LAND AT BLACKLEY MERE LOWER MANCHESTER

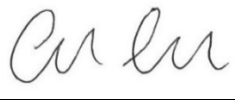
GEO-ENVIRONMENTAL INVESTIGATION

Job Number: LKC 17 1257
Date: May 2019
Client: Blackley Developments Ltd



INCREASING LAND VALUE

LK GROUP

LK Consult Document Verification			
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1 Introduction

1.1 Background

LK Consult Ltd (LKC) has been commissioned by Blackley Developments Ltd to carry out a Geo-Environmental Investigation for land at Blackley Mere Lower, Manchester.

The following work has previously been undertaken:

- Phase 1 and Phase 2 Geo-Environmental Site Assessment, undertaken by E3P (ref: 11-164-R1, dated October 2016).
- Ground Gas Addendum Report, undertaken by E3P (ref: 11-164-R2, dated 20th April 2017).
- Remediation Report, undertaken by Salford Excavations Ltd (no reference or date supplied).

The site currently comprises two parcels of vacant land with stockpiles of material across the east of the site and former reservoirs in the west of the site. The site slopes down towards the east with a significant difference in site levels between the far west (*c*. 6-7m higher in elevation) and far east of the site.

The end use is to develop residential properties with associated gardens, car parking and areas of soft landscaping on the site. In order to provide a development platform the site requires a substantial material import to achieve the increase in levels.

An investigation was required in order to provide contamination, waste acceptance criteria and grading testing for material that has been stockpiled in the east of the site in order to demonstrate it is suitable for use in the required level raising exercise.

1.2 Site Details

A summary of the site details is presented in Table 1-1. Figure 1 indicates the site location.

Location	Site is located south of Blackley New Road, north east of Bowker Bank Avenue, Blackley, Manchester National Grid Reference 383980E 403010N.
Topography	56-63 metres above ordnance datum (AOD) (northern extent). The site slopes moderately down towards the east.
Land Use	Site The site is split into two areas with the eastern area a former industrial site which is now vacant and stockpiled with material. The western area of site comprises an infilled reservoir. Surrounding Area North: River Irk and residential properties. East: River Irk and woodland. South: Woodland, railway line and residential properties. West: Reservoir, woodland and residential properties.
Proposed Development	Residential properties and associated gardens.

Table 1-1: Summary of site details.

2 Previous Work

2.1 Summary of Existing Information

A Phase 1 and Phase 2 Geo-Environmental Site Assessment (ref: 11-164-R1, dated October 2016) and Ground Gas Addendum Report (ref: 11-164-R2, dated 20th April 2017) have previously been undertaken by E3P and is summarised in Section 2.2-2.3.

2.2 Site History and Environmental Setting

The below information has been taken directly from the E3P site assessment.

EXECUTIVE SUMMARY		
Site Address	Blackley Mere, Bowker Bank Avenue, Manchester M8 4LL	
Grid Reference	E 383980, N 403010	
Site Area	3.16 Ha	
Current Site Use	The site is an irregular shaped parcel of land located off Bowker Bank Avenue, Blackley approximately 4km north of Manchester City Centre. The site comprises two distinct sectors; the western portion predominantly occupied by a drained reservoir basin which sits c. 4-5m higher in elevation than the eastern sector which comprises a concrete slab associated with the former site works.	
Proposed Development	E3P understands that site will be developed with the construction of 76 No. dwellings with associated access and estate roads, driveways, garden and landscaped areas and adopted utility infrastructure.	
Previous Reports	E3P has not been provided with any previous reports for the site.	
Environmental Setting	*Drift Geology*	West - Glacial Till (Clay) East - Alluvium (Sand & Gravel)
	Bedrock Geology	Cheshire Pebble Beds Formation (Sandstone).
	Hydrogeology	Unproductive (west) / Secondary A (east) overlying Principal Aquifer (bedrock).
	Groundwater Source Protection	The site is not located within a Groundwater Source Protection Zone or Drinking Water Safeguard Zone.
	Hydrology	The River Irk lies downgradient immediately adjacent to the north and eastern site boundary.
	Flood Risk	The SE sector if affected by flooding from rivers (FZ3). Remaining area unaffected by flooding (FZ1).
	Ecology	Potential risk to ecological and aquatic ecosystems within River Irk.
	Sensitive Land Uses	The River Irk is considered a critical receptor.
	Industrial Land Use	No industrial land uses identified on-site or the immediate locality that may potentially prejudice the future development of the site for residential use.
	Subsidence Hazard	Moderate compressible ground hazard to the NE; Moderate landslide hazard to the SE.
Site History	A review of the pertinent Ordnance Survey mapping dating from late 1850s confirms the presence of the reservoir and print works which later became a bleach works and more recently a textile works.	
Utility Locations	A review of service plans has indicated that drainage infrastructure is present within Bowker Bank Avenue to the west.	
Landfill Sites & Ground Gases	A historic landfill site is located to the northeast of the site on the opposite side of the River Irk. Made Ground associated with the landfill to the NE and in-filled reservoirs on-site may be a sources of hazardous ground gas and may pose a low-level risk to construction workers and residential end users.	
Radon	Unaffected – No special precautions required.	
Coal Mining / Land Stability	The site is not located within an area deemed to be at risk from ground instability arising from historic coal mining activities.	

2.3 E3P Intrusive Ground Investigation

The below information has been taken directly from the E3P site assessment.

Ground Conditions	E3P completed a Ground Investigation comprising 12 No. Window Sample Probeholes and 25 No. mechanically excavated Trial Pits. The ground conditions encountered are summarised below: **Topsoil** A 250mm horizon of gravelly SILT (Topsoil) was encountered at TP114. **Made Ground** Made Ground was encountered within all exploratory locations to a maximum proven depth of 3.45m bgl (WS112) underlying the former bleach works, although generally to depths in excess of 1.0m bgl across the wider site. Made Ground deposits were generally uniform and comprised a silty and/or sandy gravel of concrete, brick, ash, mudstone, sandstone, slate, plastic, timber and metal believed to be associated with historic fill material resulting from construction and demolition activities. Localised discontinuous sandy and/or gravelly clay soils and reworked sand were recorded. **Drift** Drift deposits were encountered within all exploratory hole locations where the Made Ground could be fully penetrated to a proven depth of 5.45m bgl and generally comprised a silty and/gravelly dense SAND with localised areas of sandy SILT within the eastern portion in close proximity to the River Irk. A number of stiff to very stiff medium to high strength gravelly CLAY bands were recorded underlying the Made Ground soils, typically across the central portion of the site. **Solid** No solid geology was encountered as part of the site investigation. **Groundwater** Groundwater has been recorded at depths of 0.50-3.50m bgl; generally shallower in close proximity to the River Irk.
Human Health	The preliminary Tier I Human Health risk assessment has identified the presence of site wide elevated heavy metals, non-volatile PAHs / TPH compounds and asbestos within the Made Ground soils. Asbestos has been identified within the shallow Made Ground, and as such it will be necessary to carefully manage these impacted soils and place them in a legislatively complaint manner that will negate any possibility of future exposure. External areas will be covered by hard-standing or a chemically suitable cover system within all private garden and landscaped areas thereby removing the exposure pathway to future site users. It is possible that as yet unidentified hydrocarbon impact is present within localised hotspots underlying the existing structures and location of former tanks. It is considered that any such contamination could be addressed by the delineation, excavation and treatment of impacted soils.
Controlled Waters	Given the absence of any elevated soluble contaminants within the groundwater or River Irk and thus a complete pollutant linkage the site is not deemed to pose a significant degree of risk to controlled waters.

Ground Gas	Ground gas monitoring to date (ongoing) indicates the site falls into classification Characteristic Situation 2 / Amber 1 due to elevated carbon dioxide concentrations and special precautions will be required as part of the residential development.
Radon	Unaffected – No special protection measures required.
Potable Water Infrastructure	It is considered that a well designed and implemented programme of remediation and enabling works should negate the need for contaminant resistant infrastructure. A full UKWIR assessment will be required.
Geotechnical Assessment	
Underground Obstructions	Extensive buried obstructions have been encountered and the presence of further relict foundations is anticipated. These features pose a constraint and will require grubbing out in their entirety as part of the proposed residential development to facilitate the construction of a suitable development platform.
Allowable Bearing Pressure (ABP)	It is anticipated that on completion of the proposed site remediation and enabling works, the ground will generally comprise circa 2.00-3.00m of variable Made Ground. The Made Ground is not considered suitable founding stratum (in its current condition) due to its inherent variability and unquantifiable potential for long term total and differential settlement. The natural stiff to very stiff medium-high strength gravelly CLAY and loose to medium dense SAND have been assessed and at a depth of between 3.00-5.45m bgl a variable ABP of between 50-190kN/m² can be achieved.
Foundation Options	The presence of variable Made Ground and localised very loose sands within the near surface drift deposits to depths of ~3.0m would indicate that (based on current elevations) the depth to competent founding stratum would preclude the use of a traditional spread (strip / trench fill) type foundation. It is therefore recommended that due consideration be given to the use of vibro replacement stone columns or a piled foundation capable of transferring structural loads to competent stratum. However, the final foundation solution will be dependent on the structural loadings and elevation and should be designed by a suitably qualified structural engineer.
Building Floor Slabs	Ground bearing floor slabs are not viable given the depth of Made Ground and compressible alluvial deposits.
Heave Precautions	Given the localised underlying clay is of low plasticity and low volume change potential, heave precautions will not be required to the internal face of a foundation. However, heave precautions will be required to the underside of floor slabs (where there is no 200mm void) or ground beams within the modelled influencing distance of trees.
Soakaway Drainage	The underlying predominantly granular drift deposits are likely to provide the required degree of infiltration to make soak-away drainage infrastructure viable on this site. However full BRE 365 test will be required if the use of soak-away drainage is considered.
Sulphate Assessment	This site meets Class DS-1 and (ACEC) AC-1s. However, localised areas which meet Class DS-2 and (ACEC) AC-2s have been encountered.

2.4 Material Source

Information pertaining to the source and volume of the stockpiled materials was collated by the client. This included source site addresses, supporting ground investigation reports and consignment notes.

CBR Design %	It is considered that the shallow Made Ground soils can be re-engineered in accordance with Class 1 (a-c) material under favourable climatic conditions to achieve a CBR of 2-4%. Where compressible ground is present to the northeast of the site, beneath proposed roads, adopted drainage infrastructure, driveways and hard stand consideration must be given to the potential for consolidation which will induce unacceptable degrees of total and differential settlement at the surface. It is therefore likely that the compressible alluvial deposits will need to be excavated where present beneath proposed infrastructure.
Cut / Fill	Development levels unknown at this time, however due to significant elevation changes between the eastern and western sector, a substantial cut / fill exercise will be required in order to create a suitable graded development platform for the proposed residential development.
Waste Characterisation	Stable Non-Reactive - Non-Hazardous / Inert; and ACM may be Hazardous (depending on quantification analysis).
Invasive Plants	Extensive infestations of Japanese Knotweed are present at the site boundaries with the adjacent river. A programme of treatment, eradication and continued control will need to be established prior to the commencement of any works in this area. All invasive plant species should be fenced at the first available opportunity.
Recommendations	Based on the findings of the intrusive site investigation, the following additional works are recommended to be completed in due course: • Specification for the eradication of invasive plants and long term maintenance; • Further assessment for Sodium Hypochlorite and SVOCs within footprint of former the bleach works (post sub-structure demolition); • Further assessment for PCBs in proximity to electrical substation (post demolition); • Remediation & Enabling Works Strategy; • Arboriculture Survey; • Plot Specific Foundation Schedule (upon receipt FFLs); • Geotechnical Earthworks Compaction Specification (Infrastructure); • Foundations to be designed by suitably qualified Structural Engineer.

3 Ground Investigation

3.1 Site Investigation Design and Methodology

In order to characterise the material earmarked for level raising, sampling of the stockpiled material was undertaken.

The investigation was carried out on 21st and 26th March 2018 and comprised the following:

- 31no. trial pits (using 13t tracked machine) excavated to depths of 2.00-4.70m from the top of the stockpiles (ref. TP101 to TP131). The trial pits were extended thorough the height of the stockpiles in order to characterise the material.

Sampling locations are illustrated in Figure 2. The sampling frequency was approximately 1 sample per 1,000m^3 of material.

3.2 Sampling Protocol

3.2.1 Soil Sampling (Contamination)

Standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation[1].

Soil samples of approximately 500g were recovered in amber jars, amber vials for volatile analysis and plastic tubs. All the samples were labelled and stored in cool boxes prior to being collected by courier at the end of the day for delivery to the Chemtest laboratory in Newmarket for chemical testing. Samples were tracked using appropriate Chain of Custody forms provided by Chemtest.

Many of the contamination tests are UKAS or MCERTS accredited and further details are given in the Certificate of Analysis presented in Appendix A.

Samples are labelled according to the trial pit they were sampled from e.g. sample S101 taken from TP101.

The sampling suites for the samples was determined with recourse to the available site investigation reports from the material source sites.

[1] EA (2000). "Technical Aspects of Site Investigation. Volumes 1 & 2 Text Supplements Research and Development Technical Report." P5-065/Tr.

Suites and Contaminants	No. Samples	Location & Depth			Justification
Metals / metalloids, pH, water soluble sulphate, cyanide suite, phenol, TPHCWG, BTEX, MTBE, speciated PAHs, SOM and asbestos screen.	30	S101 S102 S103 S104 S105 S106 S107 S108 S109 S110	S111 S112 S113 S114 S115 S116 S117 S118 S119 S121	S122 S123 S124 S125 S126 S127 S128 S129 S130 S131	Detailed suite undertaken to allow waste characterisation and human health risk assessment to be undertaken.
Metals / metalloids, pH, water soluble sulphate, cyanide suite, phenol, TPHCWG, BTEX, MTBE, speciated PAHs, VOCs, SVOCs, SOM and asbestos screen.	1	S120			Although no significant evidence of VOC/SVOCs, a more detailed suite undertaken on S120 due to the presence of strong organic and putrid odours from the material in TP120.

Table 3-1: Summary of soil sample testing undertaken.

Suites and Contaminants	No. Samples	Location & Depth	Justification
Waste Acceptance Criteria (WAC)	13	S102 S104 S107 S110 S113 S115 S117 S120 S122 S124 S126 S128 S130	WAC testing undertaken to further characterise the material.

Table 3-1 (continued): Summary of soil sample testing undertaken.

Notes:
If asbestos present during screen identification and quantification will be undertaken.
Metal/metalloids=arsenic, cadmium, chromium, (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc and boron; TPHCWG=carbon banded and aromatic/aliphatic split petroleum hydrocarbons; PAH=polycyclic aromatic hydrocarbons, BTEX=benzene, toluene, ethylbenzene and xylenes; MTBE=Methyl tert-butyl ether, SOM=Soil Organic Matter.

3.2.2 Soil Sampling (Contamination)

Leaching tests were carried out on a number of samples across the site to further characterise the material. Sampling was carried out in accordance with BS5930[2] and BS5667-11[3].

[2] British Standard (2015). "Code of Practice for Ground Investigations". BS5930:2015.
[3] British Standard (2009). "Water Quality – Sampling. Part 11: Guidance on Sampling of Groundwaters". BS ISO 5667-11:2009.

Suites and Contaminants	No. Samples	Location & Depth		Justification
Metals / metalloids, pH, sulphate, cyanide suite, TPHCWG, BTEX, MTBE, speciated PAHs, phenol and hardness.	16	S101 S103 S105 S106 S108 S109 S111 S112	S114 S116 S118 S119 S121 S123 S125 S127	Detailed suite undertaken randomly across the site to confirm the presence / absence of contamination and to allow a controlled waters risk assessment to be undertaken.

Table 3-2: Summary of leachate sampling tests undertaken.
Notes:

Metal/metalloids=arsenic, cadmium, chromium, (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc and boron; TPHCWG=carbon banded and aromatic/aliphatic split petroleum hydrocarbons; PAH=polycyclic aromatic hydrocarbons, BTEX=benzene, toluene, ethylbenzene and xylenes; MTBE=Methyl tert-butyl ether.

3.3 Geotechnical Testing

Bulk samples of the material were collected and subjected to Particle Size Distribution (PSDs) tests by Murray Rix of Stockport.

Full results are presented in Appendix B and summarised in Section 5.

4 Ground Conditions

A summary section of the logs is provided in Plate 4-1, with additional comments below.

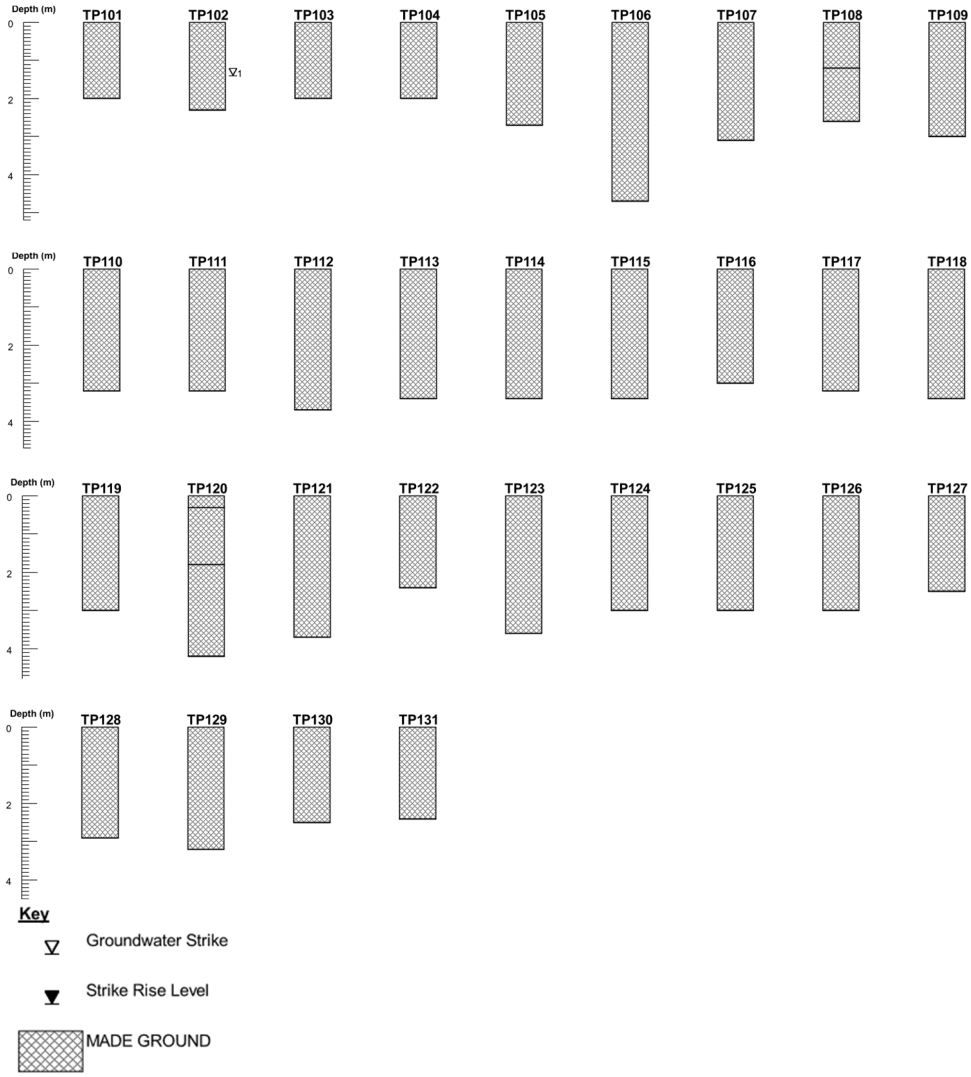


Plate 4-1: Summary of ground conditions.

Stockpiled material generally comprised gravelly sandy clay / gravelly clayey sand with brick and concrete from gravel to cobble size and inclusions of waste wrappers, ash, clinker, metal and ceramics. Exceptions to this were:

- TP108 comprised a clayey topsoil to 1.2m depth onto clay material.
- TP120 comprised a gravelly clayey sand made ground to 0.30m depth onto a sandy gravel made ground with abundant waste material and a strong organic / putrid odour to 1.80m depthl, onto a gravelly sandy clay made ground.

A pocket of water was identified in TP102 at a depth of 1.4m.

Profile logs are provided in Appendix C.

5 Geotechnical Assessment

5.1.1 Particle Size Distribution

Particle Size Distribution tests were carried out on a number of samples and the results are summarised in Table 5-1.

Location	Material	Percent passing through sieve		
		63mm	2mm	0.063mm
S101	Fill	79	40	12
S103	Fill	67	30	7
S105	Fill	88	47	19
S106	Fill	84	34	16
S109	Fill	80	39	11
S111	Fill	79	32	8
S112	Fill	79	35	14
S114	Fill	89	45	19
S116	Fill	81	42	14
S118	Fill	84	49	16
S119	Fill	76	26	10
S120	Fill	78	36	18
S121	Fill	98	43	18
S122	Fill	90	46	22
S123	Fill	94	43	21
S124	Fill	99	53	23
S125	Fill	84	33	14
S126	Fill	81	34	12
S127	Fill	86	42	17
S128	Fill	84	36	18
S129	Fill	99	49	23
S130	Fill	98	51	25
S131	Fill	80	39	22

Table 5-1: Summary of particle size distribution results.
Notes:
% passing: 63mm = cobble / gravel boundary; 2mm = gravel / sand boundary; 0.063mm = sand / silt boundary

The laboratory also provided a grading of each sample with recourse to the Specification for Highway Works Series 600[4]. The grading specification of each location is summarised in Table 5-2.

[4] Highways England (2009) "Manual of Contract Documents for Highway Works, Volume 1 Specification For Highway Works" Series 600, Table 6-1.

Sample	Grading Specification	General Material Description	Typical Use
S101	1A	Well graded granular material	General Fill
S103	6F2	Selected granular material (coarse grading)	Capping
S105	2C	Stony cohesive material	General Fill
S106	2C	Stony cohesive material	General Fill
S109	1A	Well graded granular material	General Fill
S111	6F2	Selected granular material (coarse grading)	Capping
S112	1A	Well graded granular material	General Fill
S114	2C	Stony cohesive material	General Fill
S116	1A	Well graded granular material	General Fill
S118	2C	Stony cohesive material	General Fill
S119	6F2	Selected granular material (coarse grading)	Capping
S120	2C	Stony cohesive material	General Fill
S121	2C	Stony cohesive material	General Fill
S122	2C	Stony cohesive material	General Fill
S123	2C	Stony cohesive material	General Fill
S124	2C	Stony cohesive material	General Fill
S125	1A	Well graded granular material	General Fill
S126	1A	Well graded granular material	General Fill
S127	2C	Stony cohesive material	General Fill
S128	2C	Stony cohesive material	General Fill
S129	2C	Stony cohesive material	General Fill
S130	2C	Stony cohesive material	General Fill
S131	2C	Stony cohesive material	General Fill

Table 5-2: Summary of grading specification.

The grading tests indicate the majority of samples were cohesive in nature with stockpiles and sources of granular material present.

The results should be used by the earthworks contractor to provide an earthworks specification to place the material in the proposed level raising works.

This should include a placement and compaction specification, modification where required and validation criteria.

5.1.2 Sulphate and pH

Water soluble sulphate and pH tests were carried out on soil samples. Full results are presented in Appendix A and summarised in Table 5-3.

Strata	pH	Sulphate (g/l)
Made Ground	7.6-10.1	0.061-1.5

Table 5-3: Summary of pH and sulphate results.

6 Generic Risk Assessment

6.1 Introduction

Current good practice requires that the findings from a site investigation should be evaluated on a site-specific basis, using a risk-based approach. Risk assessment involves identification and evaluation of the hazards presented by the concentrations of contaminants measured followed by an evaluation of the risks which are associated with these hazards (CLR11[5]).

6.2 Soil Risk Assessment

6.2.1 Methodology

With regards to the soil risk assessment LKC will use the following hierarchy:

- Category 4 Screening Levels (C4SLs).
- LQM Suitable 4 Use Levels (S4ULs).
- ATRISK Soil Screening Values (SSVs) and CL:AIRE Generic Assessment Criteria (GACs).

C4SLs were published in 2013[6,7]. The change to the contaminated land guidance has changed the evaluation of risk from 'minimal' (referred to as Health Criteria values (HCVs))[8] used to generate Soil Guideline Values (SGVs) to 'low' (referred to as Lowest Level of Toxicological Concern (LLTCs)). The policy companion document and supporting letter by Defra, dated 3rd September 2014, states that C4SLs *'could be used under the planning regime, as well as within Part 2A'.* Based on these comments LKC considers the justifications and assumptions used to generate 'low' risk are suitable for the planning regime.

Where no C4SLs have been generated LKC will use the LQM S4ULs[9]. Similar assumptions and land uses to C4SLs have been used. However, toxicological information has been based on 'minimal risk' as per previous guidelines and assumptions[10,11,12,13].

If contaminants are not present as C4SLs and S4ULs then LKC will use ATRISK SSVs or CL:AIRE GACs[14]. These follow the 'minimal' risk principle and more stringent exposure parameters and will be conservative.

LKC consider the main risk drivers for PAHs are benzo(a)pyrene (B(a)P) and naphthalene. This is due to B(a)P possibly being a carcinogen and most toxic of the

[5] EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.
[6] Defra (2014). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Policy Companion Document."
[7] CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."
[8] EA (2008). "Human Health Toxicological Assessment of Contaminants in Soils." Science Report – SC050021/SR2.
[9] LQM (2014). "The LQM/CIEH S4ULs for Human Health Risk Assessment."
[10] EA (2008). "Updated Technical Background to the CLEA Model." Science Report – SC050021/SR3.
[11] EA (2008). "Human Health Toxicological Assessment of Contaminants in Soils." Science Report – SC050021/SR2.
[12] EA (2008). "A Review of Body Weight and Height Data used within the Contaminated Land Exposure Assessment Model (CLEA)." Project SC050021/Technical Review 1.
[13] EA (2009). "Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values." Science report SC050021/SR7.
[14] CL:AIRE (2009). "The Soil Generic Assessment Criteria for Human Health Risk Assessment."

PAHs[15,16] and naphthalene the most volatile and soluble[17]. The new C4SLs indicate B(a)P as a surrogate marker for carcinogenic PAHs, if it falls within appropriate limits, since the risk from other non-carcinogenic PAHs are considered negligible[18]. For B(a)P to be used as a surrogate marker it should follow the profile described by the HPA (2008)[19] and CL:AIRE (2013). Naphthalene will be treated separately using the LQM S4ULs.

The proposed future development is for residential houses with gardens, therefore the assessment criteria for residential with plant uptake has been used.

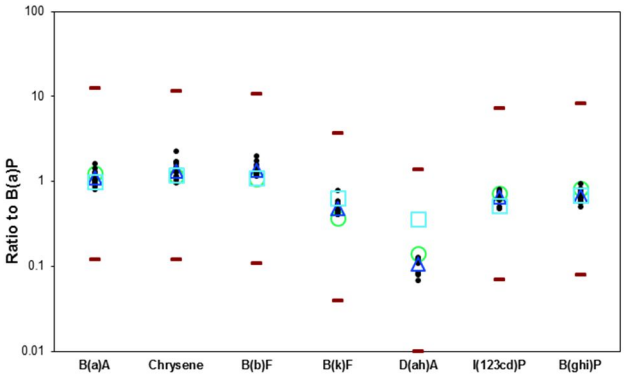
All criteria have been generated using the CLEA V1.06 model[20] based either on 1%, 2.5% and 6% Soil Organic matter (SOM). Results will be compared to the nearest appropriate SOM.

