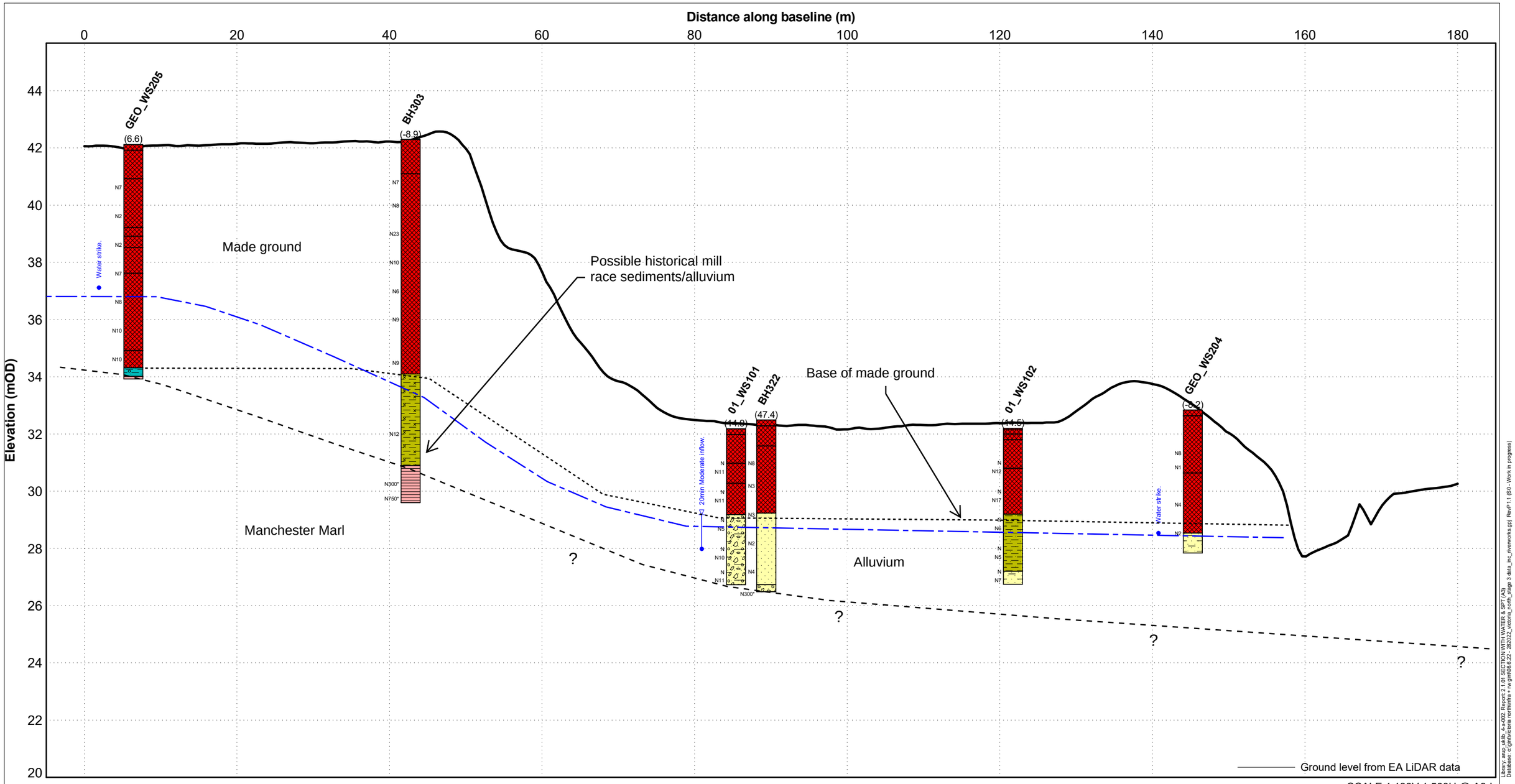
Red Bank Terrace

Job No
282022

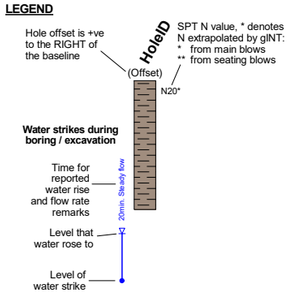
Drawing 06

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 14-Jun-22

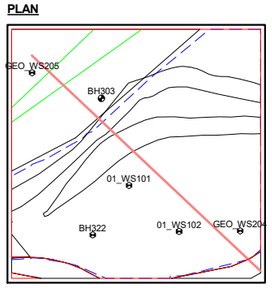
Library: arup_uklib_4-a-002. Report: 2.1.01 SECTION WITH WATER & SPT (A3)
Database: c:\gint\victoria northlatrix + rw gint\08.6.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)



LEGEND



PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Alluvium Cohesive [ALV-CO]
- Alluvium granular [ALV-G]
- Glacial Till Deposits - Cohesive [GTD - CO]
- Manchester Marls Formation [MM]
- Assumed ground water profile in made ground / alluvium

MATERIALS

- Fill (MADE GROUND)
- Sandy gravelly CLAY
- Silty Clay
- MUDSTONE
- Clayey sandy GRAVEL
- Sandy CLAY
- Clayey SAND
- SAND
- SAND and GRAVEL

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

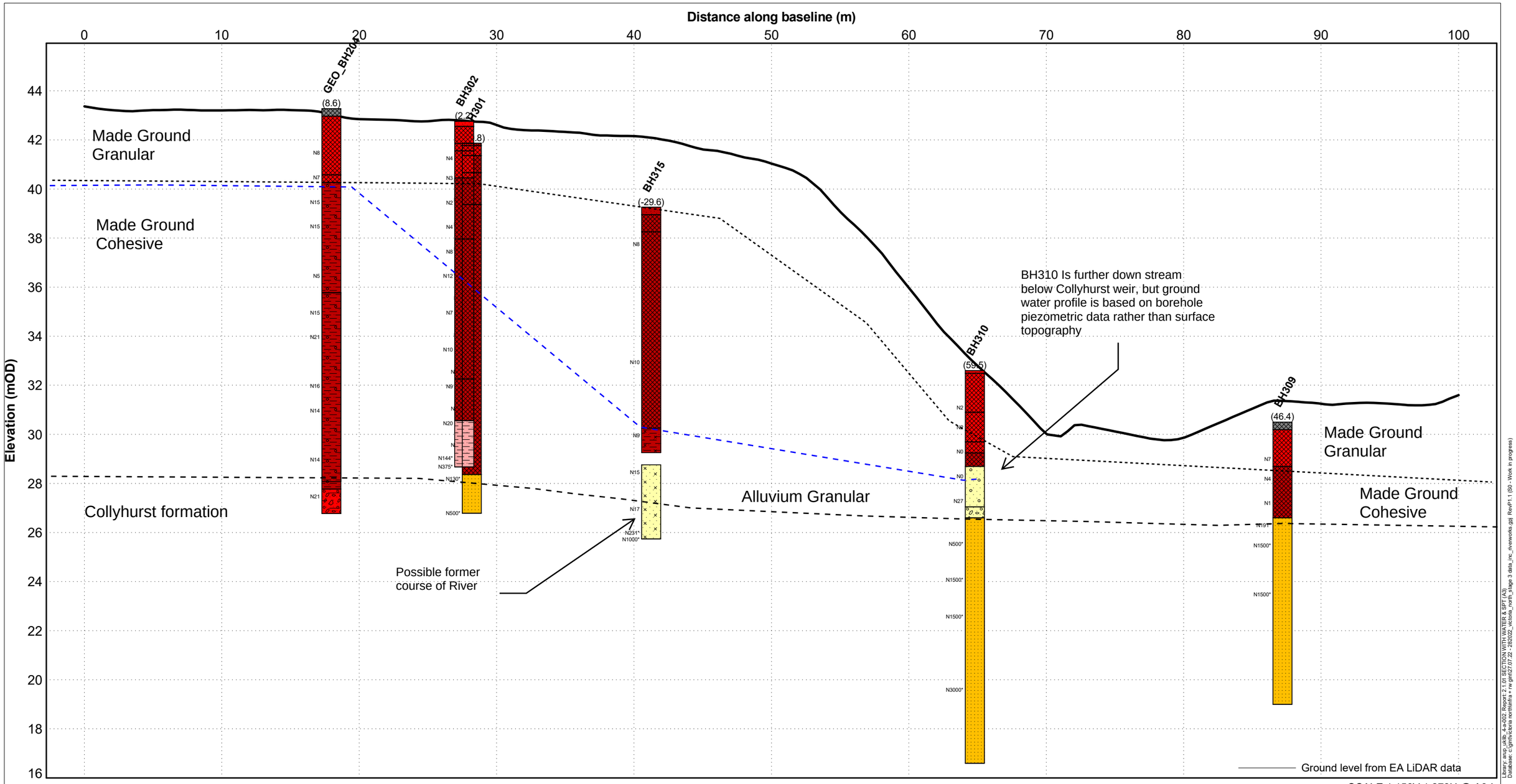
Figure Title
Geological cross section

St Catherine's Wood

Job No
282022

Drawing 07A

ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 24-Jun-22



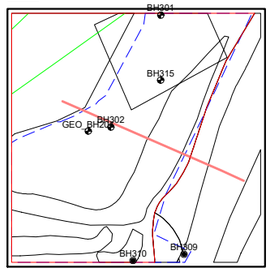
LEGEND

Hole offset is +ve to the RIGHT of the baseline

HoleID (Offset) N20*

SPT N value, * denotes N extrapolated by gINT:
* from main blows