A summary of the generic assessment criteria is provided in Appendix D. ATRISK SSVs and CL:AIRE GACs were not required for this dataset and have not been included.

B(a)P as Surrogate Marker

Based on the above assumption for PAHs, LKC undertook an assessment of the data for the site with regards to using B(a)P as a surrogate marker for carcinogenic PAHs as per HPA and CL:AIRE guidelines. The primary toxicological study related to Culp *et.al*[21], which was based on coal tar mixtures (>80,000mg/kg of total PAHs) fed in food to mice over a two-year carcinogenicity study.

Graph 6-1 summarises the study site data with respect to how the ratios of carcinogenic PAHs relate to B(a)P, within the confidence limits provided in the HPA document.



Graph 6-1: The ratio of PAH to B(a)P in soil for all available data at the site based on 30 samples (where values were >LOD to allow the calculation of a ratio).

[15] EA (2002). "Contaminants in Soils: Collation of Toxicological Data and Intake Values for Humans. Benzo[a]pyrene." R&D Publication TOX2.
[16] USEPA (1984). "Health Effects Assessment of Polycyclic Aromatic Hydrocarbons (PAHs). EPA 540/1-86-013."
[17] EA (2003). "Review of the Fate and Transport of Selected Contaminants in the Soil Environment." Draft technical report P5- 079/TR1.
[18] CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."
[19] HPA (2010). "HPA Contaminated Land Information Sheet: Risk Assessment Approaches for Polycyclic Aromatic Hydrocarbons (PAHs)." Version 3.
[20] EA (2008). "CLEA Software (Version 1.05) Handbook." Science Report – SC050021/SR4.
[21] Culp, S; Gaylor, D; Sheldon, W; Goldstein, L and Beland, F (1998). " A Comparison of Tumours Induced by Coal Tar and Benzo-a-pyrene in a 2-Year Bioassay." Carcinogenesis. **Vol 19**, no. 1, pp. 117-124.

Notes:
B(a)P = Benzo(a)pyrene; D(ah)A = Dibenzo(ah)anthracene; B(a)A = Benzo(a)anthracene; B(b)F = Benzo(b)fluoranthene;
B(k)F = benzo(k)fluoranthene; I(123cd)P = Indeno(123cd)pyrene; B(ghi)P = Benzo(ghi)perylene
● = Ratio to B(a)P for all data ○ = Mean ratio to B(a)P for Culp data △ = Mean ratio to B(a)P from all data at the site
□ = Mean ratio to B(a)P for UK data presented by HPA ▬ = Upper and Lower limits (order of magnitude from Culp data)

All the data points that could be used to calculate ratios fall inside the upper or lower limits.

Based on this distribution of data LKC considers B(a)P can be used as a surrogate marker for carcinogenic PAHs and the C4SL criteria is suitable for this dataset.

6.2.2 Soil Results Comparison against Assessment Criteria

All analysis sheets are presented in Appendix A. Elevated and pertinent results are presented in Table 6-1.

Contaminant	Units	No. of samples	Elevated Results	Sample Location	Criteria (1%/2.5%/6%)	Source of Criteria
Metals						
Arsenic	mg/kg	31	61	S104	37	C4SLs
			71	S108		
			46	S125		
Lead	mg/kg	31	320	S103	200	C4SLs
			560	S104		
			490	S108		
PAHs						
Benzo(a)pyrene	mg/kg	30	8.2	S108	5	C4SL
			6.4	S109		
			24	S110		
			15	S118		
			7.8	S119		
			5.5	S121		
			20	S125		
			45	S126		
			6.7	S128		
Naphthalene	mg/kg	30	16	S126	13	S4UL
GENERAL						
pH	pH	31	Range 7.6 to 10.1			
SOM	%	31	Range 1.7 t 17			
Asbestos	N/A	31	Detected (see Table 6-2)			

Table 6-1: Summary of elevated and pertinent analytical results.
Notes:
Only results that exceeded assessment criteria have been shown and results from **all depths** are noted.
Results have been compared to the nearest appropriate SOM.

Asbestos containing material was identified, as detailed in Table 6-2.

Sample Location	ID	Type
S104	Chrysotile	Fibres / Clumps

Table 6-2: Details of asbestos identified.

Elevated results in relation to a residential with plant uptake land use have been identified for TP103, TP104, TP108, TP109, TP110, TP118, TP119, TP121, TP125, TP126 and TP128.

6.2.3 Direct Contact Risk

Metals and PAHs

Elevated PAHs and metals (arsenic and lead) have been identified in stockpiles on site, given the number and location of elevated samples, the contamination is considered to be prevalent across the stockpiles.

The source of the contamination is expected to the ash and clinker noted in the made ground.

At the concentrations identified, the contaminants are considered to pose a potential risk to future site users (residents) in private gardens and soft landscaped areas, where made ground may be exposed / in contact with vegetables. The principal pathways are the ingestion pathways (soil, dust and vegetables) and dermal contact.

The probability of PAH and metal contamination affecting future site users is likely. With a medium consequence, the risk is considered to be moderate and remediation is recommended.

Asbestos

Asbestos (Chrysotile) was identified in TP104. The asbestos was identified as fibres / clumps and the source is likely to be demolition material that has become mixed with the stockpiles of waste.

Given the size of the site and the number of samples containing asbestos (1 out of 31 samples), these samples are expected to be relatively limited / localised.

Asbestos may affect future site users in soft landscaping and garden areas in the localised area around TP104, via the inhalation of fibres. The probability is considered to be likely. With a severe consequence the risk is assumed to be high and localised remediation is recommended.

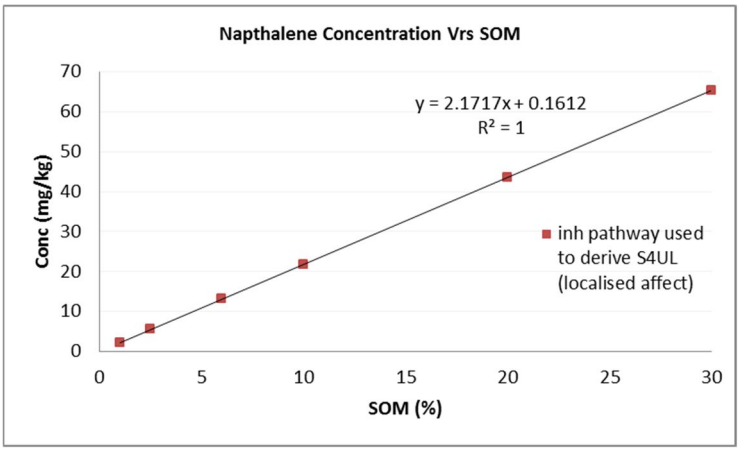
Additional consideration should also be given to the risk to workers and offsite receptors during groundworks and construction.

Notwithstanding the above, it should be noted that the results are within or below the contamination levels previously identified on site in the previous site investigation. In particular asbestos in soil was more widespread in the existing site soils. Therefore the proposed remedial works for human health remediation post development and for control measures to mitigate risk to site workers and adjacent receptors during enabling and remediation works shall remain appropriate for these soils.

6.2.4 Risk from Inhalation of Vapours

Naphthalene was elevated in TP126 at a concentration of 16mg/kg This sample had a Soil Organic Matter (SOM) content of 9.1% whereas the assessment criteria is based upon 6% SOM.

There is a linear relation (r^2=1) between Naphthalene and SOM concentrations (see Graph 6-2).



Graph 6-2: Naphthalene vs. SOM

The modified assessment criterion for naphthalene at 9.1% SOM is calculated as 19.92mg/kg, when using the above formula. The sample result from TP126 is below this modified criterion value.

The above assessment the material present is considered to present an unlikely probability of volatile contamination posing a risk to site users. Assuming a medium consequence, gives a low risk and remediation is not required.

6.2.5 Risk from Hazardous Gas

On a qualitative basis, the infilling of c. 6-7m of made ground would require a gas risk assessment either by installation of boreholes or an assessment using a technique such as RB17[22] or by the installation of appropriately designed and justified precautionary gas protection measures.

The existing investigation recommends Characteristic 2 / Amber 1[23,24] protection measures. This would comprise a piled foundation with a passively ventilated subfloor void and a proprietary gas membrane.

The stockpiled material (with the exception of TP120) did not contain significant quantities of organic or putrescible material which may be expected to be a significant source of hazardous gas.

Notwithstanding this, LKC note that the WAC testing has identified sporadic exceedances of the sulphate and total organic carbon above the inert waste landfill criteria. LKC understand that these criteria values were set in order to prevent the risk of sulphate (such as gypsum in plasterboard) reacting with organic matter to create hydrogen sulphide gas.

LKC consider that the existing proposed gas protection recommendations are likely to be appropriate for this site; however, it is recommended that this is confirmed with gas monitoring following appropriate placement and compaction of the material. This

[22] CL:AIRE Research Bulletin 17. "A Pragmatic Approach to Ground Gas Risk Assessment". November 2012.
[23] CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings." CIRIA C665
[24] BSI (2015). "Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for new buildings." BS8485:2015.

monitoring will also determine if hydrogen sulphide is being generated by the placed material and any control measures that may be required in construction works.

6.2.6 *Risk to Controlled Waters*

The previous investigation report indicates an unproductive (west) and Secondary A (east) Aquifer overlying a Principal Aquifer. In addition, the River Irk is present adjacent to the northern and eastern site boundaries. No nearby groundwater abstractions have been indicated.

The previous investigation determined that as no elevated soluble contaminants were present within samples of groundwater or the River Irk that the site did not "pose a significant degree of risk to controlled waters".

LKC considers the River Irk as the primary receptor. The Secondary A and Principal Aquifers are also considered viable receptors.

No evidence of significant mobile contaminants was identified in the stockpiled materials.

LKC have compared the leaching test results above Limits of Detection (LOD). Where relevant the review of priority substances take precedence considering threshold values for groundwater cannot be used '*as part of site specific investigations*'. The hierarchy is as follows:

- River Basin District Standards[25] and updated Water Framework Directive[26] for Annual Average / Maximum Allowable Concentration Environmental Quality Standards (AA-MAC-EQS) for priority substances (surface water risk).
- 2001 Environment Agency Values for Environmental Quality Standards (EQS) and UK Drinking Water Standard (UKDWS)[27].
- 2009 UK Drinking Water Standard (UKDWS)[28].
- Surface Water Abstraction Directive (SWAD)[29] based on A2 treatment (TPH only).
- Resource Protection Values (RPVs)[30].
- Minimal Reporting Values (MRVs).

The SWAD criteria are considered appropriate for TPH and would be more realistic criteria than UKDWS. For example the UKDWS for hydrocarbons (dissolved/emulsified) is 10μg/l, whereas it would be 200μg/l using SWAD for normal physical/chemical treatment (A2 treatment). This standard has been repealed in 2007[31], but values have not been replaced currently in the Water Framework Directive. A recent document by the EA on risk from petroleum hydrocarbons in groundwater[32] has not derived EQS values for emulsified hydrocarbons but state that it must not form distinctive films or produce harmful effect to fish. It is understood that the EA are working on providing guideline values for individual carbon bands. Until this has

[25] Defra (2010). "The River Basin Districts Typology, Standards and Groundwater Threshold Values". Water Framework Directive (England and Wales) Directions 2010.
[26] Defra (2015). " Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015".
[27] EA (2002). "Environment Agency technical advice to third parties on Pollution of Controlled Waters for Part IIA of the Environment Protection Act 1990."
[28] Statutory Instruments (2009). "The Private Water Supplies Regulation 2009." No. 3101
[29] Surface Water Directive (EC 75/440/EEC); Water Supply (Water Quality) Regulations 1989, as modified.
[30] SEPA (2010). "Assigning Groundwater Assessment Criteria for Pollutant Inputs." WAT-PS-10-01.
[31] DWI (2008). "The 2009 Periodic Review of Prices – Guidance on Drinking Water Quality Requirements."
[32] EA (2009). "Petroleum Hydrocarbons in Groundwater: Supplementary Guidance for Hydrological Risk Assessment."

occurred LKC considers the use of SWAD to be still acceptable for TPH for surface waters.

The risk from List 2 compound (EC Dangerous Substance Directive 76/464/EEC) in a freshwater ecosystem is governed by the hardness of the water. Where applicable the hardness was taken into account for these contaminants.

Additionally to run the M-BAT[33] model to take into account bioaccessibility of copper, zinc and nickel the Dissolved Oxygen Concentration (DOC), pH and calcium concentrations will be used.

In total 16 leaching tests were undertaken. With regards to inorganic contaminants elevated concentrations of chromium (5 samples), copper (16 samples), lead (3 samples), nickel (2 samples), zinc (11 samples) and sulphate (6 samples) were encountered.

The leachate testing data included Total Organic Carbon (TOC). This data was included in the M-BAT model (Appendix E) in the absence of DOC data. This is a highly conservative approach as the TOC values used were often above the upper limit of the validated DOC range within the model.

Moreover, leachate testing is aggressive (de-ionised water) and is not in aqueous equilibrium (steady state) with the solid sample. This may cause rapid dissolution and overestimation of the aqueous phase concentrations compared to groundwater in contact with contaminated soils. Although dissolution may be reduced for highly hydrophobic contaminants[34], such as B(a)P it is likely that the initial leaching will remove the most readily available hydrocarbons and subsequent flushing would reduce the leachable concentrations[35]. Traditionally the leaching test was developed for inorganic constituents and the leaching of organics is poorly understood[36].

With regards to organic contaminants elevated concentrations of heavy end aromatic petroleum hydrocarbons were encountered 5 samples.

These exceedances are above theoretical solubility limits[37] and suggest free product. However, no visual or olfactory evidence of such was noted in the soils.

These high concentrations are likely related to be weathered congealed hydrocarbon globules and/or hydrocarbon film around grains and colloids, which is picked up as a spike by the GC-machine. This then may not be a true residual or dissolved phase. It is known that heavy end hydrocarbons are considered recalcitrant and hydrophobic in behaviour[38,39].

The clay present below much of the site and above the Principal Aquifer should significantly reduce any sub-surface migration and processes include dilution,

[33] WFD (2014). "UKTAG River & Lake Assessment Method Specific Pollutants (Metal): Metal Bioavailability Assessment Tool (M-BAT)." Water Framework Directive.
[34] EA (1999)."Methodology for the Derivation of Remedial Targets for the Soil and Groundwater to Protect Water Resources." R&D Technical Report, P20
[35] EA (2006)."Remedial targets Methodology: Hydrological Risk Assessment for Land Contamination."
[36] EA (2009). "Petroleum Hydrocarbons in Groundwater: Supplementary Guidance for Hydrological Risk Assessment."
[37] TPHCWG (1999). "Human Health Risk-Based Evaluation of Petroleum Release Sites: Implementing the Working Group Approach: Volume 5."
[38] Shedeh, J. (2009). "Characteristics of removal of hydrophobic organic carbons from sand / mulch using non ionic surfactants". Land Contamination and Reclamation, 17 (2) 2009.
[39] EA (2009). "Petroleum Hydrocarbons in Groundwater: Supplementary Guidance for hydrological Risk Assessment."

attenuation and biodegradation will reduce the concentrations of any contamination leaching from the material.

The material will be placed above existing ground levels for the creation of a development platform. Leaching tests (which are likely to be overly conservative and not representative of real world conditions) may overestimate the risk to Controlled Waters.

Post development rainfall may infiltrate the placed material and leach contaminants out of the placed soil prior to migrating to the receptors – key receptor being the River Irk.

In mitigation, the soil will not be placed below the water table and as such any infiltration will be in contact with the soil for a shorter length of time than would be the case of groundwater if the material was buried. On this basis the leaching test is considered to be highly conservative of this site scenario and not representative of leaching by longer short term rainfall infiltration.

The potential infiltration from rainfall will be also managed in the development by the surface water drainage strategy and the proposed development drainage infrastructure. Not all rainfall on site will be able to directly infiltrate site soils due to the presence of hard cover. This may comprise 55% of the development area.

It is not considered best practice to construct surface water soakaways within made ground where contaminants may be mobilised, so it is likely that for the purposes of the built development area (roofs, roads and driveways) that surface water (rainfall) will be collected by the site drainage and disposed of by methods other than infiltration directly into the placed material. This could be *inter alia* direct to the River Irk following a level of treatment or "polishing", or via deeper soakaways directly into natural granular strata.

On the basis of the above the material is not considered to comprise a significant risk to the River Irk or the underlying Secondary A and Principal Aquifers.

6.3 Additional Risk Assessments

6.3.1 Concrete (Pollutant Linkage 5)

The concentrations of soluble sulphate in the soil when contrasted to BRE Digest 2005[40] indicate that sulphate resistant concrete will be required across the site.

The specification should be determined by the appointed structural engineer.

[40] BRE (2005)."Concrete in Aggressive Ground." Special Digest 1.

7 Waste Disposal Assessment

The soil contamination results as presented in Appendix A have been used to help determine the disposal route should any material be earmarked for off-site disposal.

As an initial screen the soil results were inputted into '**HAZ-WASTE**^{SOIL}'. This is a web-based facility that allows an assessment of contaminant soils and classifies the soils as either hazardous or non-hazardous waste.

It is understood that **HAZ-WASTE**^{SOIL}' has been designed to cover the European Waste Catalogue code number 17 05 03 "soil and stones containing dangerous substances" and follows current guidance[41,42,43,44,45].

Where less than limits of detection (LOD) were recorded, the value of the LOD was inputted.

Where applicable relevant metal species were used relating to an ash source, such as metal oxides. This will provide a more realistic classification assessment.

The results show that all the samples tested are classified as **NON-HAZARDOUS WASTE**. The output sheets are provided in Appendix F.

Waste Acceptance Criteria testing has also been carried out on 13no. samples. After comparing the results to Landfill Waste Acceptance Criteria Limits, sporadic exceedance of Total Organic Carbon, Sulphate, Antimony, Total PAHs, TPH Total WAC and Total Dissolved Solids exceeds criteria for inert waste at hazardous waste landfills.

Sample S126 exceeds the hazardous waste criteria for Total Organic Carbon.

LKC recommend that the analytical results should be sent through to the chosen landfill operator so that they may make a final decision on the destination of the waste from site.

[41] EA (2018). "Guidance on the Classification and Assessment of Waste (1st Edition v1.1)". Technical Guidance WM3.
[42] The Hazardous Waste Directive, (HWD, Council Directive 91/689/EC).
[43] European Waste Catalogue, 2002 (EWC 2002, Commission Decision 2000/532/EC) as amended by Commission Decision 2001/118/EC, 2001/119/EC and Council Decision 2001/573/E.
[44] List of Wastes (England) Regulations 2005.
[45] Approved Supply List (Eighth Edition), 2002. ISBN: 0 7176 2368 8.

8 Summary Conclusions

LKC has been commissioned by Blackley Developments Ltd to undertake a trial pit investigation on stockpiled waste material on the eastern parcel of land at Blackley Mere.

The investigation involved 31no. trial pits to provide soil sampling of the stockpiled material to provide information for offsite waste disposal and potential reuse.

The material comprised a gravelly sandy clay / gravelly clayey sand with brick, concrete (gravel to cobble size) with inclusions of waste wrappers, ash, clinker, metal and ceramics. A topsoil type material was identified to a depth of 1.2m in TP108 and material with a strong organic / putrid odour was noted in TP120 between depths of 0.30-1.80m.

A sample was taken from every pit and subjected to contamination testing. Elevated PAHs and metals were identified in numerous locations. Fibres / clumps of Chrysotile were also identified in TP104 only.

All samples tested for contamination suites were identified as non-hazardous waste. A further 13no. samples were sampled for Waste Acceptance Criteria testing and when comparing results to Landfill Waste Acceptance Criteria Limits, the samples exceeded various criteria for inert waste at hazardous waste landfills. From TP126, sample S126 exceeds the hazardous waste criteria for Total Organic Carbon. The testing results appear to be of a lower magnitude than existing on site soils as demonstrated by the previous investigation.

16no. samples were subjected to leachate testing. Generally elevated concentrations of inorganic contaminants were present across the samples with limited and localised elevated levels of heavy end petroleum hydrocarbons. It is considered that the localised organic contamination is related to the leaching test analytical method and not representative of site conditions. The material is not considered to comprise a significant risk to River Irk or the underlying aquifers as rainfall infiltration and leaching potential will be limited and controlled by development surface water drainage infrastructure.

PSD and grading tests were carried out on 23no. samples. This demonstrated much of the material was cohesive in nature with a limited number of stockpiles complying with a granular specification.

9 Recommendations

The recommendations provided below are considered appropriate for the sampled material based on the site investigation work undertaken. LKC should stress that no remediation, enabling works or designing works should take place until Regulatory approval has been obtained.

Regulatory

The findings of this report, the risk assessment and recommendations should be provided to the Environment Agency and their approval sought on the results and risk assessment. In addition, the reuse and placement of the material shall be subject to appropriate waste management protocols and will require discussions with the Environment Agency.

The Local Authority should also be provided with a copy of this report and their approval of the human health risk assessment sought.

Material Reuse

LKC recommend that putrescible material identified in TP120 is delineated and segregated pending further treatment for reuse or disposal off site.

The topsoil type material encountered in TP102 should be delineated and segregated pending further assessment as to whether it may be used in the proposed garden clean soil capping layers.

The earthworks contractor shall provide a detailed Earthworks Specification for the placement of the material and to achieve the required development platform. This should include any required processing (such as screening and crushing of oversize material – under appropriate consents, mobile plant licenses and exemptions), placement specification, compaction specification and validation / compliance testing requirements.

This will also require the delivery of an enabled site where the site is suitable for the proposed foundation solution – anticipated to be piled foundations.

The specification should also include for appropriate slope stability assessments and retaining structure and slope design.

Placement of Material and Waste Regulations

To ensure material is compliant with appropriate waste regulations, any site won material re-used onsite (i.e. reprocessed hardstanding and relic foundations) should be with recourse to appropriate exemptions. A U1 and T5 exemption should be registered.

This will allow the following to be used onsite or brought in for use onsite (refer to guidance for types of waste that can be used [46]):

[46] https://www.gov.uk/guidance/waste-exemptions-using-waste

- 5,000 tonnes (c. 2,500m^3) treatment of crushed concrete / stone.
- 1,000 tonnes (c. 500m^3) use of non-hazardous soil
- 5,000 tonnes (c. 2,500m^3) use of clays, sand, gravel, brick, concrete, stone etc.
- 50,000 tonnes (c. 25,000m^3) use of bitumous material to be used in roadways.

Given the material has been determined as non-hazardous waste then its reuse and placement under a Materials Management Plan (MMP) with recourse to the CL:AIRE Code of Practice is considered appropriate.

The MMP must be registered **before** material movement starts onsite.

The MMP needs to be registered by a Qualified Person (QP) and there must be 'certainty of use' for any material re-used onsite (site won) or imported into site to ensure there is no 'sham recovery'.

Surface Water Management

The surface water drainage strategy for the site shall make due recourse to the findings of this report and limit the amount of infiltration / soakaway through the material and hence reduce its leaching potential.

Asbestos in Soil

Asbestos was noted in a single sample of the stockpiled material and across the site within the previous investigation. Therefore additional precautions shall be taken during site earthworks and construction in the areas of concern. The presence of asbestos in the site soils presents a potential risk of generation of airborne fibres if this material is disturbed, such as for excavations to construct new foundations.

This risk can be managed by careful procedures and site monitoring to reduce the risk of airborne fibres, and it is recommended that an appropriate 'Asbestos Management Strategy' is developed and adopted for all intrusive ground works which disturb the made ground in the area of concern. This should be carried out in line with CIRIA C733[47].

This may include asbestos awareness training for all site staff, provision of suitable personal and respiratory protective equipment and air monitoring.

With regards to cement bound asbestos, this can be handpicked, doubled bagged and disposed of appropriately to a licenced landfill. Guidance on removing asbestos cement is described in HSE (2012)[48].

Updated Build Phase Remediation Strategy

Post deposition and compaction and creation of the construction platform, LKC recommend that further boreholes are drilled and gas monitoring is carried out to identify if the proposed CS2 / Amber 1 protection measures remain applicable for the development.

The existing Remediation Strategy should be updated and remedial requirements for the build phase *inter alia* specification and validation requirements for garden capping layers, gas protection measures and potable water pipes provided for regulatory approval.

[47] CIRIA (2014). "Asbestos in Soil and Made Ground: A Guide to Understanding and Managing Risks". C733.
[48] HSE (2012). "Removing Asbestos Cement (AC) Debris)." A11 Asbestos Essential – Non-licenced Tasks.

The appointed Structural Engineer should determine the specification of any subsurface concrete to be laid in contact with the materials.

Site Completion Report

All the remediation and validation work should be documented in a Site Completion Report. The following Completion Reports will be provided to satisfy the outstanding contaminated land planning conditions:

- **Pre-construction Phase Completion Report:** Material placement, validation testing, ACM management details, post placement gas monitoring survey and revised build phase Remediation Strategy.
- **Build-phase Construction Completion Report:** garden capping layer depth, validation testing of any imported topsoil, gas protection measures validation, completion of UU potable water supply document and/or discussion with UU.

The aim of the completion reports will be to demonstrate to the Local Authority that the site has been suitably remediated to the extent that construction works may commence and, in accordance with the National Planning Policy Framework (NPPF)[49]:

- The site is suitable for its new use taking account of ground conditions and land instability, including from natural hazards or former activities such as mining, pollution arising from previous uses and any proposals for mitigation including land remediation or impacts on the natural environment arising from that remediation;
- After remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990[50]; and,
- Adequate site investigation information, prepared by a competent person, is presented.

Once the above is satisfied the Local Authority should be able to discharge all the relevant contaminated land conditions.

[49] DCL (2018). "National Planning Policy Framework." Department of Communities and Local Government.
[50] Defra (2006). "Environmental Protection Act 1990: Part 2A Contaminated land." Defra Circular 01/2006.

Figures



Contains Ordnance Survey data © Crown copyright and database right 2010

Figure 1: Site Location Plan, Blackley Mere

Drawn: April 2018 Scale: 1:25,000 @ A4 (see scale bar)

LK CONSULT LIMITED



KEY

Trial Pit (TP)

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.