** from seating blows

PLAN



COLOUR LEGEND

- Made Ground - Granular [MG-G]
- Made Ground - Cohesive [MG-CO]
- Made Ground - Concrete [MG-Conc]
- Alluvium granular [ALV-G]
- Manchester Marls Formation [MM]
- Collyhurst Sandstone Formation [CS]
- Assumed ground water profile in made ground / bedrock

MATERIALS

- Fill (MADE GROUND)
- SANDSTONE
- TOPSOIL
- Sandy CLAY
- Silty sandy CLAY
- Silty SAND
- Sandy gravelly CLAY
- Clayey sandy GRAVEL
- Gravelly SAND
- SAND and GRAVEL

Refer to Drawing 01 For cross section locations

This drawing relates to
Ground Investigation Interpretive Report

VNIF-ARP-ZZ-YYY-RP-CG-0012

ARUP

Job Title
Victoria North

Figure Title
Geological cross section

North East of St Catherine's Wood

Job No
282022

Drawing 07B

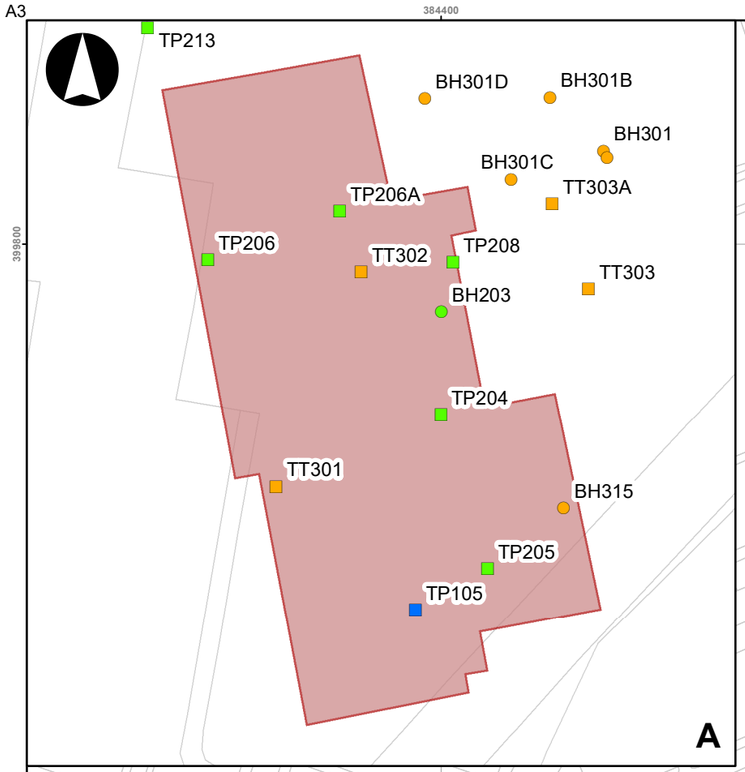
ARUP. gINT v10.00.01.07. Made by Jonny Tyrer on 10-Aug-22