LK CONSULT LIMITED

Client: Salford Excavations

Site: Blackley Mere

Title: Sampling Location Plan

Job No.:	Scale (See Scale Bar):	Figure:	Revision:
LKC 17 1257	1:500 @ A3	2	

Drawn By:	Checked By:	Drawn:
AC	KW	Apr 2018

Appendix A

Certificates of Analysis - Soil

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	18-08085-1
Initial Date of Issue:	03-Apr-2018
Client	LK Consult
Client Address:	Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester Lancashire M26 2ZS
Contact(s):	Colin Crompton Contaminated Land
Project	LKC 17 1257 Blackleys

Quotation No.:		**Date Received:**	23-Mar-2018
Order No.:	736013	**Date Instructed:**	23-Mar-2018
No. of Samples:	18		
Turnaround (Wkdays):	5	**Results Due:**	29-Mar-2018
Date Approved:	03-Apr-2018		

Approved By:



Details: Robert Monk, Technical Manager

Chemtest
The right chemistry to deliver results

Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult				**Chemtest Job No.:**	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:				**Chemtest Sample ID.:**	596611	596612	596613	596614	596615	596616	596617	596618
				Client Sample ID.:	S101	S102	S103	S104	S105	S106	S107	S108
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	Fibres/Clumps	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001				0.003				
Total Asbestos	N	2192	%	0.001				0.003				
Moisture	N	2030	%	0.020	17	29	16	18	16	15	16	19
Soil Colour	N	2040		N/A	Brown	Brown,	Brown,	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones, Roots	Stones, Roots	Stones, Roots, Brick	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Sand	Loam	Clay	Sand,
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	9.7	7.6	8.8	7.9	8.3	9.2	8.3	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.57	1.1	1.6	3.1	0.70	0.61	0.65	1.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.78	0.061	1.7	1.4	0.36	0.39	0.42	0.24
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80
Arsenic	M	2450	mg/kg	1.0	17	13	24	61	25	28	28	71
Cadmium	M	2450	mg/kg	0.10	0.16	0.42	0.23	0.24	0.31	0.23	0.23	0.41
Chromium	M	2450	mg/kg	1.0	21	16	19	42	29	32	25	28
Copper	M	2450	mg/kg	0.50	21	34	87	560	52	53	63	240
Mercury	M	2450	mg/kg	0.10	< 0.10	0.17	0.19	0.15	0.32	0.67	0.45	0.72
Nickel	M	2450	mg/kg	0.50	21	18	18	29	28	29	25	58
Lead	M	2450	mg/kg	0.50	32	61	320	560	120	120	140	490
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	0.70	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	24	21	23	42	31	32	28	56
Zinc	M	2450	mg/kg	0.50	56	270	290	150	110	100	110	440
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.7	7.4	2.4	9.0	3.8	2.8	3.1	17
Fuel Type	N	2670		N/A	Lube/PAH	N/A	Indiscernible	Lube	PAH	PAH	PAH	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	73	< 1.0	310	33	32	30	33	19
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	73	< 5.0	310	33	32	30	33	19
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult			**Chemtest Job No.:**		18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:			**Chemtest Sample ID.:**		596611	596612	596613	596614	596615	596616	596617	596618
			Client Sample ID.:		S101	S102	S103	S104	S105	S106	S107	S108
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Date Sampled:		21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	150	< 1.0	11	< 1.0	1.1	23
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	220	< 1.0	14	260	120	20	1.6	110
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	220	< 5.0	170	260	130	20	< 5.0	140
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	300	< 10	480	290	160	50	35	160
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	0.15	0.34	0.89	0.23	0.66	0.65	0.68	0.97
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	0.13	0.19	0.43	0.11	0.31
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	1.2	0.58	1.1	1.9
Fluorene	M	2800	mg/kg	0.10	0.10	< 0.10	0.72	0.20	1.0	0.68	0.77	1.4
Phenanthrene	M	2800	mg/kg	0.10	0.64	0.70	6.0	2.1	7.6	7.0	7.4	11
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.13	1.0	0.33	1.8	2.0	1.5	2.9
Fluoranthene	M	2800	mg/kg	0.10	0.69	1.0	4.5	2.7	11	9.3	9.1	17
Pyrene	M	2800	mg/kg	0.10	0.63	0.90	4.3	2.5	9.3	7.9	8.0	15
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.20	0.41	1.6	0.74	4.2	4.1	3.7	6.6
Chrysene	M	2800	mg/kg	0.10	0.24	0.50	2.1	1.1	5.1	4.4	3.8	8.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.28	0.59	2.0	1.1	5.6	4.8	4.8	9.7
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.11	0.17	0.74	0.42	2.4	1.8	1.8	4.1
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.14	0.37	1.6	0.86	4.5	3.9	3.9	8.2
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.25	0.76	0.58	3.6	2.9	2.9	6.2
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	< 0.10	0.57	0.49	0.45	0.95
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	0.28	0.95	0.62	3.0	2.5	2.4	4.6
Total Of 16 PAH's	N	2800	mg/kg	2.0	3.2	5.6	28	14	62	53	52	99
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult				**Chemtest Job No.:**	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:				**Chemtest Sample ID.:**	596619	596620	596621	596622	596623	596624	596625	596626
				Client Sample ID.:	S109	S110	S111	S112	S113	S114	S115	S116
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001								
Total Asbestos	N	2192	%	0.001								
Moisture	N	2030	%	0.020	19	17	12	16	18	16	18	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones, Roots	Stones, Roots	Stones, Roots	Stones	Stones	Stones, Roots	Stones, Roots	Stones, Roots
Soil Texture	N	2040		N/A	Clay,	Loam	Clay	Clay	Clay	Clay	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	7.8	8.2	10.1	9.0	8.2	8.5	7.8	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.0	0.85	0.70	0.97	0.72	0.60	0.49	0.54
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.88	0.49	1.2	0.76	0.15	0.35	0.14	0.16
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	24	31	22	21	18	18	17	15
Cadmium	M	2450	mg/kg	0.10	0.37	0.28	0.20	0.23	0.24	0.26	0.15	0.15
Chromium	M	2450	mg/kg	1.0	24	53	21	26	32	24	30	30
Copper	M	2450	mg/kg	0.50	59	66	55	50	59	46	54	64
Mercury	M	2450	mg/kg	0.10	0.38	1.5	0.23	0.36	0.26	0.24	0.28	0.28
Nickel	M	2450	mg/kg	0.50	25	37	21	30	25	26	49	21
Lead	M	2450	mg/kg	0.50	160	130	120	130	100	110	140	94
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	29	31	26	34	28	25	30	30
Zinc	M	2450	mg/kg	0.50	160	110	140	120	100	93	120	96
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	3.3	6.4	2.1	2.8	3.8	4.0	4.1	5.2
Fuel Type	N	2670		N/A	PAH	PAH	PAH	PAH	PAH	PAH/Lube	PAH/H.Oil	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	110	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	31	38	11	13	76	220	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	31	38	11	13	76	330	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596619	596620	596621	596622	596623	596624	596625	596626
		Client Sample ID.:			S109	S110	S111	S112	S113	S114	S115	S116
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	14	< 1.0	1.1	9.3	1.6	< 1.0	8.5
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	9.3	95	46	11	29	180	74	13
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	9.3	110	46	12	39	190	74	21
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	140	84	24	52	260	410	21
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	1.4	4.2	0.16	0.14	0.14	0.22	1.0	0.35
Acenaphthylene	N	2800	mg/kg	0.10	0.14	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	1.1	8.7	< 0.10	< 0.10	< 0.10	0.47	1.0	0.43
Fluorene	M	2800	mg/kg	0.10	1.7	8.0	< 0.10	< 0.10	0.18	0.53	1.3	0.52
Phenanthrene	M	2800	mg/kg	0.10	23	77	3.5	4.0	3.3	8.4	10	4.3
Anthracene	M	2800	mg/kg	0.10	4.6	18	0.47	0.67	0.54	1.5	2.1	0.71
Fluoranthene	M	2800	mg/kg	0.10	28	93	5.4	8.3	5.7	12	14	5.6
Pyrene	M	2800	mg/kg	0.10	24	81	4.9	7.3	5.2	10	12	5.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	8.2	28	1.5	2.8	1.8	3.7	5.1	1.8
Chrysene	M	2800	mg/kg	0.10	9.6	32	2.1	3.8	2.4	4.4	6.1	2.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	8.2	29	1.6	3.4	2.2	4.4	5.7	2.2
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	3.2	13	0.38	1.3	0.64	1.8	2.3	0.78
Benzo[a]pyrene	M	2800	mg/kg	0.10	6.4	24	0.92	2.2	1.5	3.3	4.3	1.7
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	4.7	17	0.56	1.6	1.0	2.1	2.7	0.98
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.73	2.6	< 0.10	0.18	< 0.10	0.26	0.36	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	5.2	17	0.86	1.8	1.1	2.2	3.0	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	130	450	22	38	26	55	71	27
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Results - Soil

Project: LKC 17 1257 Blackleys

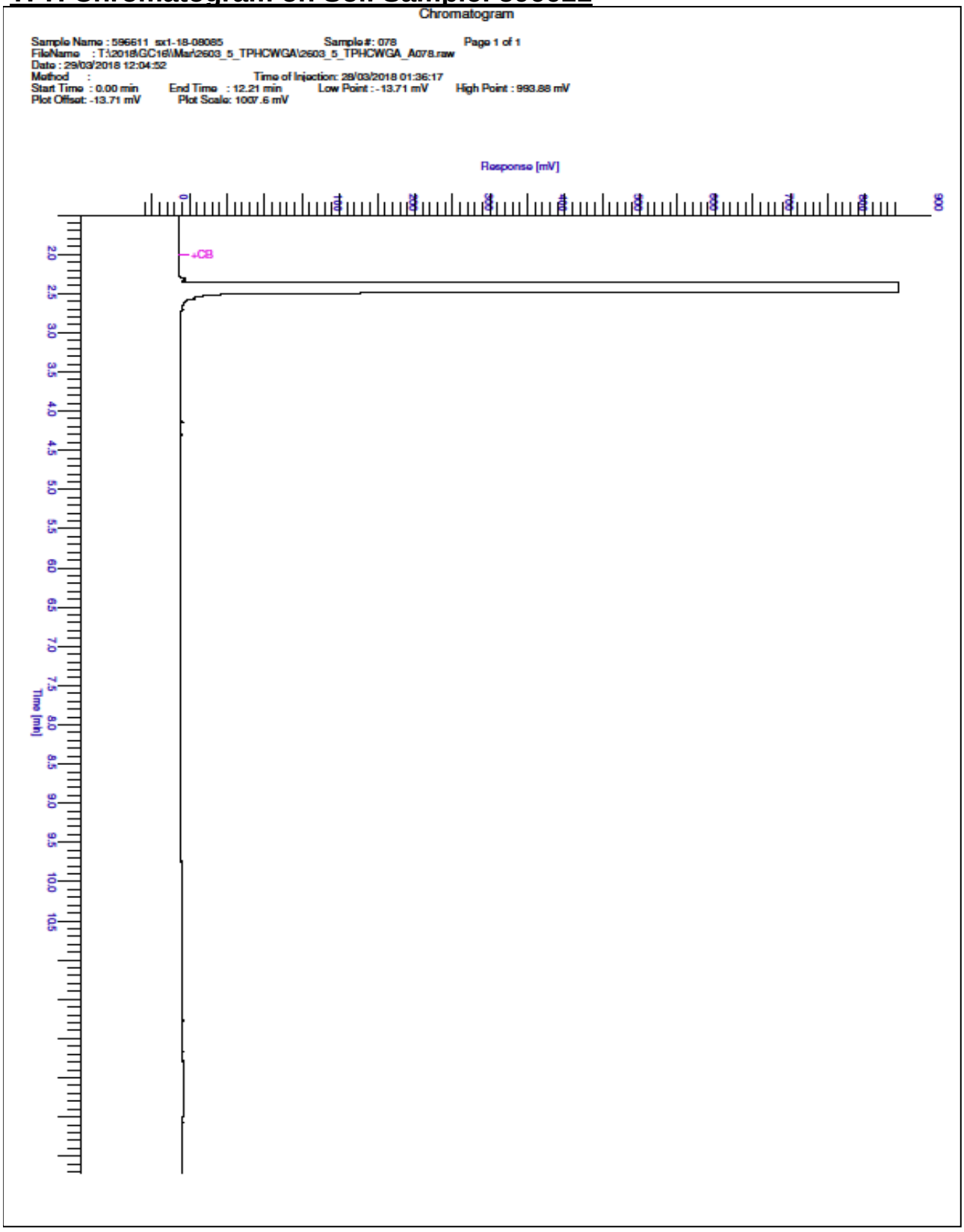
Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596627	596628
		Client Sample ID.:			S117	S118
		Sample Type:			SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001		
Total Asbestos	N	2192	%	0.001		
Moisture	N	2030	%	0.020	15	20
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached
pH	M	2010		N/A	9.1	8.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.67	0.57
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.38	0.17
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	16	29
Cadmium	M	2450	mg/kg	0.10	0.15	0.25
Chromium	M	2450	mg/kg	1.0	22	33
Copper	M	2450	mg/kg	0.50	39	120
Mercury	M	2450	mg/kg	0.10	0.16	0.36
Nickel	M	2450	mg/kg	0.50	24	42
Lead	M	2450	mg/kg	0.50	77	150
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	24	38
Zinc	M	2450	mg/kg	0.50	68	160
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.2	5.3
Fuel Type	N	2670		N/A	PAH/Lube	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	5.1	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	12	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	58	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	75	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

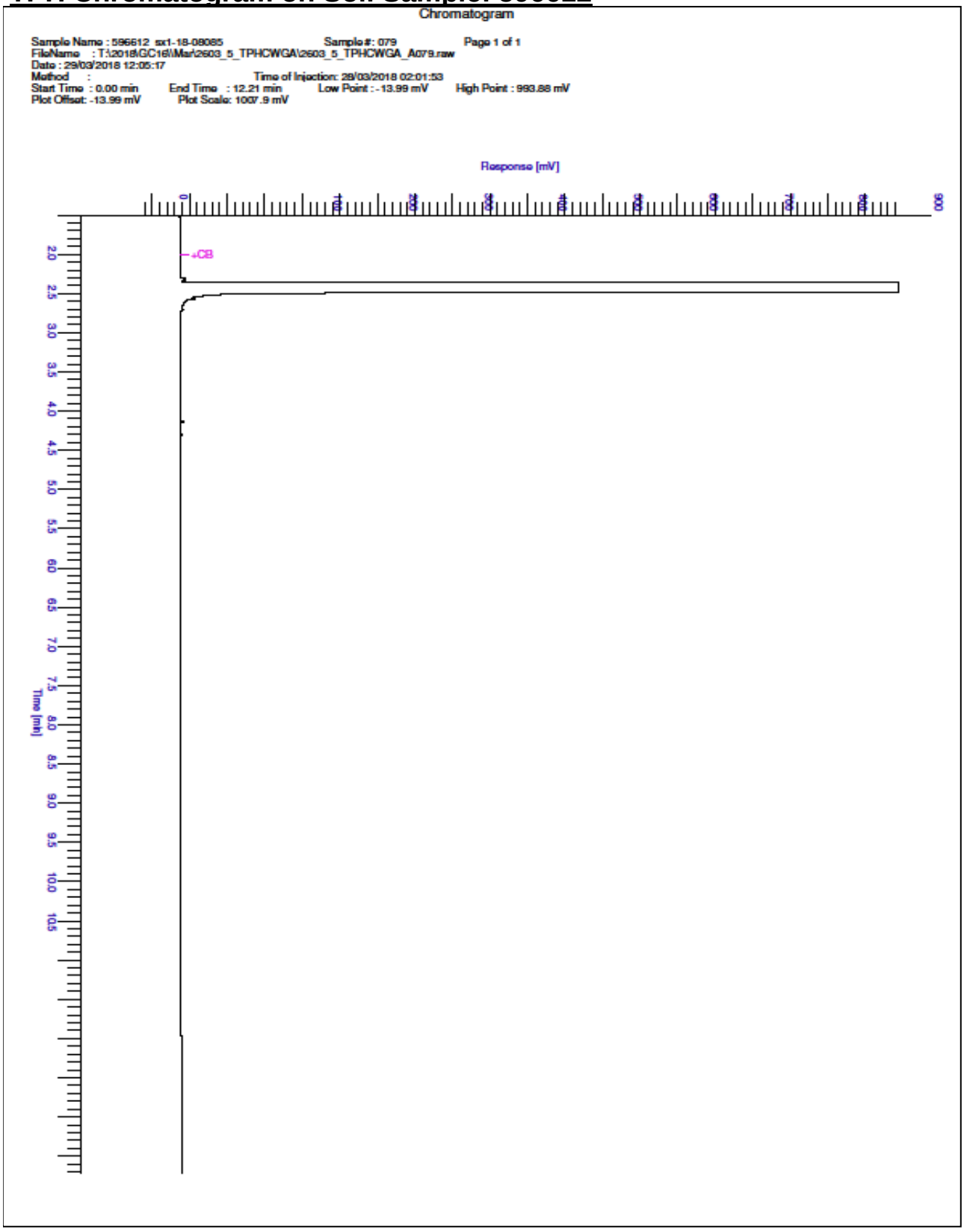
Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596627	596628
		Client Sample ID.:			S117	S118
		Sample Type:			SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	14	7.4
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	240	17
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	260	24
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	330	24
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	0.17	0.48
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	0.42
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	0.86
Fluorene	M	2800	mg/kg	0.10	< 0.10	1.2
Phenanthrene	M	2800	mg/kg	0.10	3.1	18
Anthracene	M	2800	mg/kg	0.10	0.70	4.7
Fluoranthene	M	2800	mg/kg	0.10	5.5	36
Pyrene	M	2800	mg/kg	0.10	4.5	31
Benzo[a]anthracene	M	2800	mg/kg	0.10	1.8	15
Chrysene	M	2800	mg/kg	0.10	2.3	15
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	2.1	17
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.84	7.0
Benzo[a]pyrene	M	2800	mg/kg	0.10	1.5	15
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.90	9.9
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	1.9
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.98	9.0
Total Of 16 PAH's	N	2800	mg/kg	2.0	24	180
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30

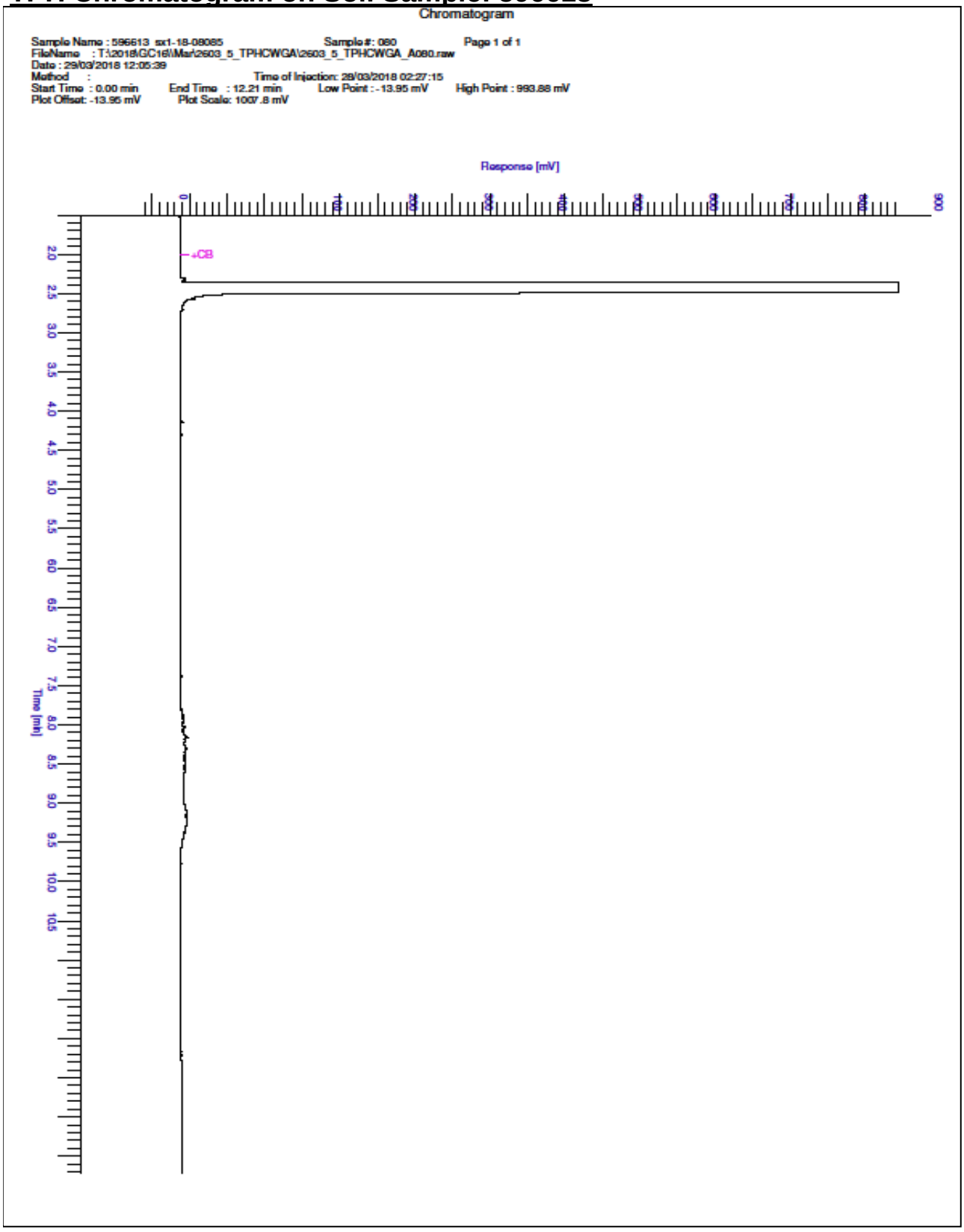
TPH Chromatogram on Soil Sample: 596611



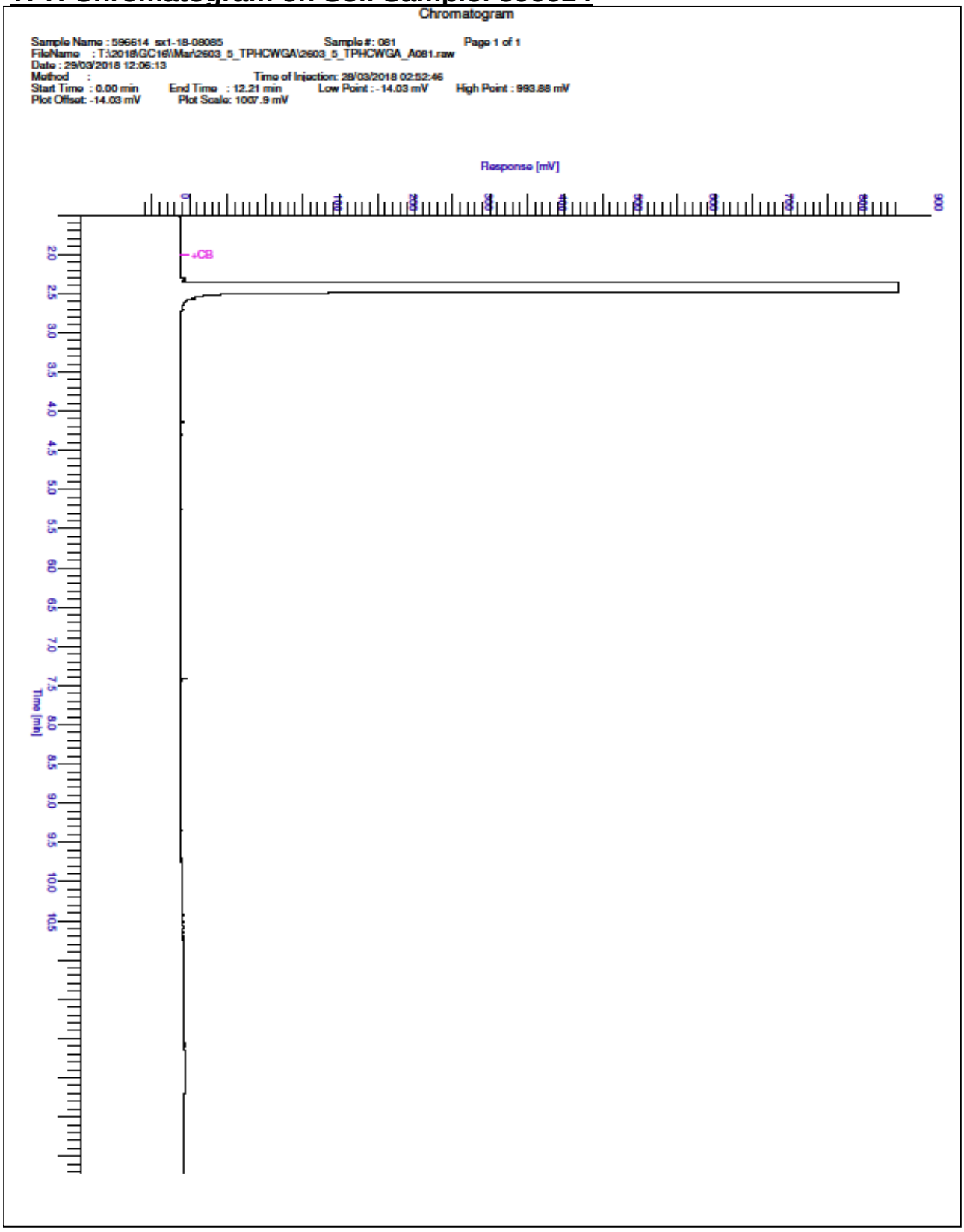
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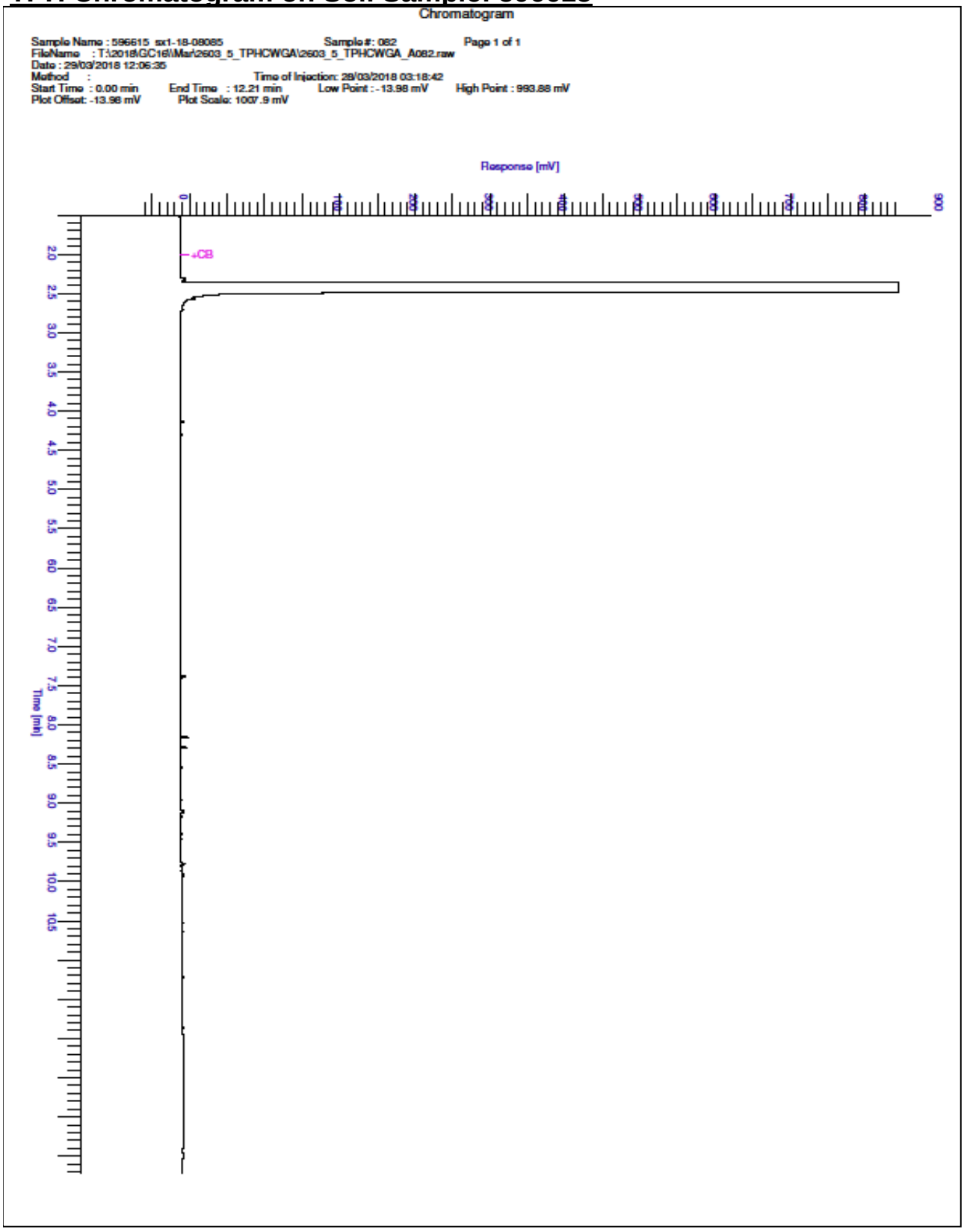
TPH Chromatogram on Soil Sample: 596613