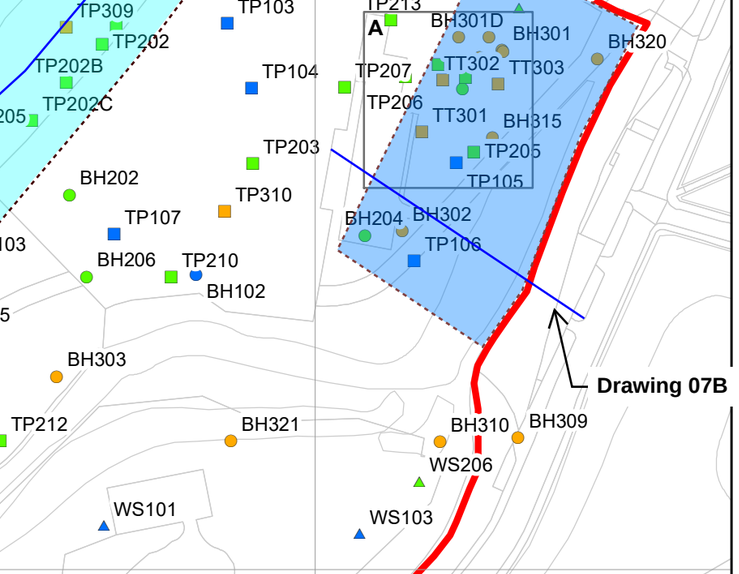
Library: arup_uklib_4-a-002. Report: 2.1.01 SECTION WITH WATER & SPT (A3)
Database: c:\gint\victoria northlatfra + rw gint\27.07.22 - 282022_victoria_north_stage 3 data_inc_riverworks.gpj RevP1.1 (S0 - Work in progress)

A3

384400 384600 384800

3398600 3396600 3394600





Drawing 05A

Drawing 05B

Drawing 05C

Drawing 07B

Legend

Site Boundary

Phase 1 GI
- Borehole
- Trial pit
- Window sample

Phase 2 GI
- Borehole
- Trial pit
- Window sample

Phase 3 GI
- Borehole
- Trial pit
- Window sample

River Engineering Works GI
- Borehole
- Gasworks footprint

Approximate extent of cohesive zones in made ground

Approximate extent of glacial till

Geological cross section locations (with drawing reference)

P0	2022-06-23	LH	LH	LH

Issue	Date	By	Chkd	Appd

Metres: 0 25 50 100

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Client
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Project Title
Victoria North

This drawing relates to
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Drawing Title
Approximate extent of cohesive made ground and glacial till