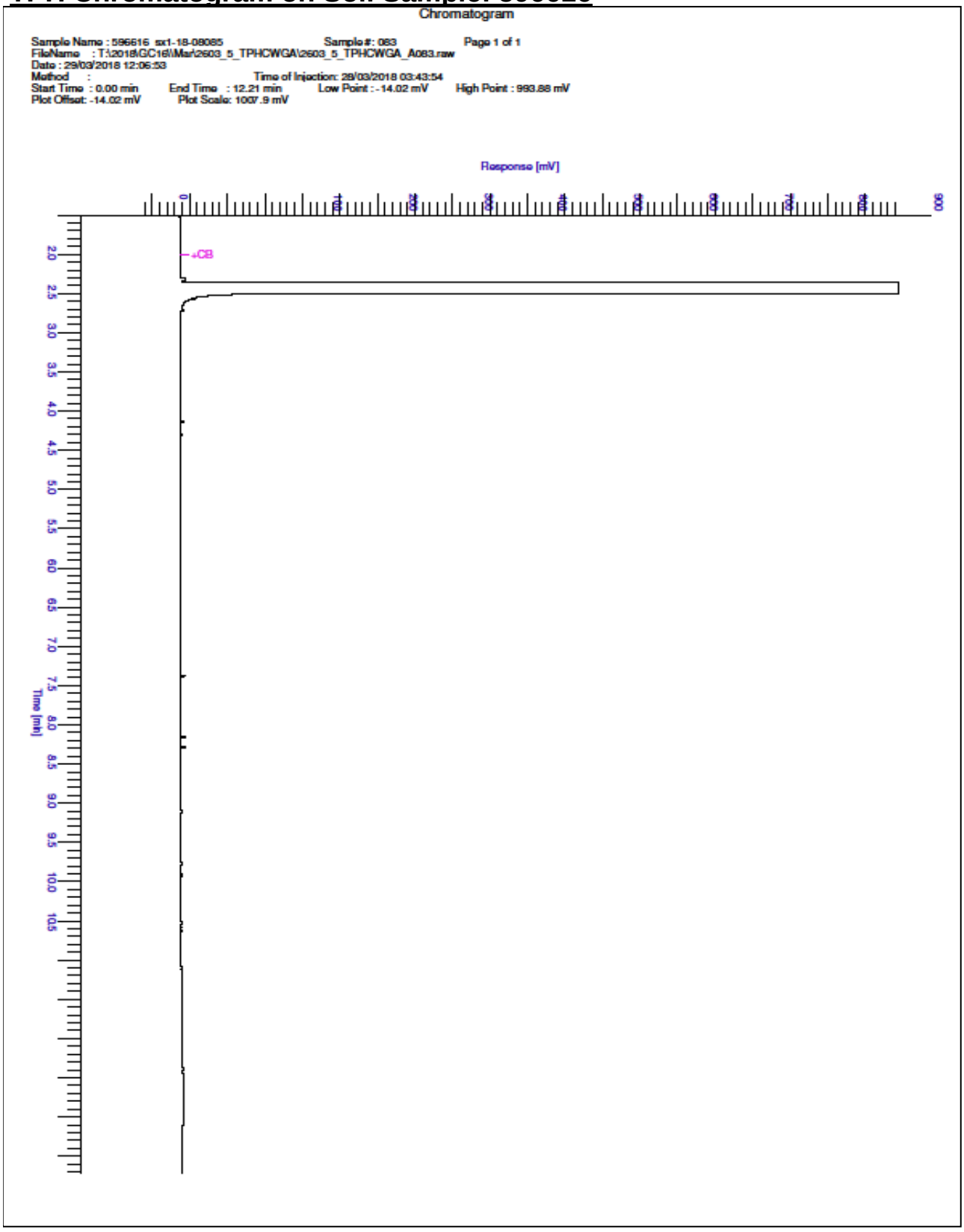
TPH Chromatogram on Soil Sample: 596614



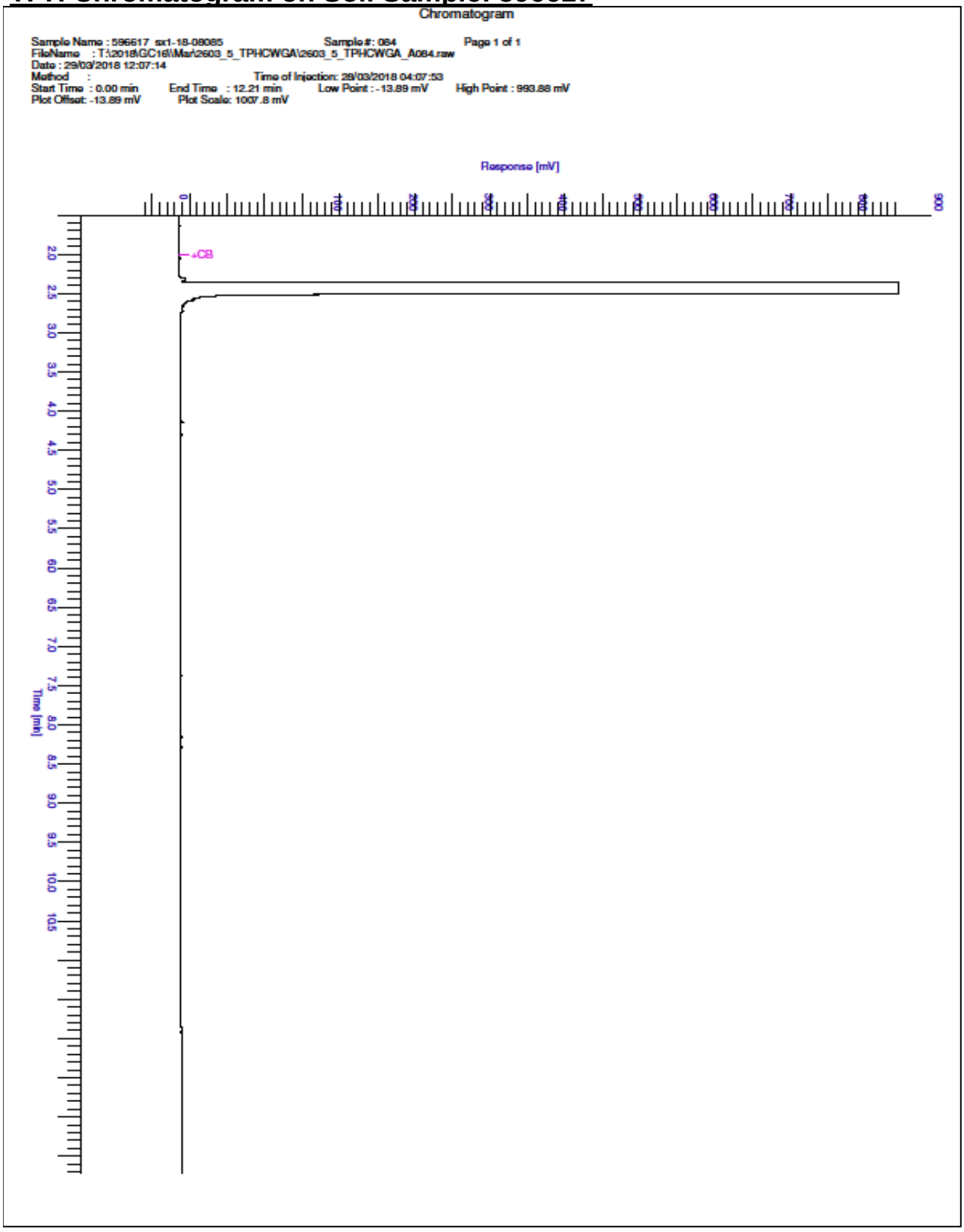
TPH Chromatogram on Soil Sample: 596615



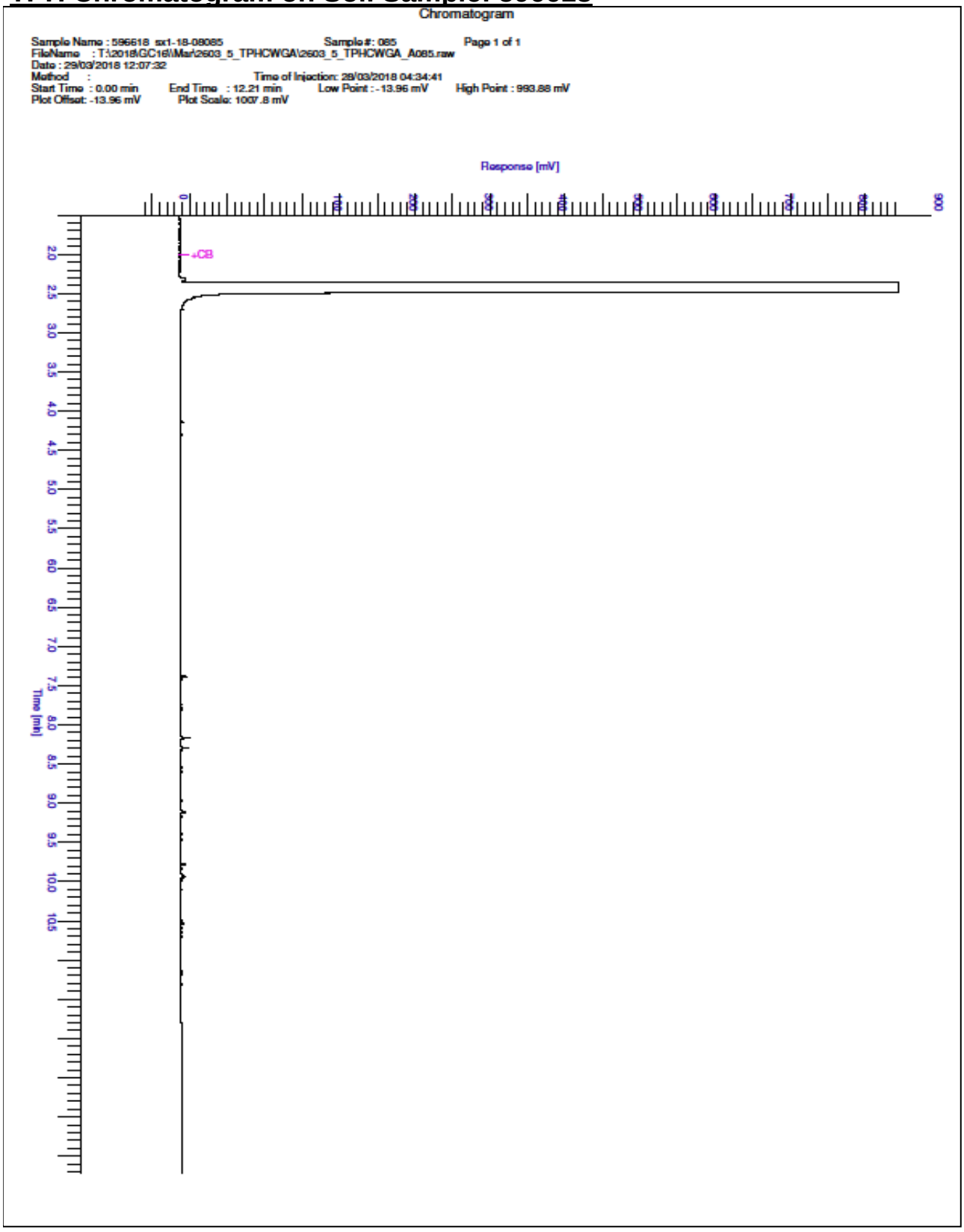
TPH Chromatogram on Soil Sample: 596616



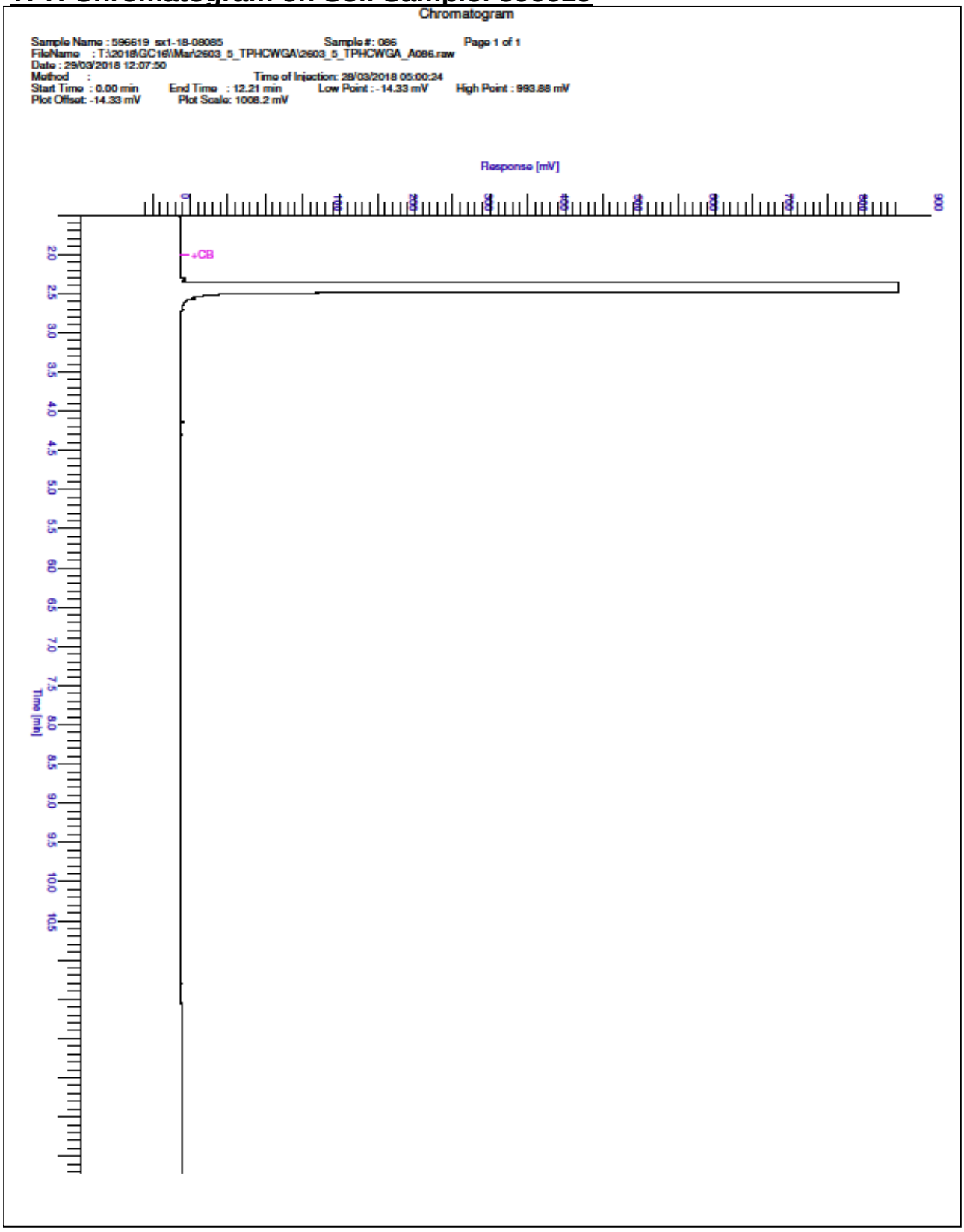
TPH Chromatogram on Soil Sample: 596617



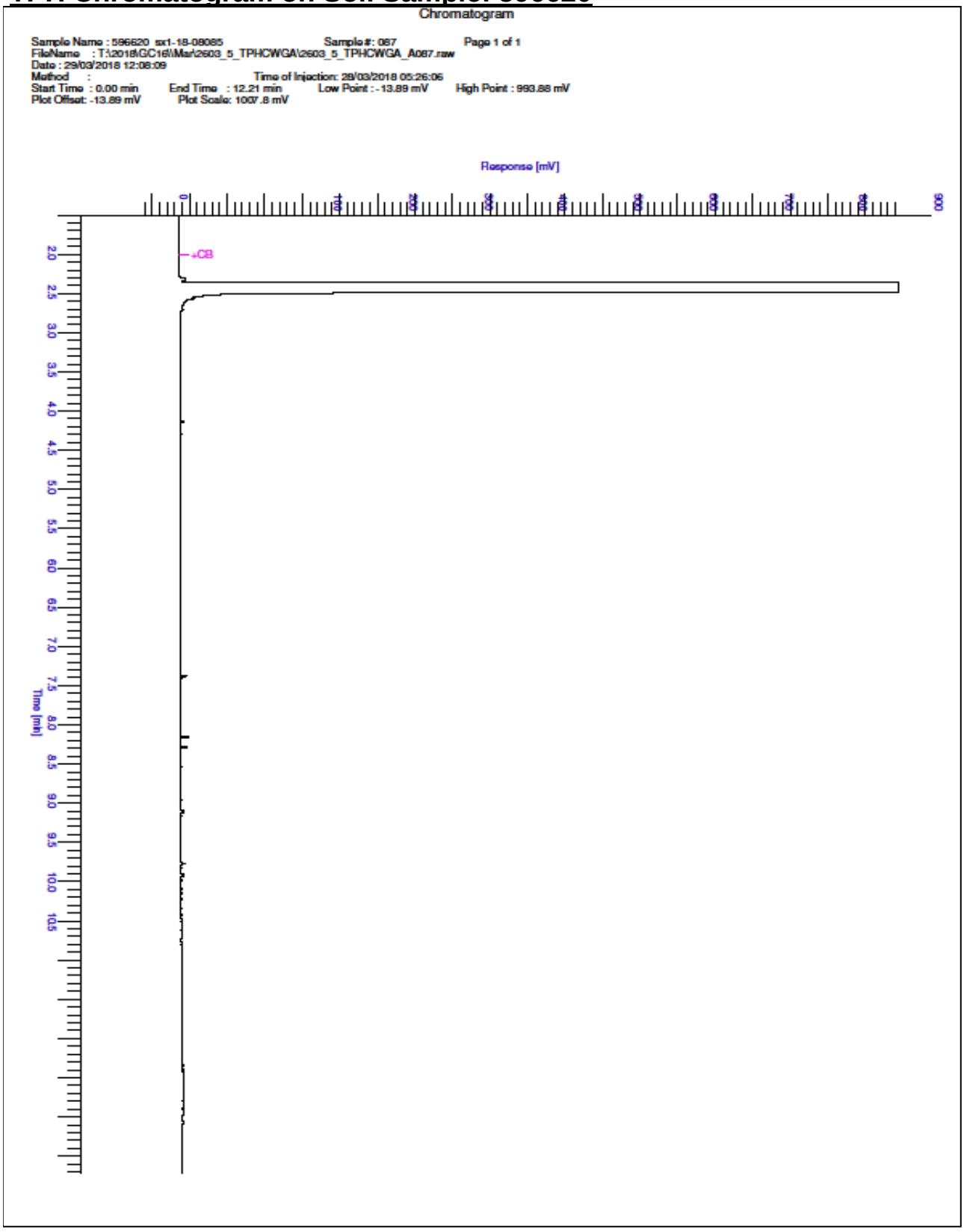
TPH Chromatogram on Soil Sample: 596618



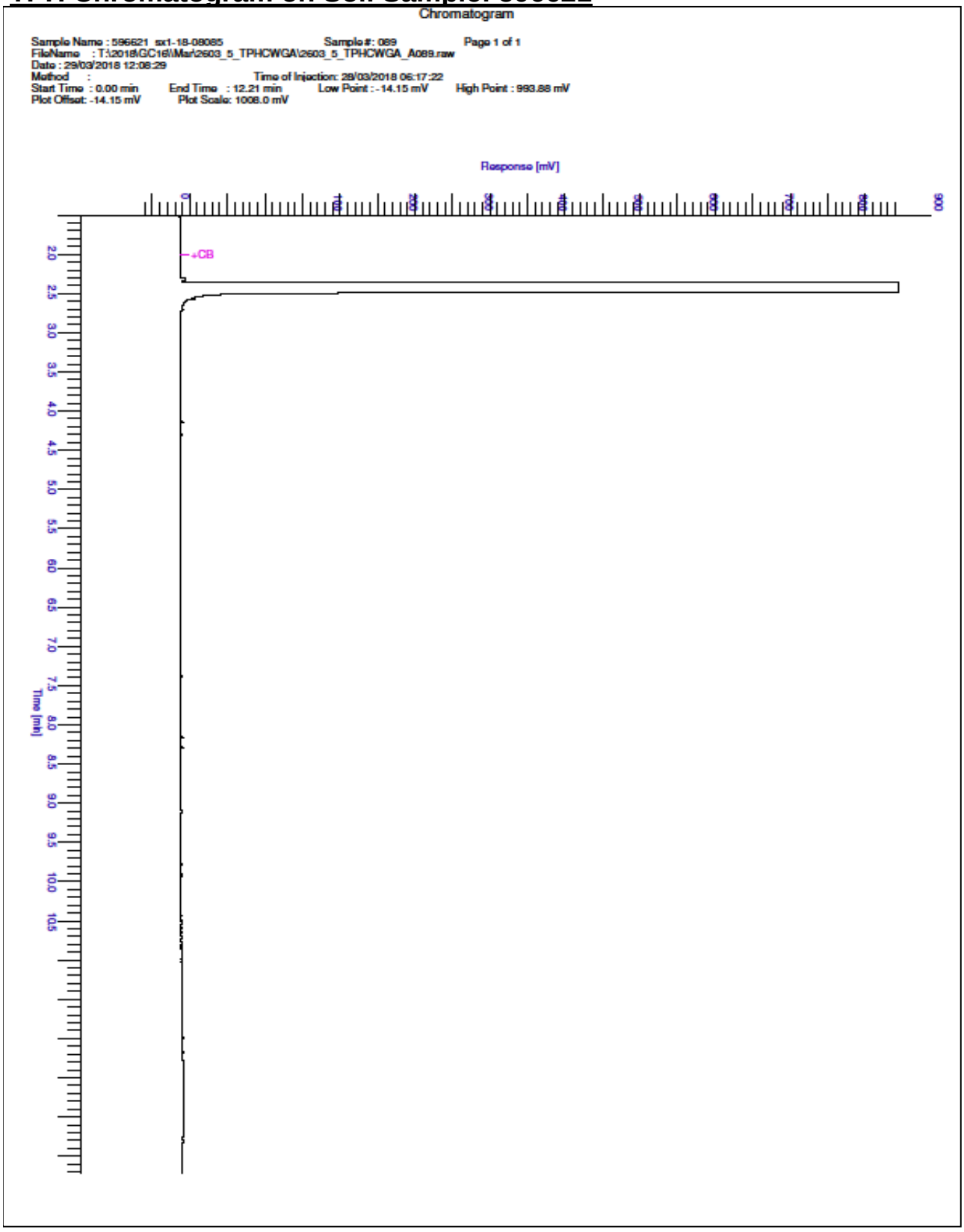
TPH Chromatogram on Soil Sample: 596619



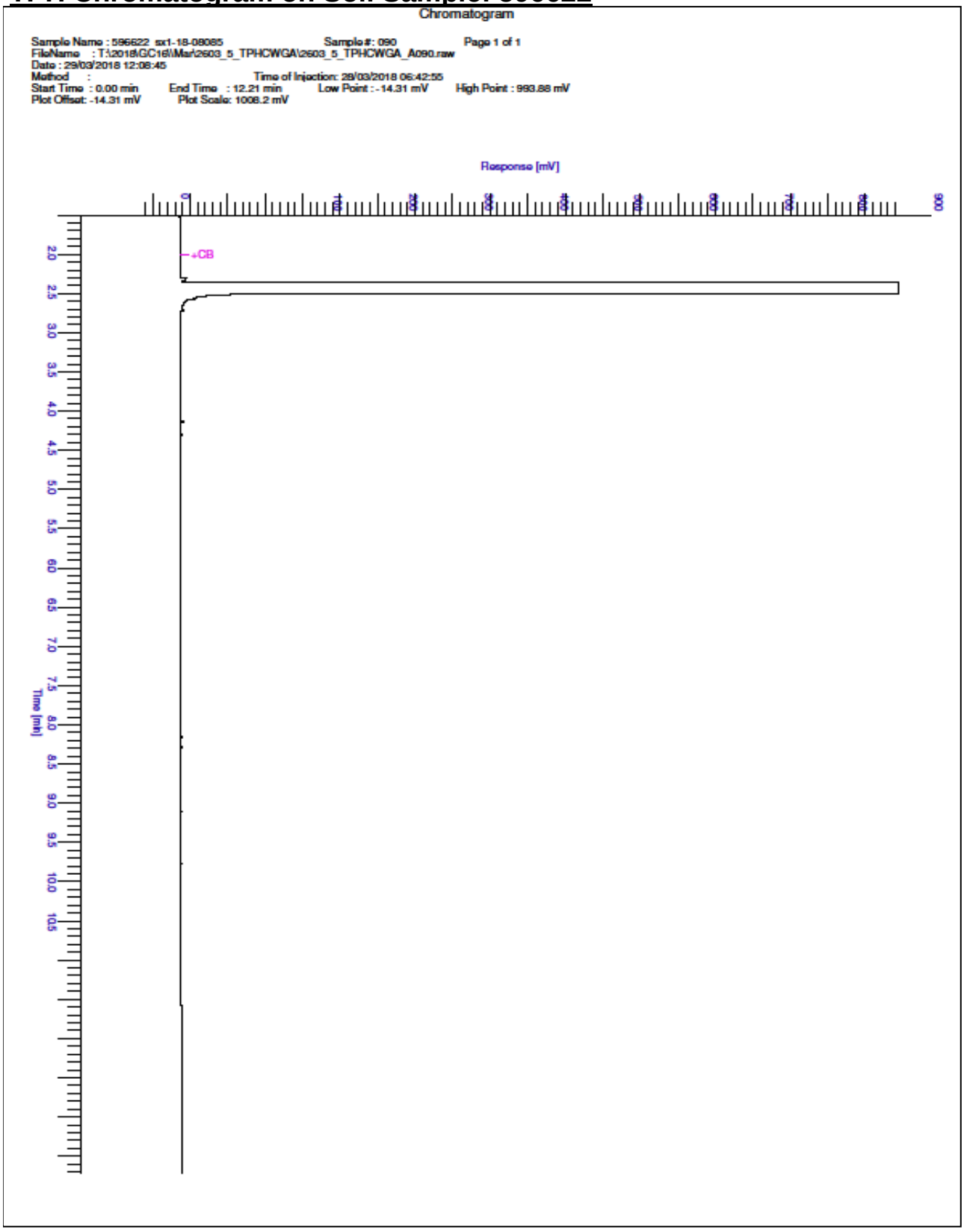
TPH Chromatogram on Soil Sample: 596620



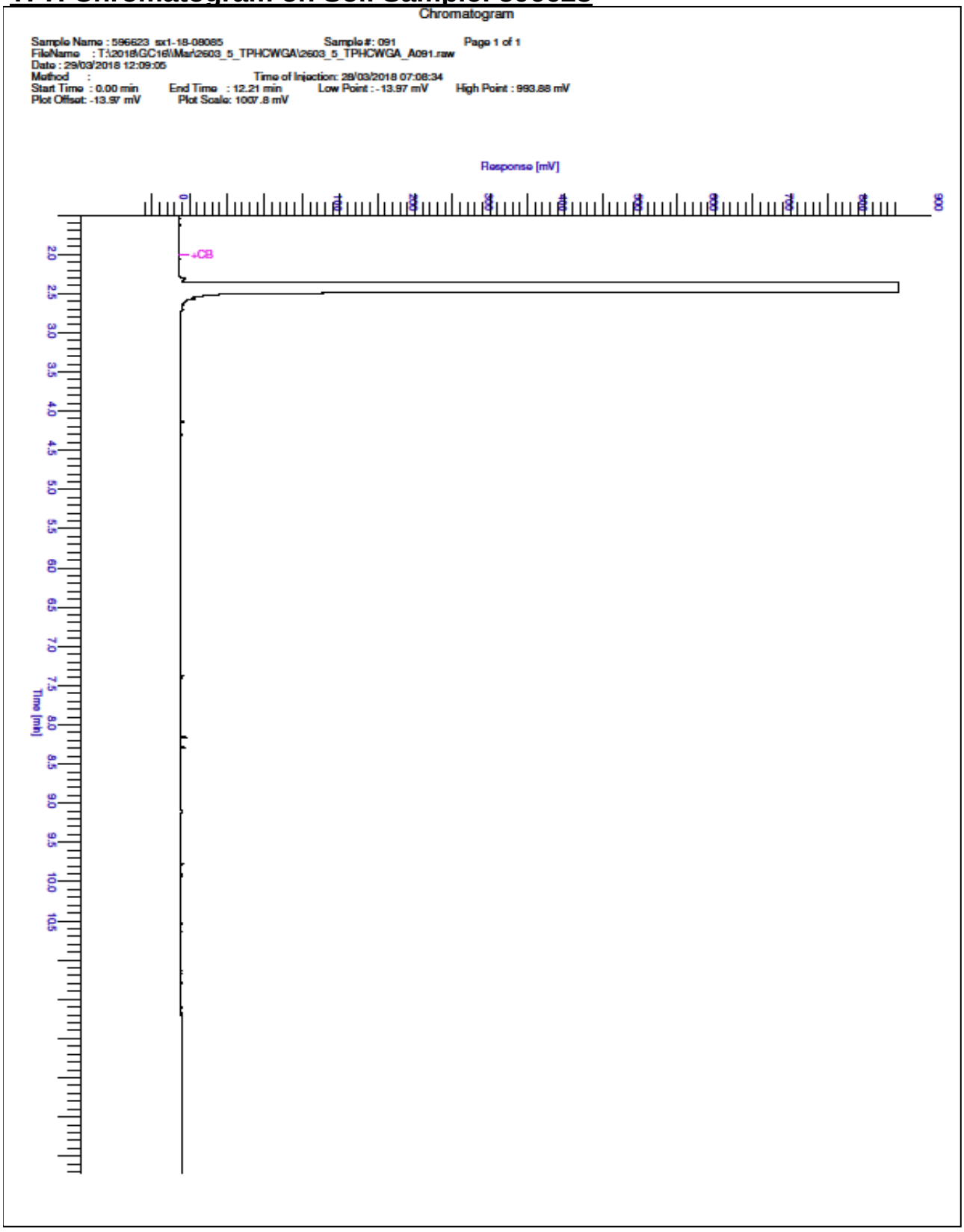
TPH Chromatogram on Soil Sample: 596621



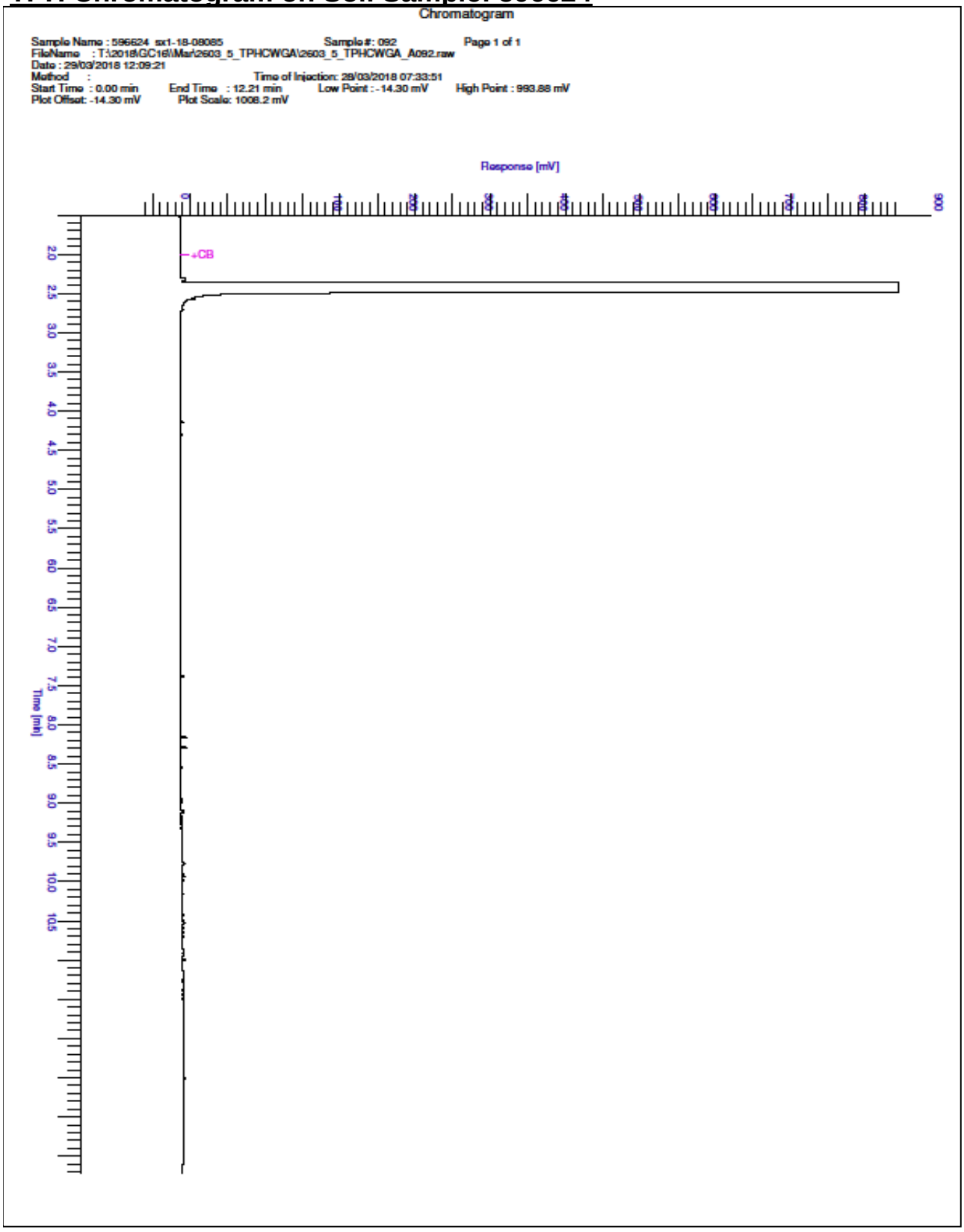
TPH Chromatogram on Soil Sample: 596622



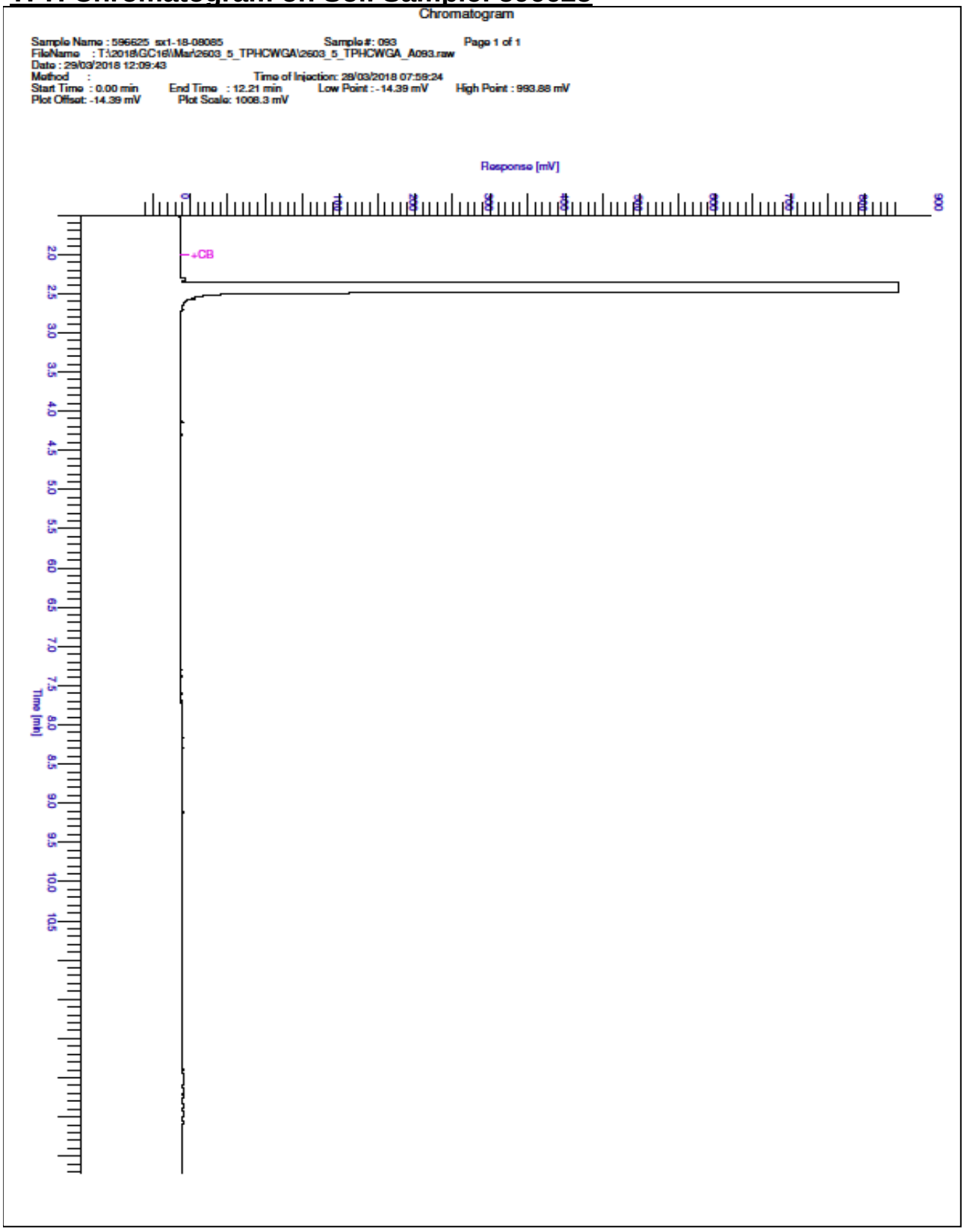
TPH Chromatogram on Soil Sample: 596623



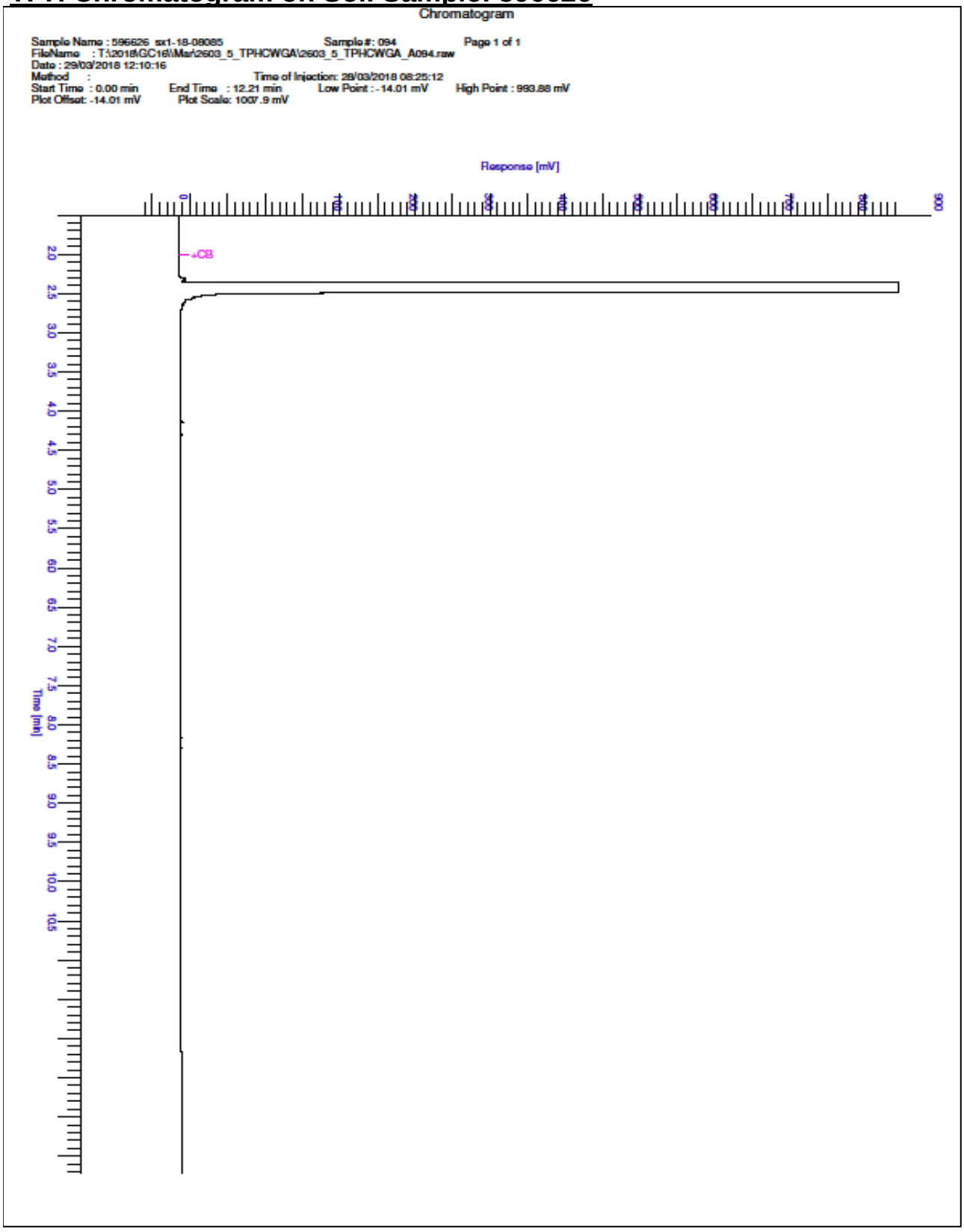
TPH Chromatogram on Soil Sample: 596624



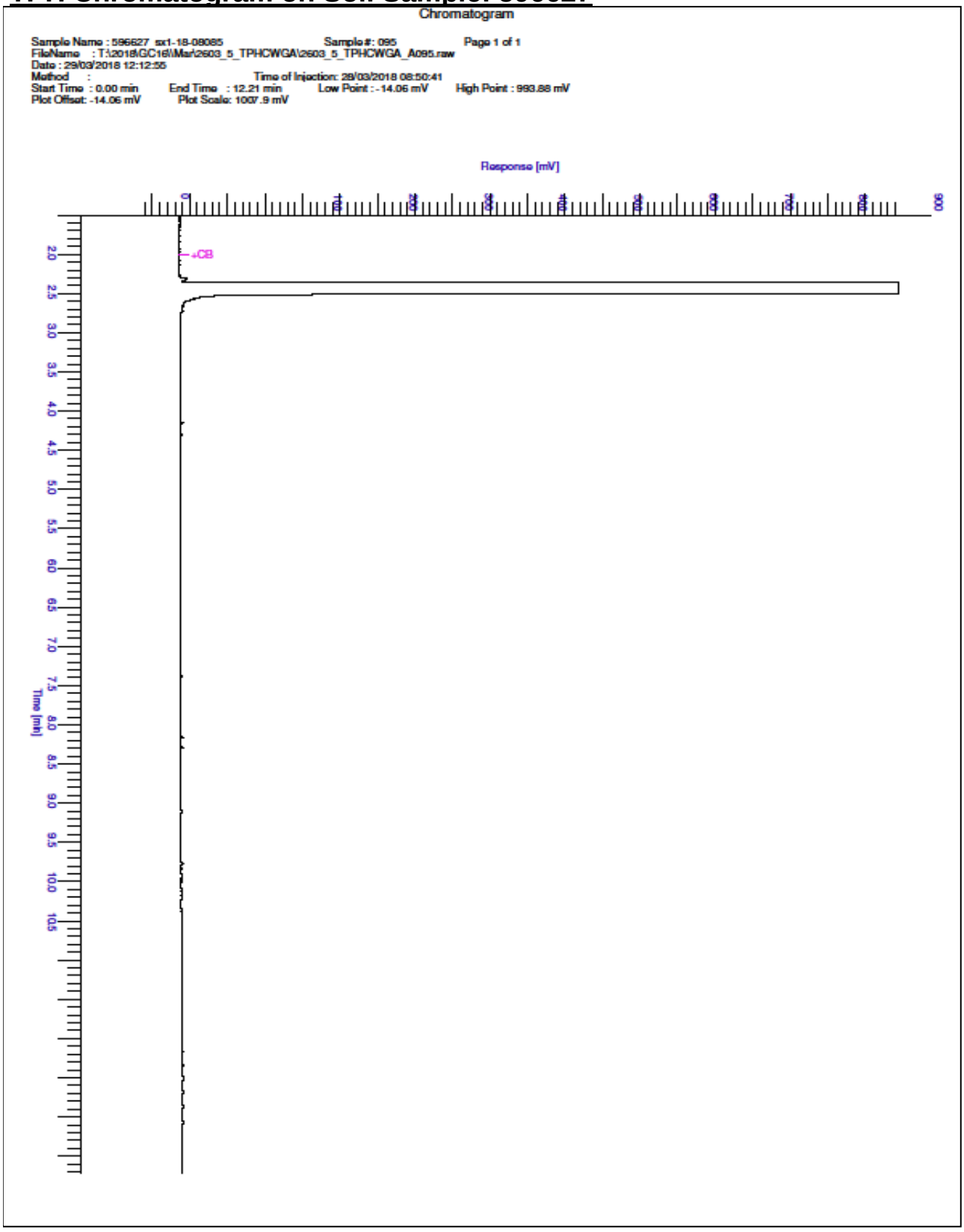
TPH Chromatogram on Soil Sample: 596625



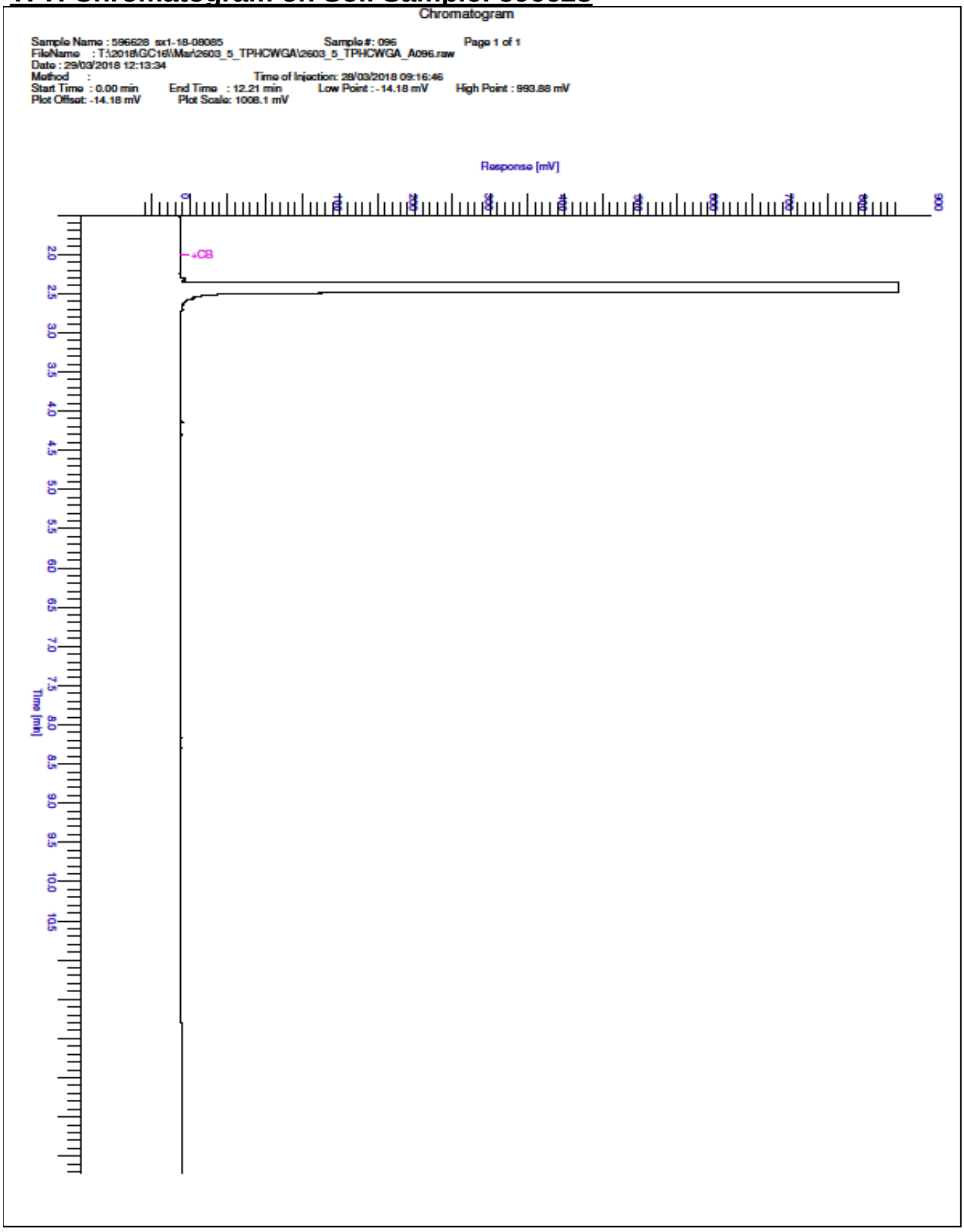
TPH Chromatogram on Soil Sample: 596626



TPH Chromatogram on Soil Sample: 596627



TPH Chromatogram on Soil Sample: 596628



Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	18-08087-1
Initial Date of Issue:	04-Apr-2018
Client	LK Consult
Client Address:	Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester Lancashire M26 2ZS
Contact(s):	Colin Crompton Contaminated Land
Project	LKC 17 1257 Blackleys

Quotation No.:		**Date Received:**	23-Mar-2018
Order No.:	736013	**Date Instructed:**	23-Mar-2018
No. of Samples:	7		
Turnaround (Wkdays):	7	**Results Due:**	04-Apr-2018
Date Approved:	04-Apr-2018		

Approved By:



Details: Martin Dyer, Laboratory Manager

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596639								
Sample Ref:									
Sample ID:	S102								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			4.1	3	5	6
Loss On Ignition	2610	U	%			8.3	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			16	100	--	--
pH	2010	U				8.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.37	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0088	0.010	< 0.050	0.097	0.5	2	25
Barium	1450	U	0.048	0.039	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	0.0015	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0056	0.013	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.014	0.023	< 0.050	0.22	0.5	10	30
Nickel	1450	U	0.0031	0.0043	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	0.0014	< 0.010	0.012	0.5	10	50
Antimony	1450	U	0.0055	0.017	0.010	0.15	0.06	0.7	5
Selenium	1450	U	0.0014	0.0020	< 0.010	0.019	0.1	0.5	7
Zinc	1450	U	0.0053	0.0047	< 0.50	< 0.50	4	50	200
Chloride	1220	U	5.6	3.2	11	35	800	15000	25000
Fluoride	1220	U	0.29	0.39	< 1.0	3.7	10	150	500
Sulphate	1220	U	84	95	160	920	1000	20000	50000
Total Dissolved Solids	1020	N	170	99	320	1100	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	25	20	< 50	200	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	29

Leachate Test Information	
Leachant volume 1st extract/l	0.277
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.236

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596640								
Sample Ref:									
Sample ID:	S104								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			4.3	3	5	6
Loss On Ignition	2610	U	%			5.4	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			720	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			5.7	100	--	--
pH	2010	U				8.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.084	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0076	0.0048	< 0.050	0.052	0.5	2	25