Scale at A3
1:1,900

Arup Job No
282022

Suitability
Issue

Name
Drawing 08

Rev
P1

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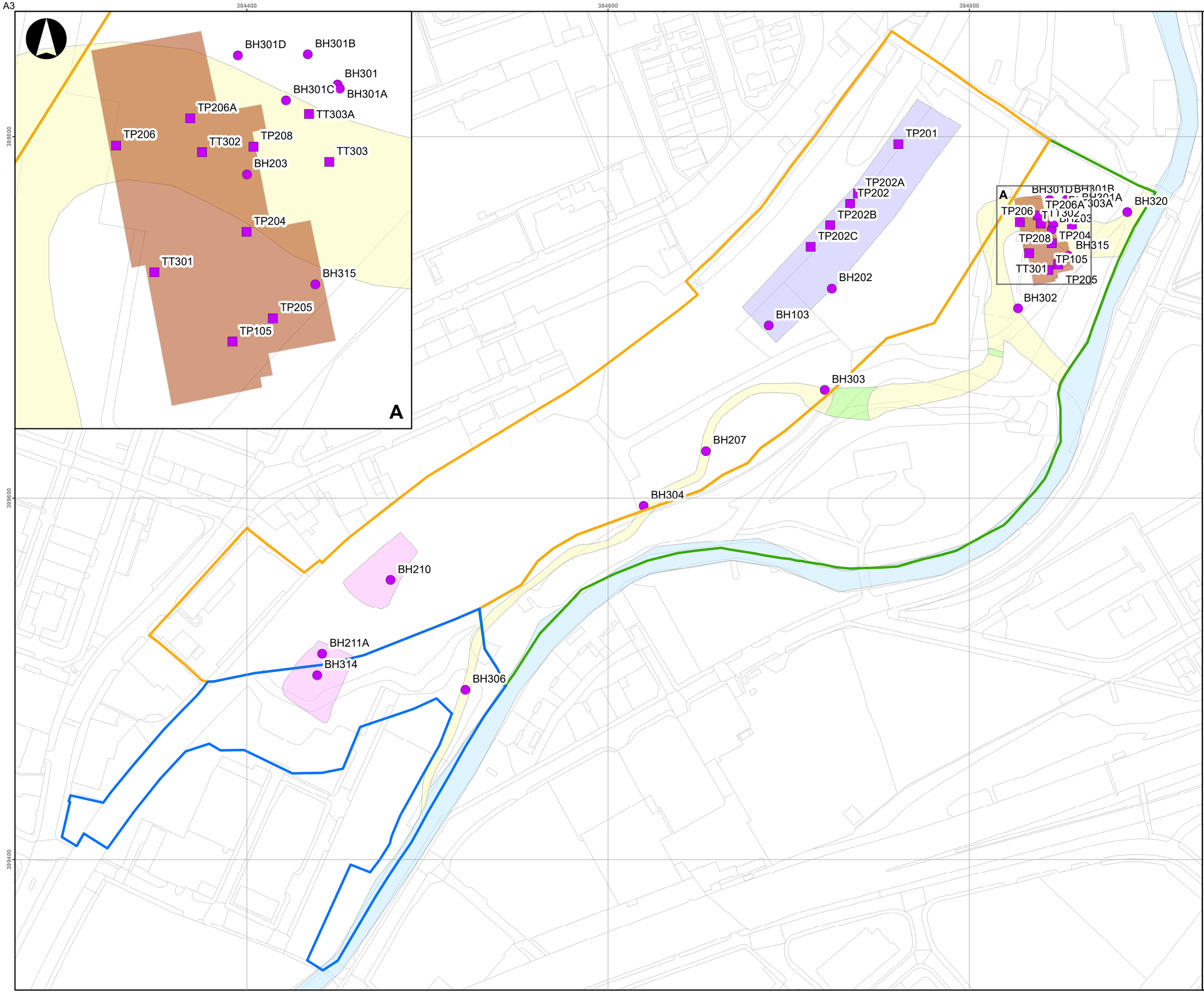
A3



Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Exploratory hole

- Borehole
- Trial pit

Key features

- Bridge
- Carriage Shed
- Infilled Channel
- Infilled Water Body
- River Irk
- Gasworks footprint

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

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Project Title
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Drawing Title
Exploratory Holes Targetting Historical Features

Scale at A3
1:1,900

Arup Job No
282022

Suitability
Issue

Name
Drawing 09

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

Manchester Marl

Collyhurst Sandstone

Chester Pebble Beds

38.8 36.38 37.78 34.16 38.57 36.59 36.13 34.02 30.9 30.56 28.6 28.89 33.01 25.94 26.46 25.58 26.2 28.31 31.87 29.4 26.85 28.57 29.6 29.14 29.75 29.87 29.31 28.64 25.85 28.25 26.91 24.86 24.68 24.41 25.93 26.05 25.47 28.37 25.49 26.6 26.6

38mOD 36mOD 34mOD 32mOD 30mOD 28mOD 28mOD 28mOD 28mOD 28mOD 28mOD 28mOD

Legend

Bedrock encountered (moD)

- Chester Pebble Beds
- Collyhurst Sandstone
- Manchester Marl
- Inferred rockhead contours (mOD)
- Inferred bedrock boundaries

The coloured background displays the BGS 1:50,000 bedrock map

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres 0 25 50 100

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Client
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Project Title
Victoria North

This drawing relates to
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Drawing Title
Bedrock Elevation

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 10

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

38.5
42.8
Dry
29.5
37.4
40.5
40.1
39.6
39.7
41.6
40 mOD
34.3
30.2
33.1
35 mOD
28.9
38.6
Dry
28.7
29.2
28.8
Dry
37
37.7
30 mOD
Dry
Dry
41.8
36.1
32.9
Dry
30.6
28 mOD
Dry
28.9
27.5
28.6
Dry
27 mOD
27.2
26.6
26.7