Barium	1450	U	0.042	0.042	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	0.0024	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0064	0.0043	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0044	0.0085	< 0.050	0.078	0.5	10	30
Nickel	1450	U	0.0013	0.0014	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	0.0013	< 0.010	0.011	0.5	10	50
Antimony	1450	U	0.0020	0.0019	< 0.010	0.019	0.06	0.7	5
Selenium	1450	U	0.0015	0.0022	< 0.010	0.021	0.1	0.5	7
Zinc	1450	U	0.020	0.022	< 0.50	< 0.50	4	50	200
Chloride	1220	U	2.2	1.7	< 10	18	800	15000	25000
Fluoride	1220	U	0.33	0.37	< 1.0	3.6	10	150	500
Sulphate	1220	U	540	470	1100	4800	1000	20000	50000
Total Dissolved Solids	1020	N	640	490	1300	5100	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	11	9.5	< 50	97	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	19

Leachate Test Information	
Leachant volume 1st extract/l	0.308
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.292

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596641								
Sample Ref:									
Sample ID:	S107								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			3.1	3	5	6
Loss On Ignition	2610	U	%			6.0	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			93	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			88	100	--	--
pH	2010	U				8.8	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.073	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0044	0.0058	< 0.050	0.055	0.5	2	25
Barium	1450	U	0.051	0.043	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	0.0014	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0080	0.013	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0068	0.017	< 0.050	0.15	0.5	10	30
Nickel	1450	U	0.0018	0.0024	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0069	0.0030	0.014	0.037	0.5	10	50
Antimony	1450	U	0.0037	0.0070	< 0.010	0.064	0.06	0.7	5
Selenium	1450	U	0.0014	0.0015	< 0.010	0.015	0.1	0.5	7
Zinc	1450	U	0.013	0.0061	< 0.50	< 0.50	4	50	200
Chloride	1220	U	11	2.8	22	42	800	15000	25000
Fluoride	1220	U	0.26	0.45	< 1.0	4.1	10	150	500
Sulphate	1220	U	110	64	220	720	1000	20000	50000
Total Dissolved Solids	1020	N	240	95	470	1200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	15	11	< 50	120	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	18

Leachate Test Information	
Leachant volume 1st extract/l	0.311
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.306

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596642								
Sample Ref:									
Sample ID:	S110								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			4.0	3	5	6
Loss On Ignition	2610	U	%			5.9	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			830	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			430	100	--	--
pH	2010	U				8.7	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.063	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0050	0.0073	< 0.050	0.070	0.5	2	25
Barium	1450	U	0.052	0.032	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0012	0.0058	< 0.050	0.051	0.5	10	70
Copper	1450	U	0.0067	0.0051	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.012	0.023	< 0.050	0.21	0.5	10	30
Nickel	1450	U	0.0023	0.0011	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0056	< 0.0010	0.011	< 0.010	0.5	10	50
Antimony	1450	U	0.0030	0.0035	< 0.010	0.034	0.06	0.7	5
Selenium	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.013	0.0043	< 0.50	< 0.50	4	50	200
Chloride	1220	U	4.4	2.8	< 10	30	800	15000	25000
Fluoride	1220	U	0.29	0.35	< 1.0	3.4	10	150	500
Sulphate	1220	U	170	94	340	1000	1000	20000	50000
Total Dissolved Solids	1020	N	280	100	550	1200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	12	9.9	< 50	100	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	16

Leachate Test Information	
Leachant volume 1st extract/l	0.317
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.244