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood
- Groundwater levels in made ground (mOD)
- Groundwater levels in alluvium (mOD)
- Groundwater levels in glacial till (mOD)
- Inferred shallow groundwater contour (mOD)

Shallow groundwater contours have been interpreted from made ground and alluvium data only

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

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Project Title
Victoria North
This drawing relates to
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Drawing Title
Groundwater Elevation in Shallow Aquifer

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 11

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

38
Collyhurst Sandstone
29.7
36.4
Manchester Marl
28.4
27.7
28.9
32.1
Chester Pebble Beds
30.6
Dry
27
27.2

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood
- Groundwater levels in bedrock (mOD)
- Inferred bedrock boundaries

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

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Client
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Project Title
Victoria North

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Drawing Title
Groundwater Elevation in Bedrock

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 12

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

WS201
TP202
SoilSamp05
TP213
BH301D
TT302
PAH
TP206
TP210
BH102
WS205
BH303
TP109
TP110
TP212
BH209
BH104
SoilSamp10
BH207
TP112
BH327
BH304
BH328
BH208
BH326
TP305
BH324
TP306
BH305
TP115
WS212
OP01
BH211A

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

GAC Exceedances

- No contaminants tested exceed GAC
- >1 contaminant exceeds GAC
- >1 contaminant significantly exceeds GAC

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

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Client
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Project Title
Victoria North

This drawing relates to
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Drawing Title
Human Health Risk Assessment for Residential without Plant Uptake

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 13

Rev
P1

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A3

384400

384600

384800

399800

399600

399400

BH301

TT303
PAH

BH323

BH314

BH306

BH213

TP120

TP219

BH307

BH110

BH308

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

GAC Exceedances

- No contaminants tested exceed GAC
- >1 contaminant exceeds GAC
- >1 contaminant significantly exceeds GAC

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres

0 25 50 100

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Client

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Project Title

Victoria North

This drawing relates to
Ground Investigation Interpretive Report

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Drawing Title

Human Health Risk Assessment for Public Open Space

Scale at A3

1:1,900

Arup Job No	Suitability
282022-00	**Issue**

Name

Drawing 14

Rev

P1

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A3

384400

384600

384800

399800

399600

399400

SoilSamp07

BH301

TP206

TT302

BH315

TP105

TP210

WS207

WS103

BH323

OP01

BH112

TP120

BH110

BH212A

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Asbestos identification

- Asbestos detected
- Asbestos not detected

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres

0 25 50 100

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Project Title

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This drawing relates to
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Drawing Title

Identification of Asbestos in Soil Samples

Scale at A3

1:1,900

Arup Job No

282022-00

Suitability

Issue

Name

Drawing 15

Rev

P1

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A3

384400 384600 384800

399800 399600 399400

BH201
Cd, Mn, Zn

WS201B
NH4

SWS01

BH203

TP202B
PAH

TP202C
PAH

BH205

TT301
Mn, TPH, PAH

BH315
Mn, cyanide, PAH, NH4

BH202
Cd, Zn, Mn

BH204
Cd, Zn

BH103
Mn, cyanide

BH206

BH102
Pb, TPH, PAH

WS207
NH4

BH303
PAH

BH310

BH209

BH207

WS210

BH208

BH322
Mn

SWS02

BH105
Cd, Mn

BH210
NH4

BH211A
Cyanide

BH314
Pb, Mn, cyanide, NH4

BH306
Cd, Cr, Pb, cyanide, NH4

BH212
Cd, Pb, cyanide

RE15

BH214A

SWS03
Hg

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

GAC Exceedances

- No contaminants tested exceed GAC
- >1 contaminant exceeds GAC
- >1 contaminant significantly exceeds GAC

Issue	Date	By	Chkd	Appd
P1	2022-11-17	LH	LH	LH

Metres
0 25 50 100

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Project Title
Victoria North
This drawing relates to
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Drawing Title
Controlled Waters Risk Assessment

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 16

Rev
P2

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A3

384400 384600 384800

399800 399600 399400

BH101 (0.8m)
BH203 (11.7m)
TT303 (0.35m)
TT302 (0.3m, 0.8m)
TT301 (2.45m)
BH103 (1m)
BH102 (3.5m)
WS205 (2m)
TP109 (0.3m)
BH327 (7.4m)
BH323 (0.5m)
BH314 (7.5m)
BH306 (0.5m, 1m)
BH213 (1.2m)
TP120 (0.3m)
BH110 (3m)
BH308 (1m)

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

HazWasteOnline classification

- Hazardous
- Non Hazardous

Issue	Date	By	Chkd	Appd
P1	2022-08-04	LH	LH	LH

Metres
0 25 50 100

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Project Title
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Drawing Title
Hazardous Waste Classification

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 17

Rev
P1

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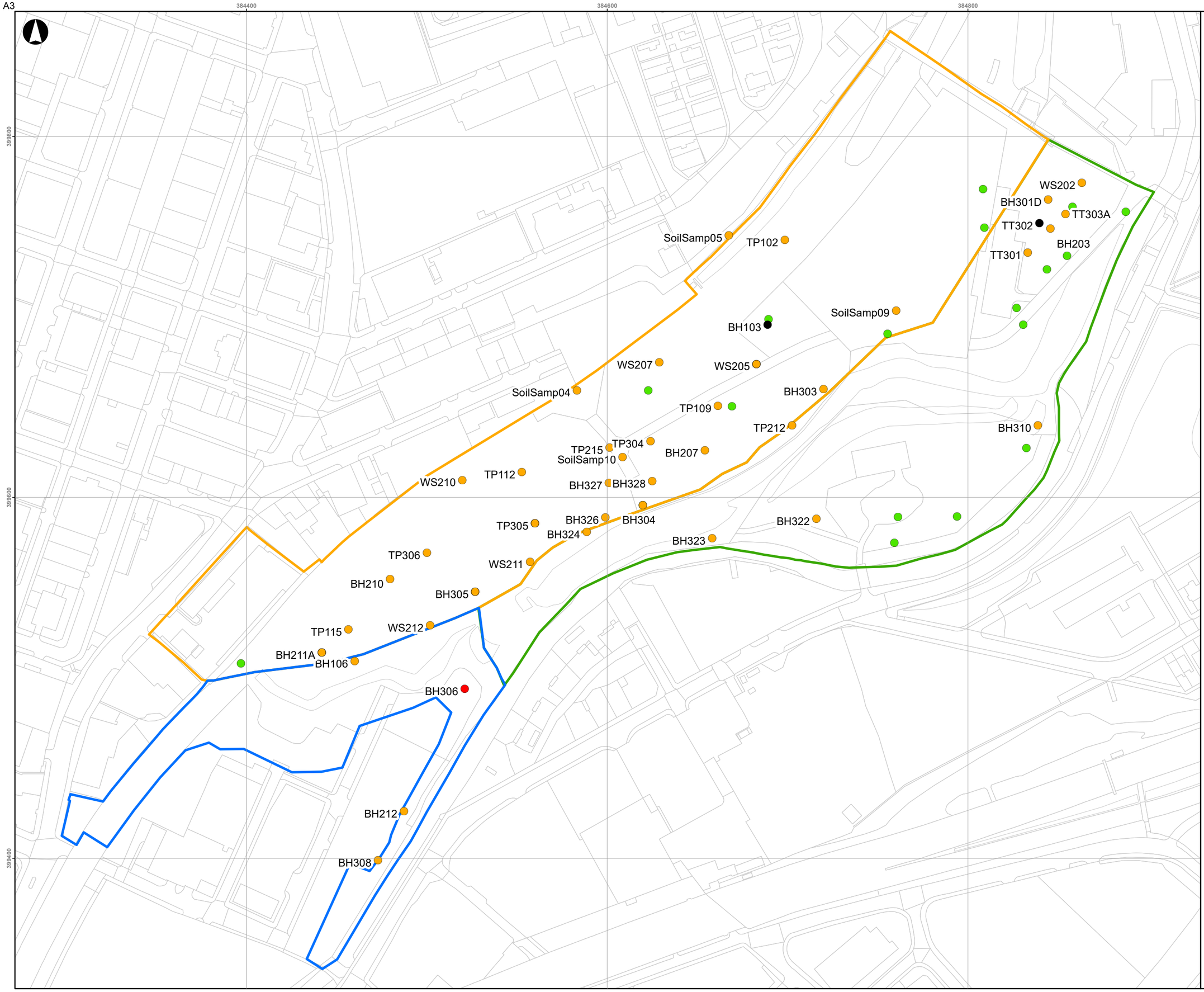
A3



Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

WAC assessment

- Inert
- Non-Hazardous
- Hazardous (as determined by hazardous waste assessment)
- Hazardous – requires TOC treatment

Issue	Date	By	Chkd	Appd
P1	2022-11-17	LH	LH	LH

Metres
0 25 50 100

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Drawing Title
Waste Acceptance Criteria Classification

Scale at A3
1:1,900

Arup Job No	Suitability
282022-00	**Issue**

Name	Rev
Drawing 18	**P2**

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A3

384400 384600 384800

399800 399600 399400

BH201
BH101
WS201B
BH320
BH205
BH315
BH202
BH204
BH206
BH102
BH209
BH207
BH321
BH208
BH304
BH323
BH311
BH305
BH312
BH313
BH314
BH306
BH112
BH213
BH307
BH325

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Characteristic Situation

- CS1
- CS2
- CS3

Key features

- Infilled Channel
- Infilled Water Body
- Bridge

Issue	Date	By	Chkd	Appd
P1	2022-08-05	LH	LH	LH

Metres
0 25 50 100

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Project Title
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Drawing Title
Gas Risk Assessment

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 19

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

BH101 (0.8m)
TP202 (0.3m)
TP104 (0.3m)
TT302 (2.45m)
TT303 (0.35m)
TT301 (0.3m)
BH103 (0.3m)
BH102 (0.3m, 3.5m)
TP210 (0.3m)
BH305 (1.0m)
OP02 (0.1m)
BH211A (10.5m)
OP01 (0.1m)

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood
- Samples exceeding TPH saturation limit

Key features

- Bridge
- Carriage Shed
- Infilled Channel
- Infilled Water Body
- Railway Turntable
- River Irk
- Gasworks footprint
- Approximate Extent of Regrading & Reduced Level Dig

Issue	Date	By	Chkd	Appd
P1	2022-08-12	LH	LH	LH

Metres
0 25 50 100

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Project Title
Victoria North

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Drawing Title
Samples Exceeding TPH Saturation Limit

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 20

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

BH301
TT303
PAH
BH323
BH314
BH213
BH306
TP120
TP219
BH307
BH110
BH308

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

GAC Exceedances

- No contaminants tested exceed GAC
- >1 contaminant exceeds GAC
- >1 contaminant significantly exceeds GAC

Clean cover system

- As existing
- Hardstanding
- 300mm topsoil
- 300mm topsoil and 300mm subsoil
- 100mm topsoil

Issue	Date	By	Chkd	Appd
P1	2022-11-21	LH	LH	LH

Metres
0 25 50 100

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Client
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Project Title
Victoria North

This drawing relates to
Ground Investigation Interpretive Report
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Drawing Title
Human Health Assessment for Public Open Space with Clean Cover System

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 21

Rev
P1

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A3

384400 384600 384800

399800 399600 399400

SoilSamp07
BH301
TP206
TT302
BH315
TP105
TP210
WS207
WS103
BH323
OP01
BH112
TP120
BH110
BH212A

Legend

Site Area

- Red Bank Plateau
- Red Bank Terrace
- St Catherine's Wood

Asbestos identification

- Asbestos detected
- Asbestos not detected

Clean cover system

- As existing
- Hardstanding
- 300mm topsoil
- 300mm topsoil and 300mm subsoil
- 100mm topsoil

Issue	Date	By	Chkd	Appd
P1	2022-11-21	LH	LH	LH

Metres
0 25 50 100

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Client
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Project Title
Victoria North
This drawing relates to
Ground Investigation Interpretive Report
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Drawing Title
Identification of Asbestos in Soil Samples with Clean Cover System

Scale at A3
1:1,900

Arup Job No
282022-00

Suitability
Issue

Name
Drawing 22

Rev
P1

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