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596643								
Sample Ref:									
Sample ID:	S113								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			2.2	3	5	6
Loss On Ignition	2610	U	%			5.5	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			170	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			78	100	--	--
pH	2010	U				8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.051	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0048	0.0036	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.054	0.072	< 0.50	0.68	20	100	300
Cadmium	1450	U	< 0.00010	0.00013	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0040	0.011	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.015	0.026	< 0.050	0.24	0.5	10	30
Nickel	1450	U	0.0014	0.0023	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0046	0.0029	< 0.010	0.032	0.5	10	50
Antimony	1450	U	0.0023	0.011	< 0.010	0.094	0.06	0.7	5
Selenium	1450	U	< 0.0010	0.0013	< 0.010	0.011	0.1	0.5	7
Zinc	1450	U	0.011	0.0089	< 0.50	< 0.50	4	50	200
Chloride	1220	U	7.0	2.1	14	30	800	15000	25000
Fluoride	1220	U	0.27	0.38	< 1.0	3.6	10	150	500
Sulphate	1220	U	140	140	280	1400	1000	20000	50000
Total Dissolved Solids	1020	N	270	160	530	1800	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	14	13	< 50	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	20

Leachate Test Information	
Leachant volume 1st extract/l	0.308
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.319

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596644								
Sample Ref:									
Sample ID:	S115								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			2.4	3	5	6
Loss On Ignition	2610	U	%			5.1	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			67	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			42	100	--	--
pH	2010	U				8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.039	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0030	0.0045	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.083	0.088	< 0.50	0.87	20	100	300
Cadmium	1450	U	< 0.00010	0.00014	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0037	0.0078	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.014	0.028	< 0.050	0.26	0.5	10	30
Nickel	1450	U	0.0021	0.0030	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0039	0.0053	< 0.010	0.051	0.5	10	50
Antimony	1450	U	0.0040	0.016	< 0.010	0.14	0.06	0.7	5
Selenium	1450	U	0.0018	0.0021	< 0.010	0.021	0.1	0.5	7
Zinc	1450	U	0.025	0.026	< 0.50	< 0.50	4	50	200
Chloride	1220	U	13	2.9	26	43	800	15000	25000
Fluoride	1220	U	0.23	0.36	< 1.0	3.4	10	150	500
Sulphate	1220	U	670	720	1300	7100	1000	20000	50000
Total Dissolved Solids	1020	N	740	730	1500	7300	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	13	11	< 50	110	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.319
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.249

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08087						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	596645								
Sample Ref:									
Sample ID:	S117								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	21-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			1.7	3	5	6
Loss On Ignition	2610	U	%			4.3	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			34	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			120	100	--	--
pH	2010	U				9.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.029	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0048	0.0042	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.052	0.039	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0020	0.0016	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.010	0.0080	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.012	0.019	< 0.050	0.18	0.5	10	30
Nickel	1450	U	0.0030	0.0014	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.018	0.0011	0.036	0.040	0.5	10	50
Antimony	1450	U	0.0033	0.0060	< 0.010	0.055	0.06	0.7	5
Selenium	1450	U	< 0.0010	0.0012	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.019	0.0021	< 0.50	< 0.50	4	50	200
Chloride	1220	U	4.6	1.5	< 10	20	800	15000	25000
Fluoride	1220	U	0.37	0.58	< 1.0	5.4	10	150	500
Sulphate	1220	U	75	37	150	440	1000	20000	50000
Total Dissolved Solids	1020	N	160	78	320	920	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	13	13	< 50	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	14

Leachate Test Information	
Leachant volume 1st extract/l	0.321
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.303

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

UKAS TESTING
2183

Final Report

Report No.:	18-08590-1
Initial Date of Issue:	09-Apr-2018
Client	LK Consult
Client Address:	Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester Lancashire M26 2ZS
Contact(s):	Colin Crompton Contaminated Land
Project	LKC 17 1257 - Blackleys

Quotation No.:		**Date Received:**	28-Mar-2018
Order No.:	736013	**Date Instructed:**	28-Mar-2018
No. of Samples:	6		
Turnaround (Wkdays):	7	**Results Due:**	09-Apr-2018
Date Approved:	09-Apr-2018		

Approved By:



Details: Glynn Harvey, Laboratory Manager

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598940								
Sample Ref:									
Sample ID:	S120								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			3.8	3	5	6
Loss On Ignition	2610	U	%			4.8	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			120	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			53	100	--	--
pH	2010	U				8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.049	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0031	0.0039	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.048	0.044	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0014	0.0017	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0037	0.0050	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.026	0.018	0.051	0.19	0.5	10	30
Nickel	1450	U	0.0028	0.0021	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0012	0.0019	< 0.010	0.018	0.5	10	50
Antimony	1450	U	0.0064	0.0070	0.013	0.069	0.06	0.7	5
Selenium	1450	U	0.0020	0.0013	< 0.010	0.014	0.1	0.5	7
Zinc	1450	U	0.0077	0.0062	< 0.50	< 0.50	4	50	200
Chloride	1220	U	8.9	3.6	18	44	800	15000	25000
Fluoride	1220	U	0.27	0.53	< 1.0	4.9	10	150	500
Sulphate	1220	U	160	84	320	960	1000	20000	50000
Total Dissolved Solids	1020	N	310	200	610	2200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	16	12	< 50	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	16

Leachate Test Information	
Leachant volume 1st extract/l	0.316
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.272

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598941								
Sample Ref:									
Sample ID:	S122								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			1.5	3	5	6
Loss On Ignition	2610	U	%			3.4	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			46	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			24	100	--	--
pH	2010	U				8.5	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.029	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0078	0.0086	< 0.050	0.085	0.5	2	25
Barium	1450	U	0.026	0.012	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0031	0.0021	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.018	0.0065	< 0.050	< 0.050	2	50	100
Mercury	1450	U	0.00063	< 0.00050	0.0012	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.030	0.0093	0.059	0.12	0.5	10	30
Nickel	1450	U	0.0040	0.0017	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	0.0014	< 0.010	0.012	0.5	10	50
Antimony	1450	U	0.0042	0.0032	< 0.010	0.033	0.06	0.7	5
Selenium	1450	U	0.0015	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.0083	0.0029	< 0.50	< 0.50	4	50	200
Chloride	1220	U	7.9	1.9	16	27	800	15000	25000
Fluoride	1220	U	0.80	0.63	1.6	6.5	10	150	500
Sulphate	1220	U	150	52	290	650	1000	20000	50000
Total Dissolved Solids	1020	N	250	77	490	1000	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	20	19	< 50	190	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.319
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.235

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598942								
Sample Ref:									
Sample ID:	S124								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			1.8	3	5	6
Loss On Ignition	2610	U	%			3.8	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			21	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			23	100	--	--
pH	2010	U				8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.059	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0037	0.0031	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.070	0.052	< 0.50	0.54	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	0.0012	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0032	0.0021	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.041	0.020	0.081	0.23	0.5	10	30
Nickel	1450	U	0.0044	0.0027	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0010	0.0013	< 0.010	0.013	0.5	10	50
Antimony	1450	U	0.0056	0.0038	0.011	0.040	0.06	0.7	5
Selenium	1450	U	0.0013	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.012	0.0075	< 0.50	< 0.50	4	50	200
Chloride	1220	U	5.6	1.4	11	19	800	15000	25000
Fluoride	1220	U	0.39	0.44	< 1.0	4.3	10	150	500
Sulphate	1220	U	300	130	590	1500	1000	20000	50000
Total Dissolved Solids	1020	N	450	270	890	2900	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	150	31	300	460	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	14

Leachate Test Information	
Leachant volume 1st extract/l	0.322
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.223

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598943								
Sample Ref:									
Sample ID:	S126								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			7.6	3	5	6
Loss On Ignition	2610	U	%			7.6	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			2400	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			2000	100	--	--
pH	2010	U				8.6	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.14	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0079	0.0096	< 0.050	0.093	0.5	2	25
Barium	1450	U	0.027	0.016	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0048	0.0025	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0036	0.0029	< 0.050	< 0.050	2	50	100
Mercury	1450	U	0.00055	< 0.00050	0.0011	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.046	0.0095	0.091	0.16	0.5	10	30
Nickel	1450	U	0.0014	< 0.0010	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50
Antimony	1450	U	0.0052	0.0041	0.010	0.043	0.06	0.7	5
Selenium	1450	U	0.0022	0.0016	< 0.010	0.017	0.1	0.5	7
Zinc	1450	U	0.019	0.0082	< 0.50	< 0.50	4	50	200
Chloride	1220	U	2.7	1.1	< 10	14	800	15000	25000
Fluoride	1220	U	0.37	0.36	< 1.0	3.6	10	150	500
Sulphate	1220	U	510	89	1000	1600	1000	20000	50000
Total Dissolved Solids	1020	N	600	150	1200	2200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	19	14	< 50	150	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	13

Leachate Test Information	
Leachant volume 1st extract/l	0.323
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.291

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598944								
Sample Ref:									
Sample ID:	S128								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			2.2	3	5	6
Loss On Ignition	2610	U	%			5.2	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			120	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			180	100	--	--
pH	2010	U				10.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.062	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0072	0.014	< 0.050	0.13	0.5	2	25
Barium	1450	U	0.022	0.014	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0021	0.0027	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0075	0.010	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.026	0.015	0.051	0.16	0.5	10	30
Nickel	1450	U	0.0026	0.0023	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	0.0024	< 0.010	0.021	0.5	10	50
Antimony	1450	U	0.0039	0.0051	< 0.010	0.049	0.06	0.7	5
Selenium	1450	U	0.0016	0.0018	< 0.010	0.018	0.1	0.5	7
Zinc	1450	U	0.0079	0.0056	< 0.50	< 0.50	4	50	200
Chloride	1220	U	4.7	2.5	< 10	28	800	15000	25000
Fluoride	1220	U	0.44	0.55	< 1.0	5.3	10	150	500
Sulphate	1220	U	170	95	340	1000	1000	20000	50000
Total Dissolved Solids	1020	N	280	120	550	1400	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	18	14	< 50	150	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.320
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.224

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: LKC 17 1257 - Blackleys

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	18-08590						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	598945								
Sample Ref:									
Sample ID:	S130								
Top Depth(m):									
Bottom Depth(m):									
Sampling Date:	26-Mar-2018								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			2.2	3	5	6
Loss On Ignition	2610	U	%			4.8	--	--	10
Total BTEX	2760	U	mg/kg			0.57	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			31	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			59	100	--	--
pH	2010	U				8.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.084	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1450	U	0.0057	0.0045	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.064	0.019	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.0051	0.0016	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0070	0.0036	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.040	0.0073	0.079	0.11	0.5	10	30
Nickel	1450	U	0.0034	0.0010	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50
Antimony	1450	U	0.0073	0.0031	0.014	0.036	0.06	0.7	5
Selenium	1450	U	0.0029	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.019	0.0044	< 0.50	< 0.50	4	50	200
Chloride	1220	U	9.9	1.9	20	28	800	15000	25000
Fluoride	1220	U	0.71	0.47	1.4	5.0	10	150	500
Sulphate	1220	U	540	96	1100	1500	1000	20000	50000
Total Dissolved Solids	1020	N	630	160	1200	2200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	16	14	< 50	140	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	16

Leachate Test Information	
Leachant volume 1st extract/l	0.317
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.208

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Chemtest
The right chemistry to deliver results

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest
The right chemistry to deliver results
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Amended Report

Report No.:	18-08085-2		
Initial Date of Issue:	03-Apr-2018	**Date of Re-Issue:**	12-Apr-2018
Client	LK Consult		
Client Address:	Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester Lancashire M26 2ZS		
Contact(s):	Colin Crompton Contaminated Land		
Project	LKC 17 1257 Blackleys		
Quotation No.:		**Date Received:**	23-Mar-2018
Order No.:	736013	**Date Instructed:**	23-Mar-2018
No. of Samples:	18		
Turnaround (Wkdays):	11	**Results Due:**	10-Apr-2018
Date Approved:	12-Apr-2018		

Approved By:



Details: Glynn Harvey, Laboratory Manager
Robert Monk, Technical Manager

Chemtest
The right chemistry to deliver results

Results - Leachate

Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596611	596613	596615	596616	596618	596619	596621	596622	596624
		Client Sample ID.:			S101	S103	S105	S106	S108	S109	S111	S112	S114
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
pH	U	1010		N/A	9.1	7.7	7.9	7.8	10.8	9.6	9.4	7.9	8.0
Sulphate	U	1220	mg/l	1.0	120	1600	290	450	150	280	1000	410	320
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hardness	U	1415	mg/l	15	220	1700	320	430	190	330	1100	440	390
Arsenic (Dissolved)	U	1450	µg/l	1.0	12	2.8	4.2	3.4	7.2	9.1	7.0	4.0	2.7
Boron (Dissolved)	U	1450	µg/l	20	170	< 20	73	59	88	54	65	88	83
Cadmium (Dissolved)	U	1450	µg/l	0.080	0.48	0.10	0.12	< 0.080	0.16	0.093	0.091	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	µg/l	1.0	2.6	39	2.2	2.2	11	1.6	3.8	1.5	3.0
Copper (Dissolved)	U	1450	µg/l	1.0	12	7.6	5.8	5.6	8.5	15	49	6.5	6.0
Nickel (Dissolved)	U	1450	µg/l	1.0	9.6	2.9	1.6	1.5	1.1	2.4	4.5	2.2	2.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	3.7	2.6	1.6	1.9	2.9	4.1	4.2	3.6	2.7
Vanadium (Dissolved)	U	1450	µg/l	1.0	28	2.1	2.7	2.4	6.7	7.3	24	2.9	1.1
Zinc (Dissolved)	U	1450	µg/l	1.0	22	51	12	15	8.9	11	26	14	13
Mercury Low Level	U	1460	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	36	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Total Organic Carbon	U	1610	mg/l	2.0	49	28	18	17	13	21	22	21	19
Fuel Type	N	1670		N/A	N/A	N/A	N/A	N/A	PAH	N/A	N/A	N/A	N/A
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	48	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	160	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	400	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	27	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	630	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	630	< 10	< 10	< 10	< 10
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
The right chemistry to deliver results

Results - Leachate

Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596611	596613	596615	596616	596618	596619	596621	596622	596624
		Client Sample ID.:			S101	S103	S105	S106	S108	S109	S111	S112	S114
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Results - Leachate

Project: LKC 17 1257 Blackleys

Client: LK Consult		Chemtest Job No.:			18-08085	18-08085
Quotation No.:		Chemtest Sample ID.:			596626	596628
			Client Sample ID.:		S116	S118
			Sample Type:		SOIL	SOIL
			Date Sampled:		21-Mar-2018	21-Mar-2018
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	8.0	8.7
Sulphate	U	1220	mg/l	1.0	160	98
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Hardness	U	1415	mg/l	15	270	210
Arsenic (Dissolved)	U	1450	µg/l	1.0	3.6	3.4
Boron (Dissolved)	U	1450	µg/l	20	68	75
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	µg/l	1.0	20	1.5
Copper (Dissolved)	U	1450	µg/l	1.0	8.3	7.0
Nickel (Dissolved)	U	1450	µg/l	1.0	1.9	2.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	2.5	2.1
Vanadium (Dissolved)	U	1450	µg/l	1.0	2.8	2.3
Zinc (Dissolved)	U	1450	µg/l	1.0	8.4	5.3
Mercury Low Level	U	1460	µg/l	0.010	< 0.010	< 0.010
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Total Organic Carbon	U	1610	mg/l	2.0	17	20
Fuel Type	N	1670		N/A	PAH	PAH
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	61
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	60	56
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	89	54
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	200	120
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	15
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	350	300
Total Petroleum Hydrocarbons	N	1675	µg/l	10	350	300
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0

Results - Leachate

Project: LKC 17 1257 Blackleys

Client: LK Consult			Chemtest Job No.:		18-08085	18-08085
Quotation No.:			Chemtest Sample ID.:		596626	596628
			Client Sample ID.:		S116	S118
			Sample Type:		SOIL	SOIL
			Date Sampled:		21-Mar-2018	21-Mar-2018
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0
Naphthalene	N	1800	µg/l	0.010	< 0.010	< 0.010
Acenaphthylene	N	1800	µg/l	0.010	< 0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010	< 0.010
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Chemtest
The right chemistry to deliver results

Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult				**Chemtest Job No.:**	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:				**Chemtest Sample ID.:**	596611	596612	596613	596614	596615	596616	596617	596618
				Client Sample ID.:	S101	S102	S103	S104	S105	S106	S107	S108
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	Fibres/Clumps	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001				0.003				
Total Asbestos	N	2192	%	0.001				0.003				
Moisture	N	2030	%	0.020	17	29	16	18	16	15	16	19
Soil Colour	N	2040		N/A	Brown	Brown,	Brown,	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones, Roots	Stones, Roots	Stones, Roots, Brick	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Sand	Loam	Clay	Sand,
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	9.7	7.6	8.8	7.9	8.3	9.2	8.3	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.57	1.1	1.6	3.1	0.70	0.61	0.65	1.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.78	0.061	1.7	1.4	0.36	0.39	0.42	0.24
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80
Arsenic	M	2450	mg/kg	1.0	17	13	24	61	25	28	28	71
Cadmium	M	2450	mg/kg	0.10	0.16	0.42	0.23	0.24	0.31	0.23	0.23	0.41
Chromium	M	2450	mg/kg	1.0	21	16	19	42	29	32	25	28
Copper	M	2450	mg/kg	0.50	21	34	87	560	52	53	63	240
Mercury	M	2450	mg/kg	0.10	< 0.10	0.17	0.19	0.15	0.32	0.67	0.45	0.72
Nickel	M	2450	mg/kg	0.50	21	18	18	29	28	29	25	58
Lead	M	2450	mg/kg	0.50	32	61	320	560	120	120	140	490
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	0.70	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	24	21	23	42	31	32	28	56
Zinc	M	2450	mg/kg	0.50	56	270	290	150	110	100	110	440
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.7	7.4	2.4	9.0	3.8	2.8	3.1	17
Fuel Type	N	2670		N/A	Lube/PAH	N/A	Indiscernible	Lube	PAH	PAH	PAH	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	73	< 1.0	310	33	32	30	33	19
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	73	< 5.0	310	33	32	30	33	19
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596611	596612	596613	596614	596615	596616	596617	596618
		Client Sample ID.:			S101	S102	S103	S104	S105	S106	S107	S108
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	150	< 1.0	11	< 1.0	1.1	23
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	220	< 1.0	14	260	120	20	1.6	110
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	220	< 5.0	170	260	130	20	< 5.0	140
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	300	< 10	480	290	160	50	35	160
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	0.15	0.34	0.89	0.23	0.66	0.65	0.68	0.97
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	0.13	0.19	0.43	0.11	0.31
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	1.2	0.58	1.1	1.9
Fluorene	M	2800	mg/kg	0.10	0.10	< 0.10	0.72	0.20	1.0	0.68	0.77	1.4
Phenanthrene	M	2800	mg/kg	0.10	0.64	0.70	6.0	2.1	7.6	7.0	7.4	11
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.13	1.0	0.33	1.8	2.0	1.5	2.9
Fluoranthene	M	2800	mg/kg	0.10	0.69	1.0	4.5	2.7	11	9.3	9.1	17
Pyrene	M	2800	mg/kg	0.10	0.63	0.90	4.3	2.5	9.3	7.9	8.0	15
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.20	0.41	1.6	0.74	4.2	4.1	3.7	6.6
Chrysene	M	2800	mg/kg	0.10	0.24	0.50	2.1	1.1	5.1	4.4	3.8	8.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.28	0.59	2.0	1.1	5.6	4.8	4.8	9.7
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.11	0.17	0.74	0.42	2.4	1.8	1.8	4.1
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.14	0.37	1.6	0.86	4.5	3.9	3.9	8.2
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.25	0.76	0.58	3.6	2.9	2.9	6.2
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	< 0.10	0.57	0.49	0.45	0.95
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	0.28	0.95	0.62	3.0	2.5	2.4	4.6
Total Of 16 PAH's	N	2800	mg/kg	2.0	3.2	5.6	28	14	62	53	52	99
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult				**Chemtest Job No.:**	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:				**Chemtest Sample ID.:**	596619	596620	596621	596622	596623	596624	596625	596626
				Client Sample ID.:	S109	S110	S111	S112	S113	S114	S115	S116
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001								
Total Asbestos	N	2192	%	0.001								
Moisture	N	2030	%	0.020	19	17	12	16	18	16	18	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones, Roots	Stones, Roots	Stones, Roots	Stones	Stones	Stones, Roots	Stones, Roots	Stones, Roots
Soil Texture	N	2040		N/A	Clay,	Loam	Clay	Clay	Clay	Clay	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	7.8	8.2	10.1	9.0	8.2	8.5	7.8	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.0	0.85	0.70	0.97	0.72	0.60	0.49	0.54
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.88	0.49	1.2	0.76	0.15	0.35	0.14	0.16
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	24	31	22	21	18	18	17	15
Cadmium	M	2450	mg/kg	0.10	0.37	0.28	0.20	0.23	0.24	0.26	0.15	0.15
Chromium	M	2450	mg/kg	1.0	24	53	21	26	32	24	30	30
Copper	M	2450	mg/kg	0.50	59	66	55	50	59	46	54	64
Mercury	M	2450	mg/kg	0.10	0.38	1.5	0.23	0.36	0.26	0.24	0.28	0.28
Nickel	M	2450	mg/kg	0.50	25	37	21	30	25	26	49	21
Lead	M	2450	mg/kg	0.50	160	130	120	130	100	110	140	94
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	29	31	26	34	28	25	30	30
Zinc	M	2450	mg/kg	0.50	160	110	140	120	100	93	120	96
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	3.3	6.4	2.1	2.8	3.8	4.0	4.1	5.2
Fuel Type	N	2670		N/A	PAH	PAH	PAH	PAH	PAH	PAH/Lube	PAH/H.Oil	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	110	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	31	38	11	13	76	220	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	31	38	11	13	76	330	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
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Results - Soil

Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596619	596620	596621	596622	596623	596624	596625	596626
		Client Sample ID.:			S109	S110	S111	S112	S113	S114	S115	S116
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	14	< 1.0	1.1	9.3	1.6	< 1.0	8.5
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	9.3	95	46	11	29	180	74	13
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	9.3	110	46	12	39	190	74	21
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	140	84	24	52	260	410	21
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	1.4	4.2	0.16	0.14	0.14	0.22	1.0	0.35
Acenaphthylene	N	2800	mg/kg	0.10	0.14	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	1.1	8.7	< 0.10	< 0.10	< 0.10	0.47	1.0	0.43
Fluorene	M	2800	mg/kg	0.10	1.7	8.0	< 0.10	< 0.10	0.18	0.53	1.3	0.52
Phenanthrene	M	2800	mg/kg	0.10	23	77	3.5	4.0	3.3	8.4	10	4.3
Anthracene	M	2800	mg/kg	0.10	4.6	18	0.47	0.67	0.54	1.5	2.1	0.71
Fluoranthene	M	2800	mg/kg	0.10	28	93	5.4	8.3	5.7	12	14	5.6
Pyrene	M	2800	mg/kg	0.10	24	81	4.9	7.3	5.2	10	12	5.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	8.2	28	1.5	2.8	1.8	3.7	5.1	1.8
Chrysene	M	2800	mg/kg	0.10	9.6	32	2.1	3.8	2.4	4.4	6.1	2.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	8.2	29	1.6	3.4	2.2	4.4	5.7	2.2
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	3.2	13	0.38	1.3	0.64	1.8	2.3	0.78
Benzo[a]pyrene	M	2800	mg/kg	0.10	6.4	24	0.92	2.2	1.5	3.3	4.3	1.7
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	4.7	17	0.56	1.6	1.0	2.1	2.7	0.98
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.73	2.6	< 0.10	0.18	< 0.10	0.26	0.36	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	5.2	17	0.86	1.8	1.1	2.2	3.0	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	130	450	22	38	26	55	71	27
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Results - Soil

Project: LKC 17 1257 Blackleys

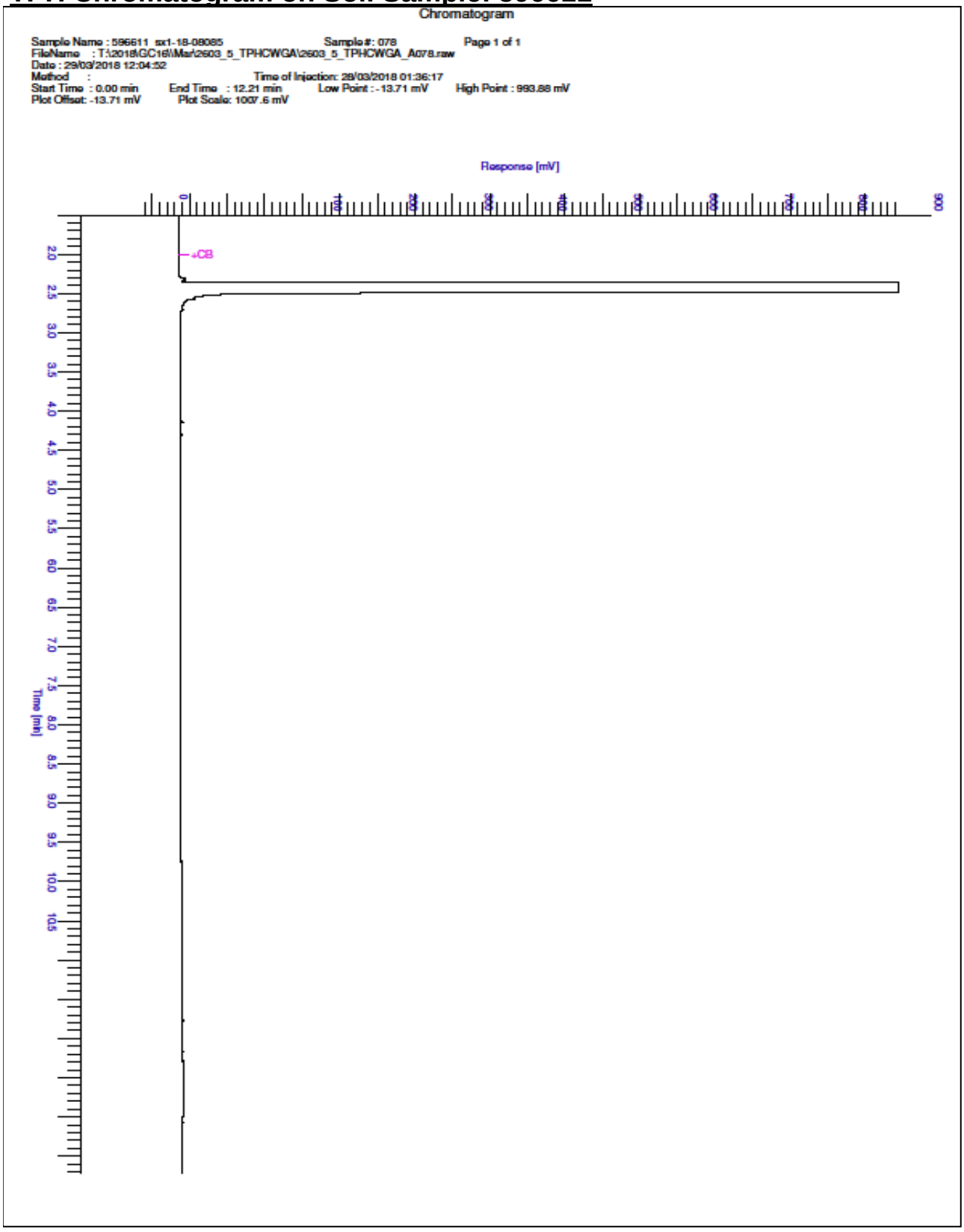
Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596627	596628
		Client Sample ID.:			S117	S118
		Sample Type:			SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001		
Total Asbestos	N	2192	%	0.001		
Moisture	N	2030	%	0.020	15	20
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached
pH	M	2010		N/A	9.1	8.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.67	0.57
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.38	0.17
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	16	29
Cadmium	M	2450	mg/kg	0.10	0.15	0.25
Chromium	M	2450	mg/kg	1.0	22	33
Copper	M	2450	mg/kg	0.50	39	120
Mercury	M	2450	mg/kg	0.10	0.16	0.36
Nickel	M	2450	mg/kg	0.50	24	42
Lead	M	2450	mg/kg	0.50	77	150
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	24	38
Zinc	M	2450	mg/kg	0.50	68	160
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.2	5.3
Fuel Type	N	2670		N/A	PAH/Lube	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	5.1	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	12	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	58	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	75	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

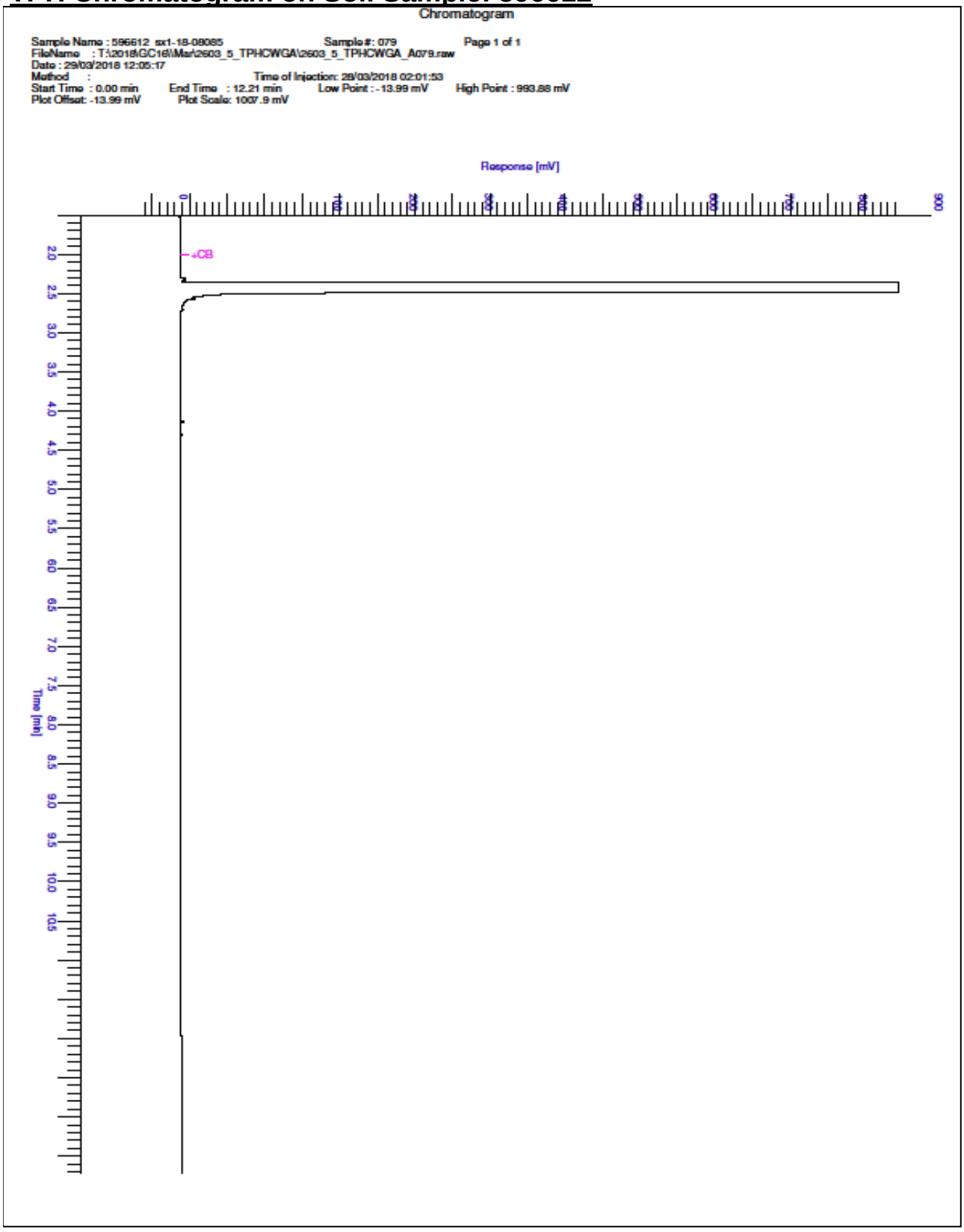
Project: LKC 17 1257 Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08085	18-08085
Quotation No.:		**Chemtest Sample ID.:**			596627	596628
		Client Sample ID.:			S117	S118
		Sample Type:			SOIL	SOIL
		Date Sampled:			21-Mar-2018	21-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	14	7.4
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	240	17
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	260	24
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	330	24
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	0.17	0.48
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	0.42
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	0.86
Fluorene	M	2800	mg/kg	0.10	< 0.10	1.2
Phenanthrene	M	2800	mg/kg	0.10	3.1	18
Anthracene	M	2800	mg/kg	0.10	0.70	4.7
Fluoranthene	M	2800	mg/kg	0.10	5.5	36
Pyrene	M	2800	mg/kg	0.10	4.5	31
Benzo[a]anthracene	M	2800	mg/kg	0.10	1.8	15
Chrysene	M	2800	mg/kg	0.10	2.3	15
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	2.1	17
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.84	7.0
Benzo[a]pyrene	M	2800	mg/kg	0.10	1.5	15
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.90	9.9
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	1.9
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.98	9.0
Total Of 16 PAH's	N	2800	mg/kg	2.0	24	180
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30

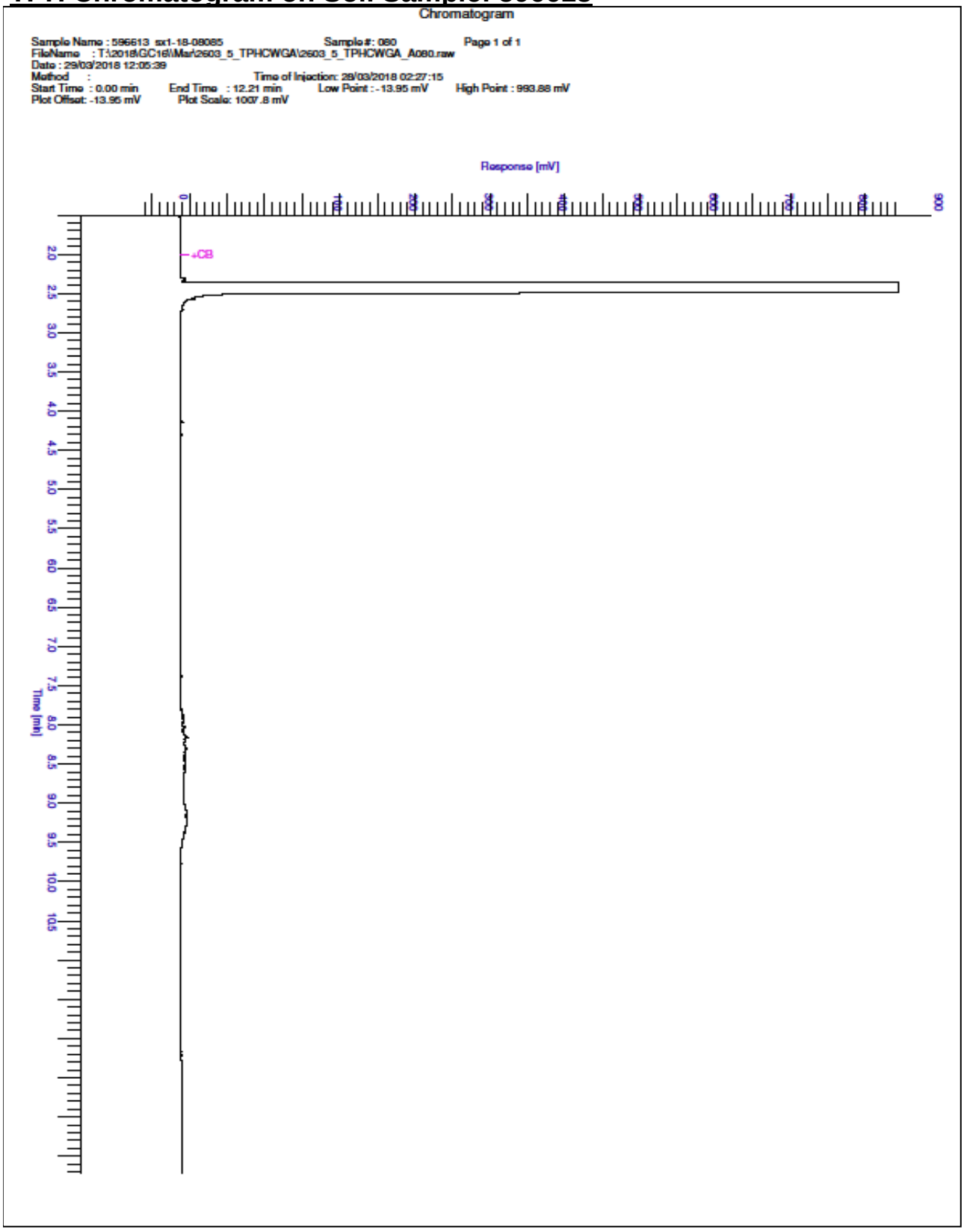
TPH Chromatogram on Soil Sample: 596611



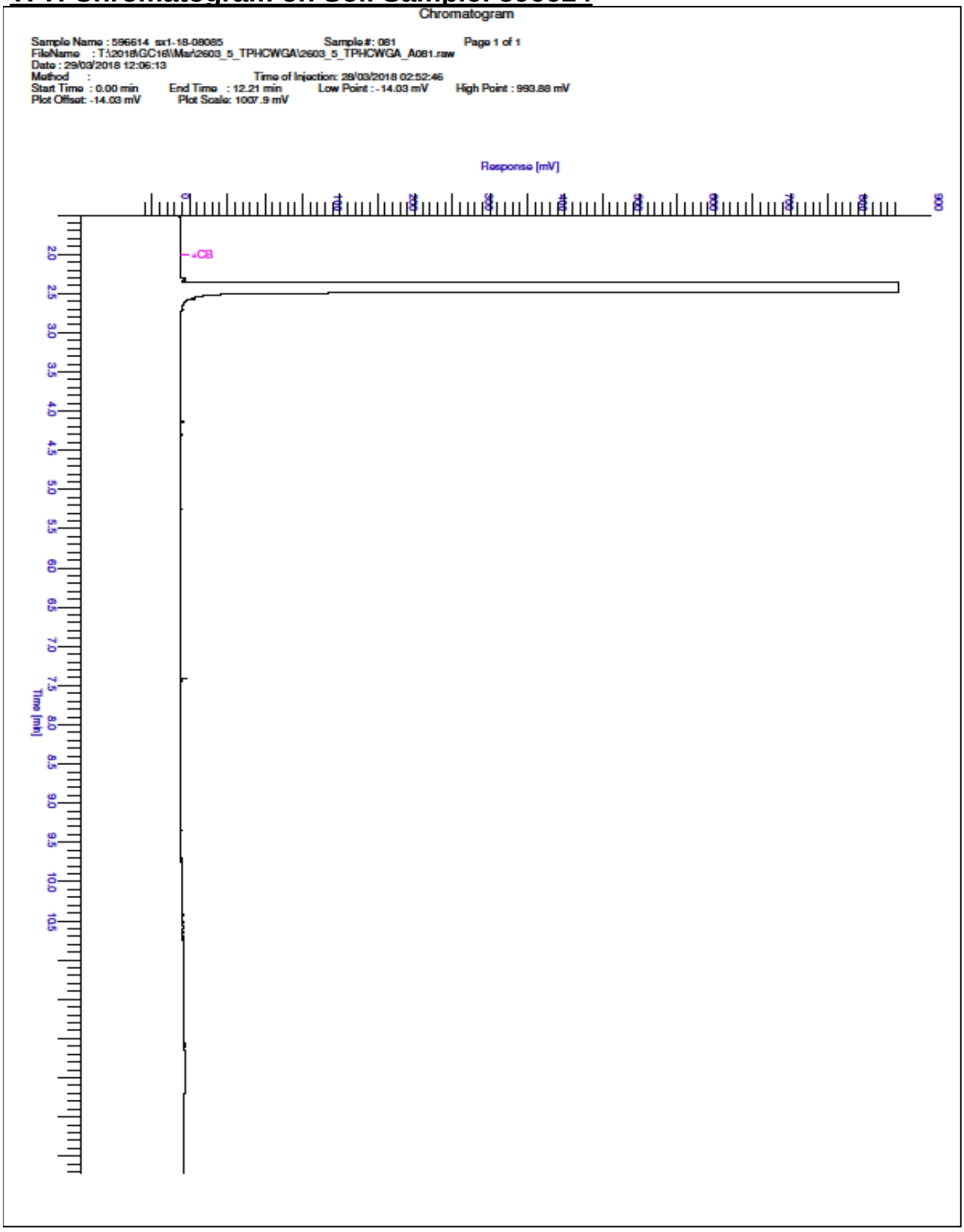
TPH Chromatogram on Soil Sample: 596612



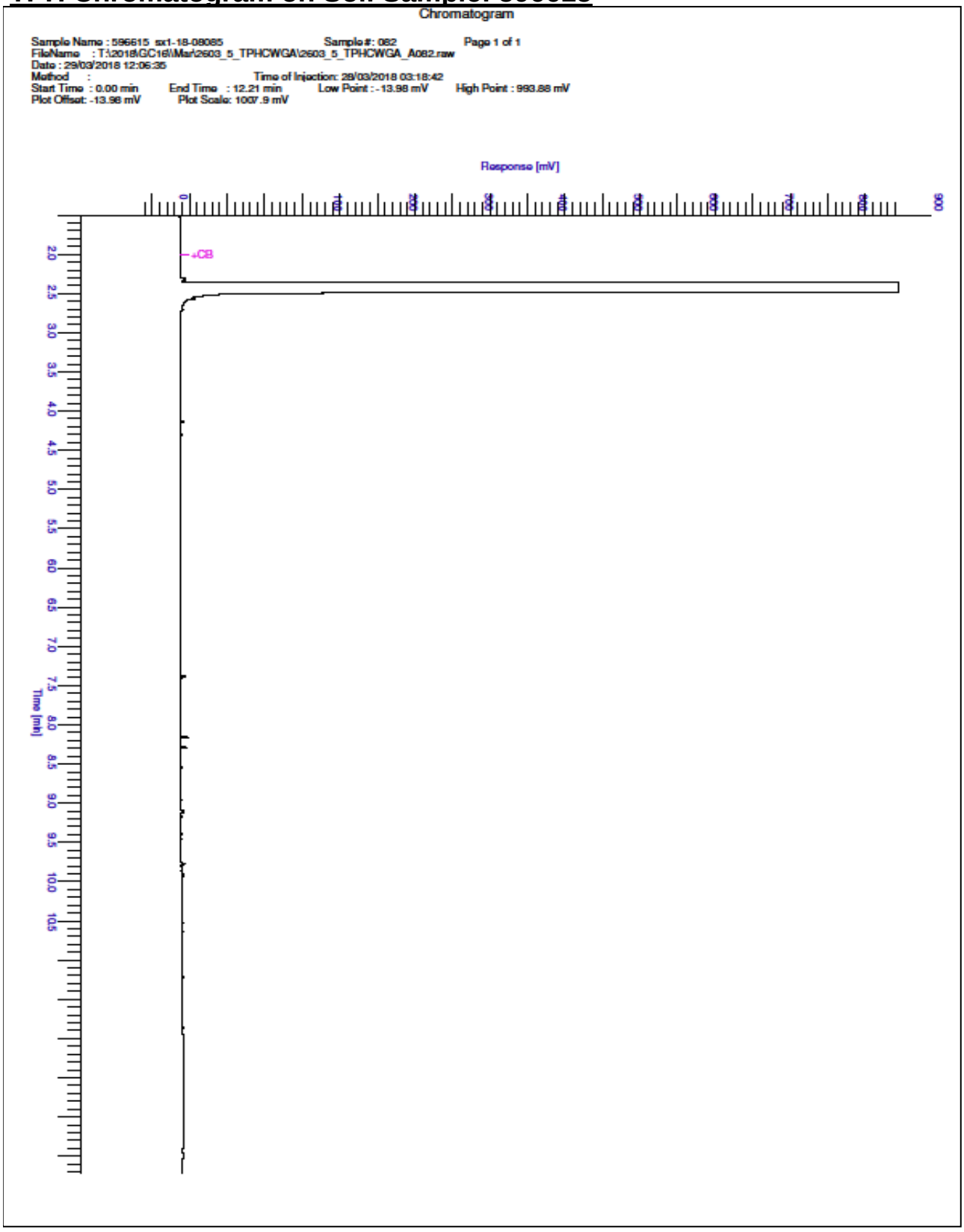
TPH Chromatogram on Soil Sample: 596613



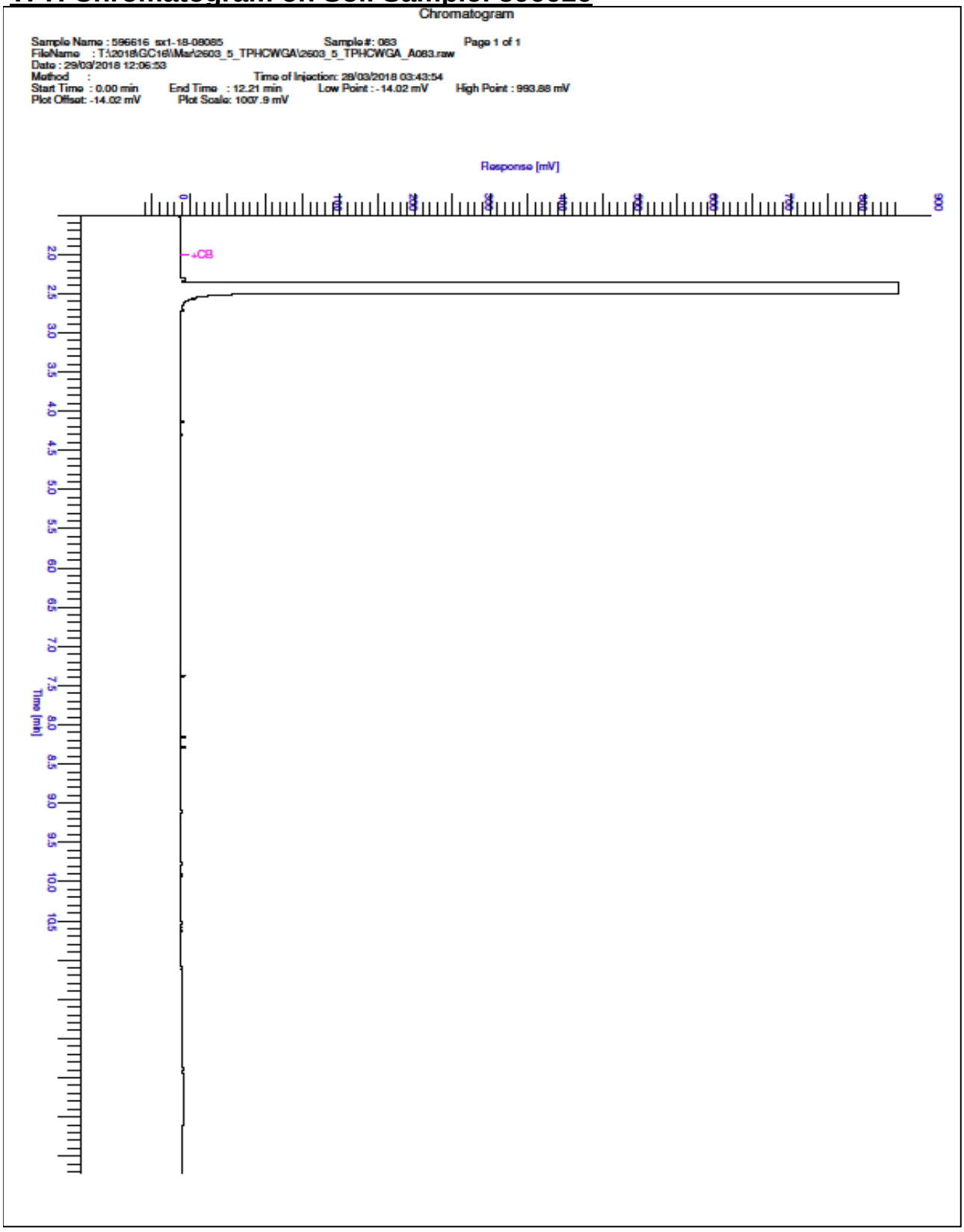
TPH Chromatogram on Soil Sample: 596614



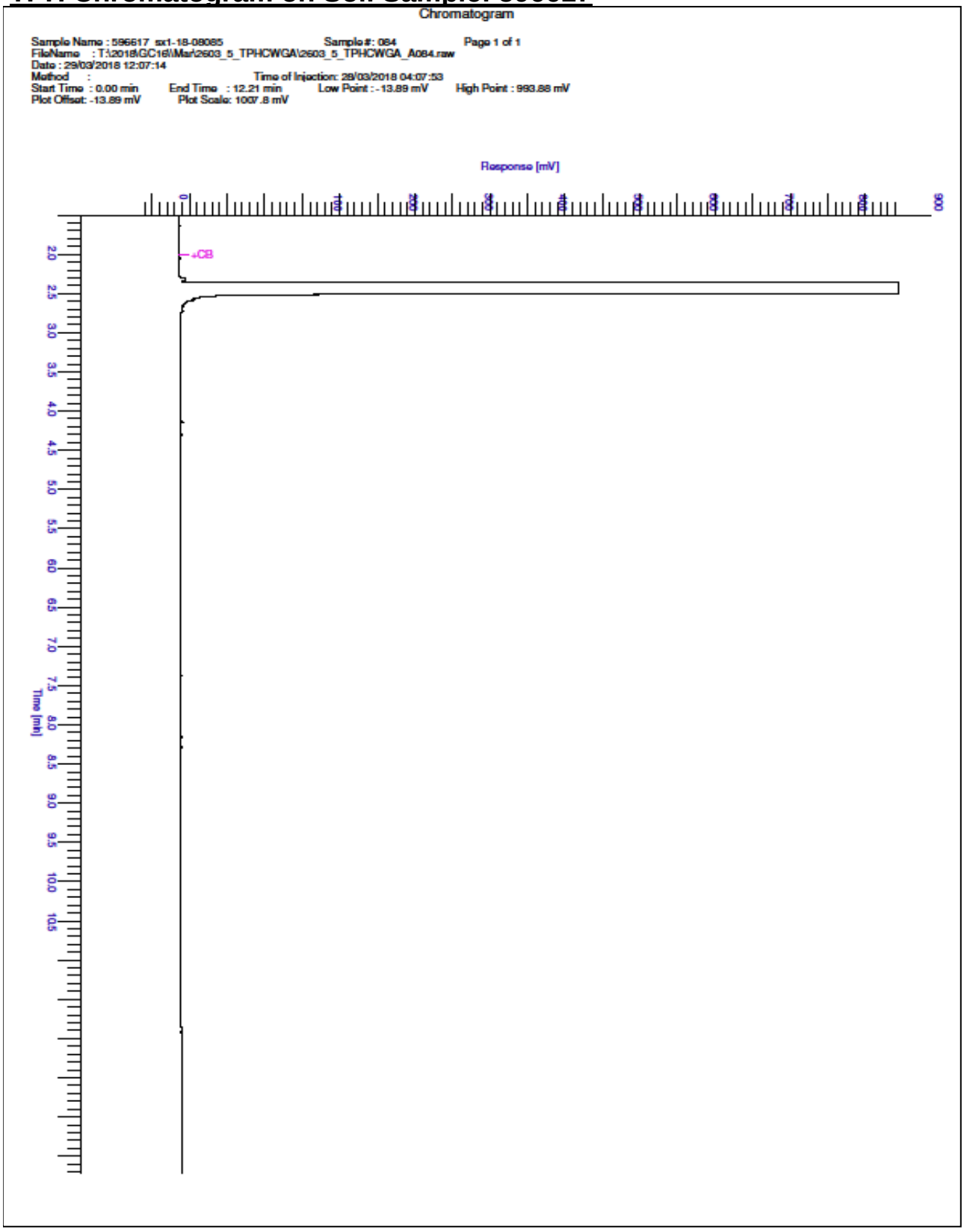
TPH Chromatogram on Soil Sample: 596615



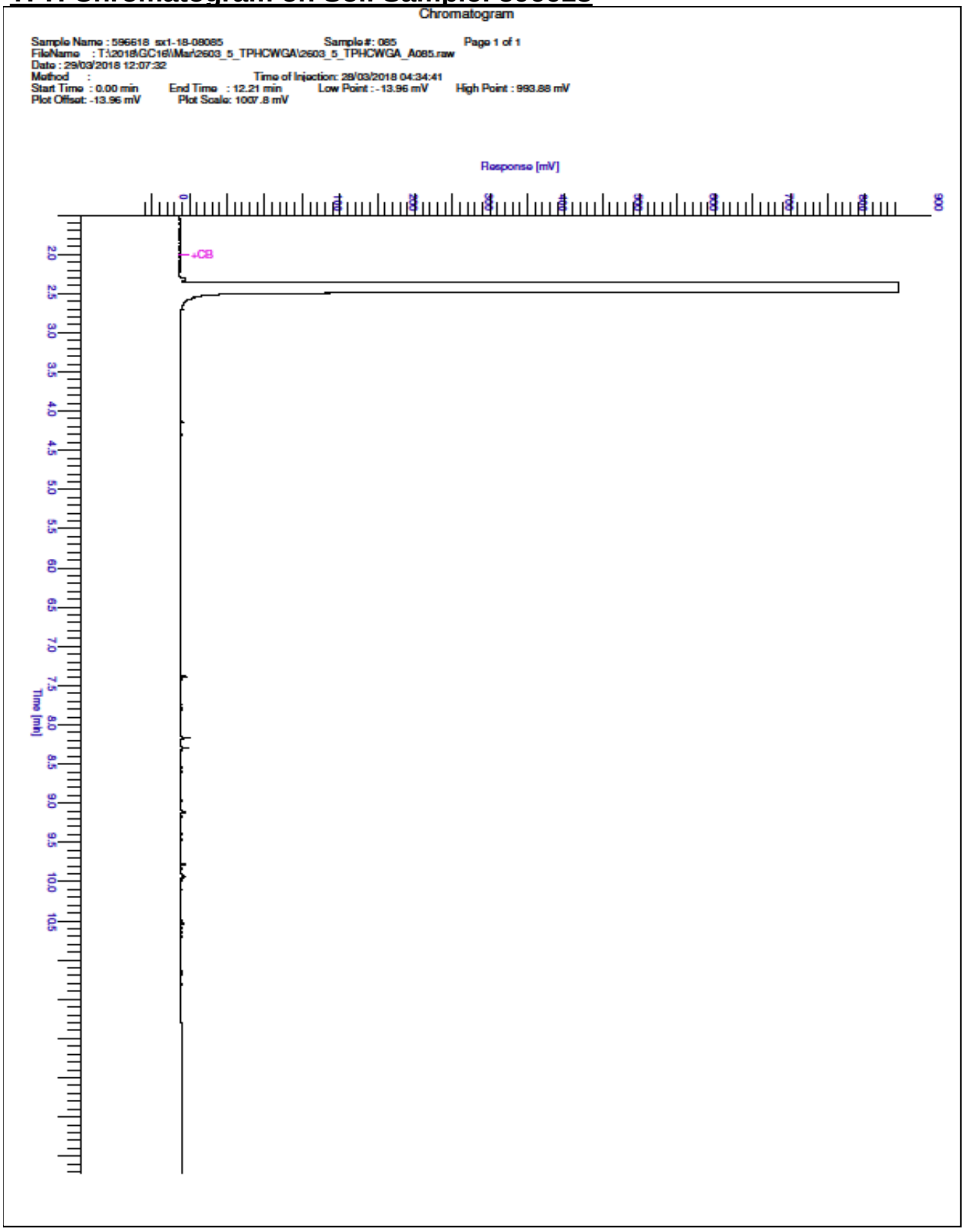
TPH Chromatogram on Soil Sample: 596616



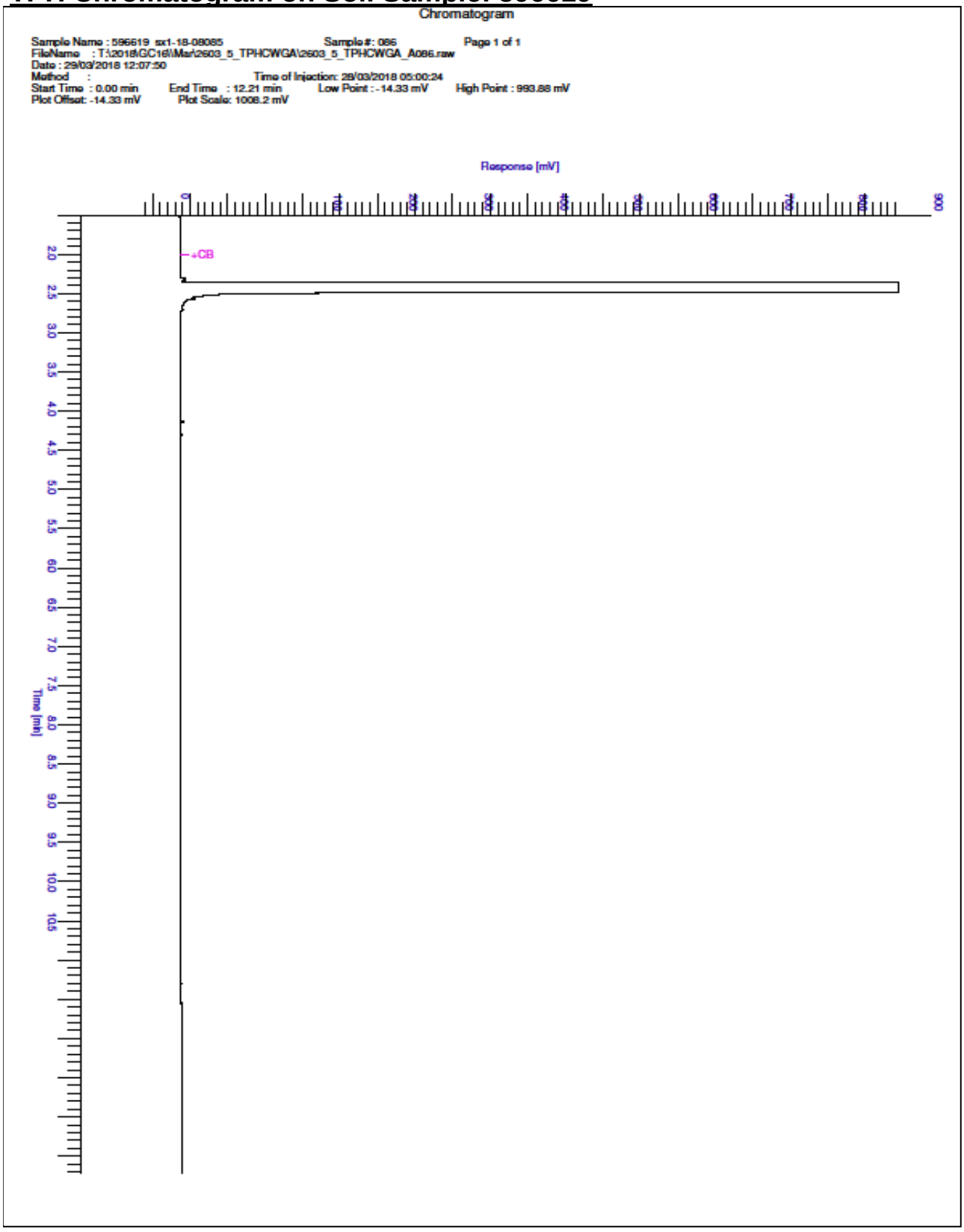
TPH Chromatogram on Soil Sample: 596617



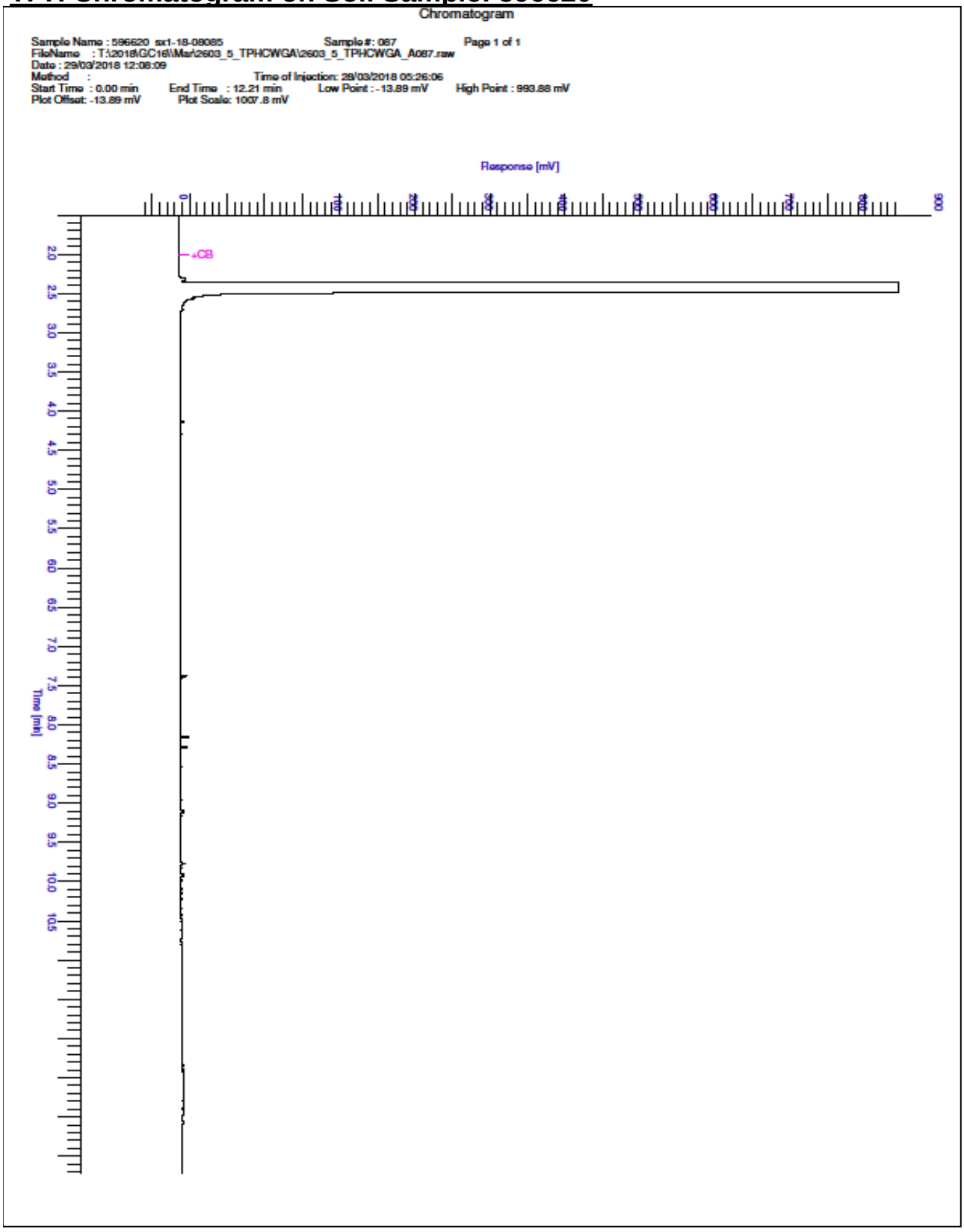
TPH Chromatogram on Soil Sample: 596618



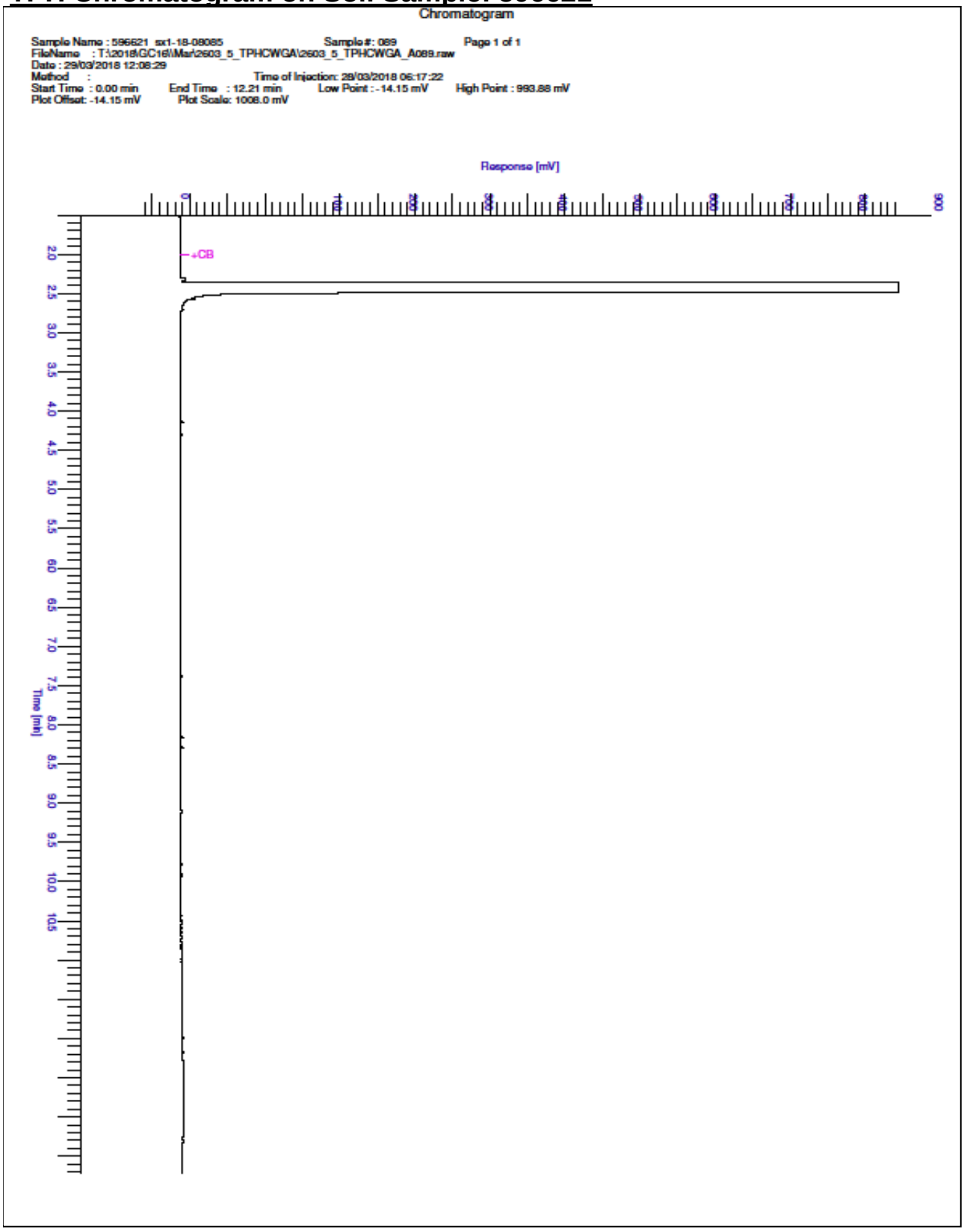
TPH Chromatogram on Soil Sample: 596619



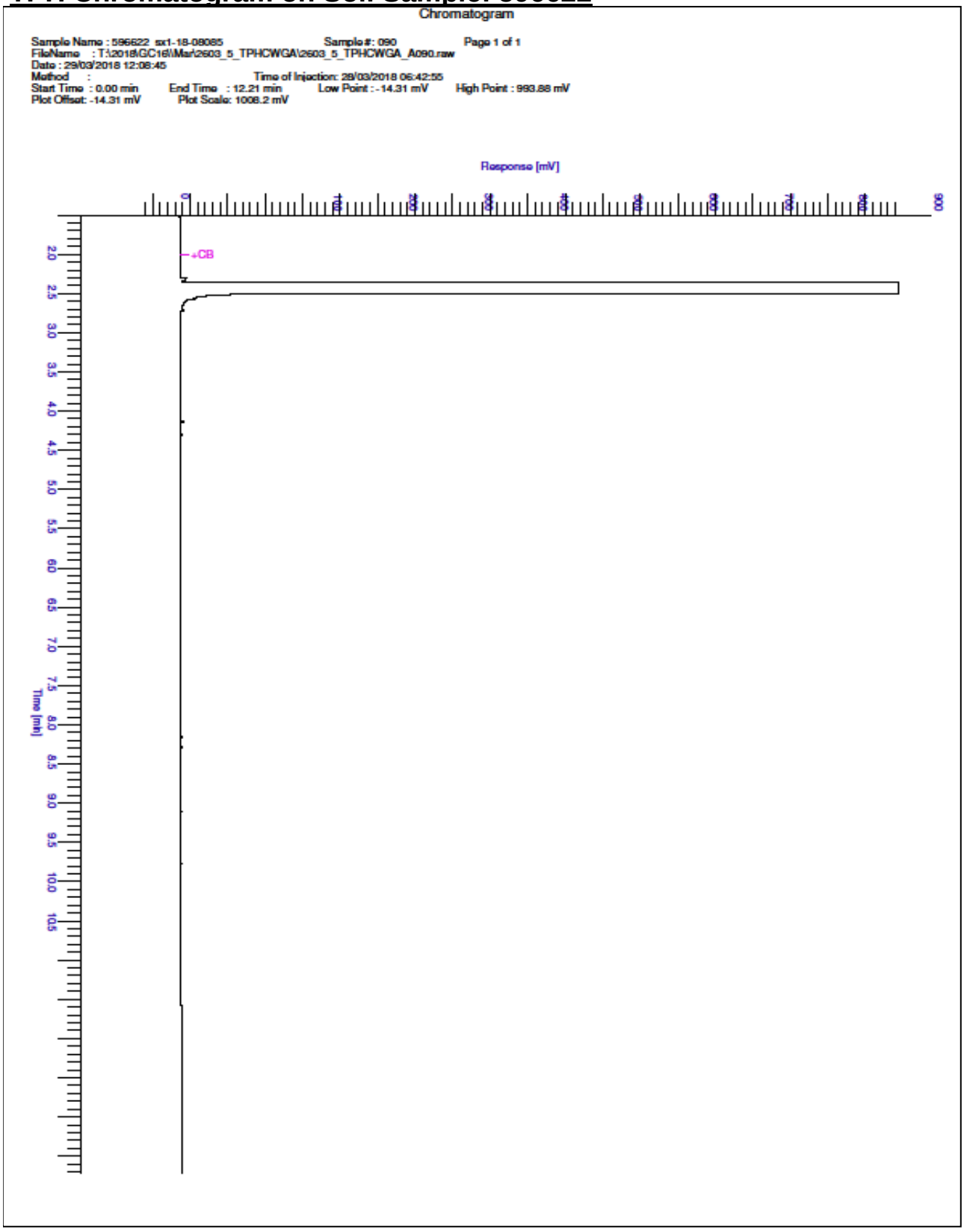
TPH Chromatogram on Soil Sample: 596620



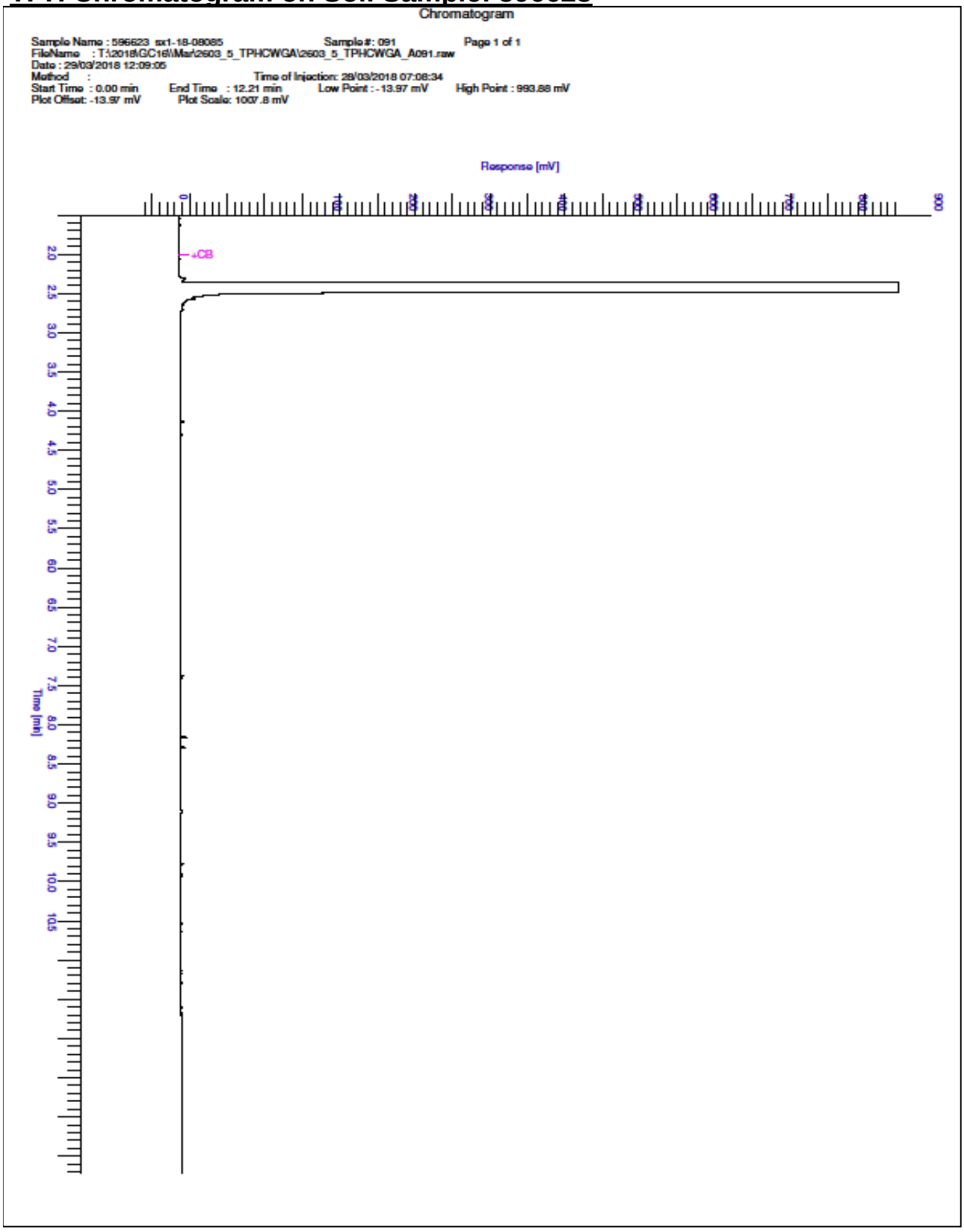
TPH Chromatogram on Soil Sample: 596621



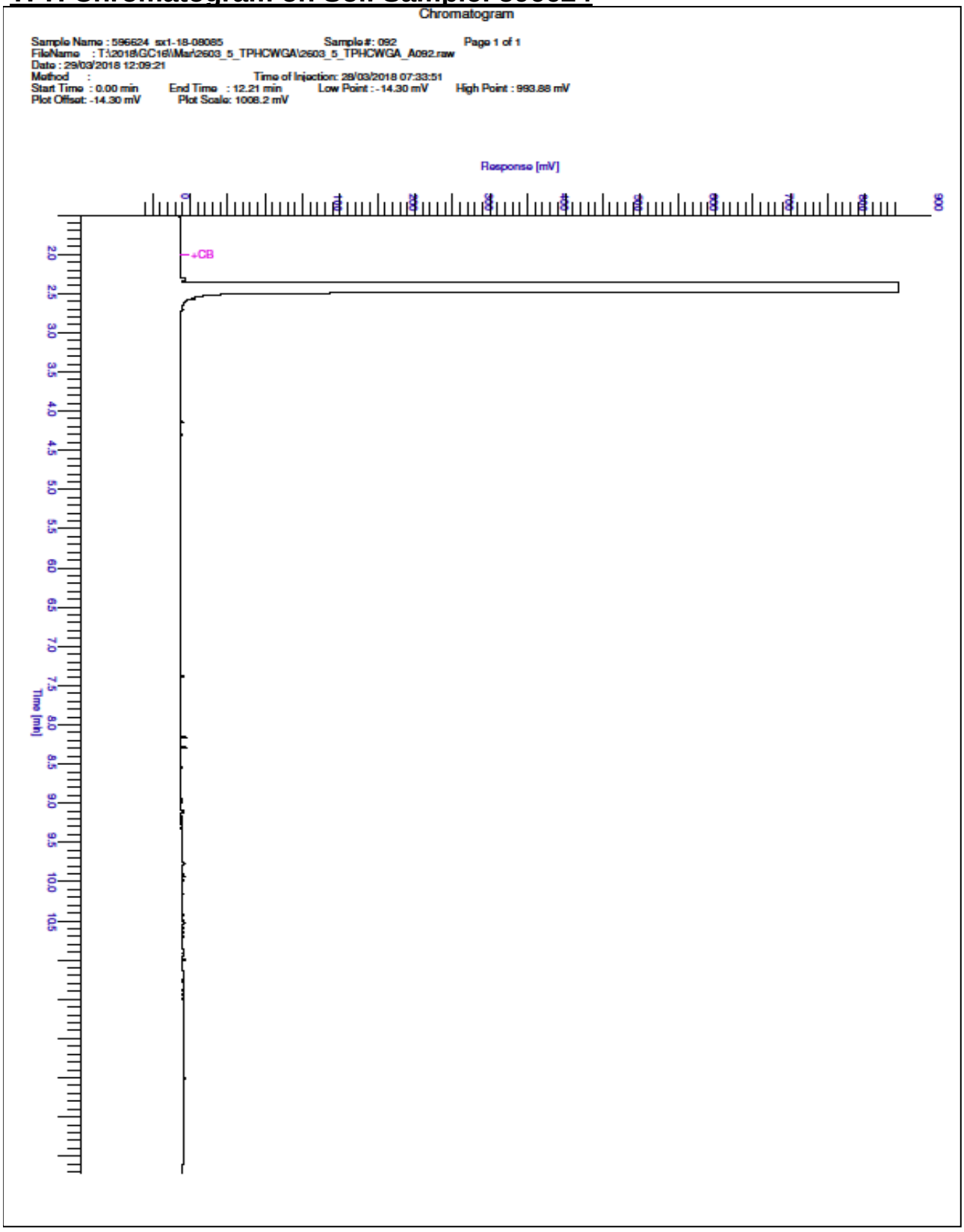
TPH Chromatogram on Soil Sample: 596622



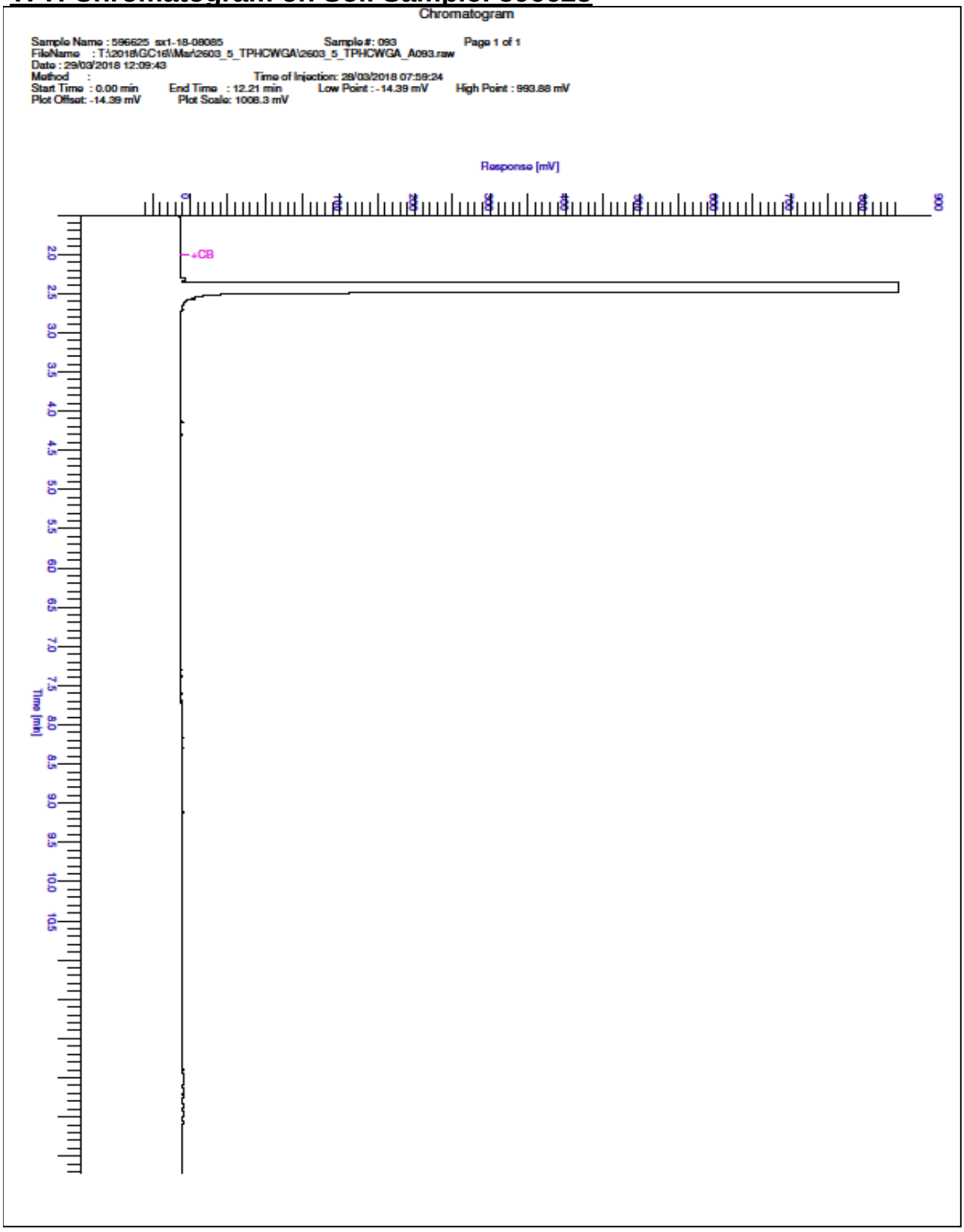
TPH Chromatogram on Soil Sample: 596623



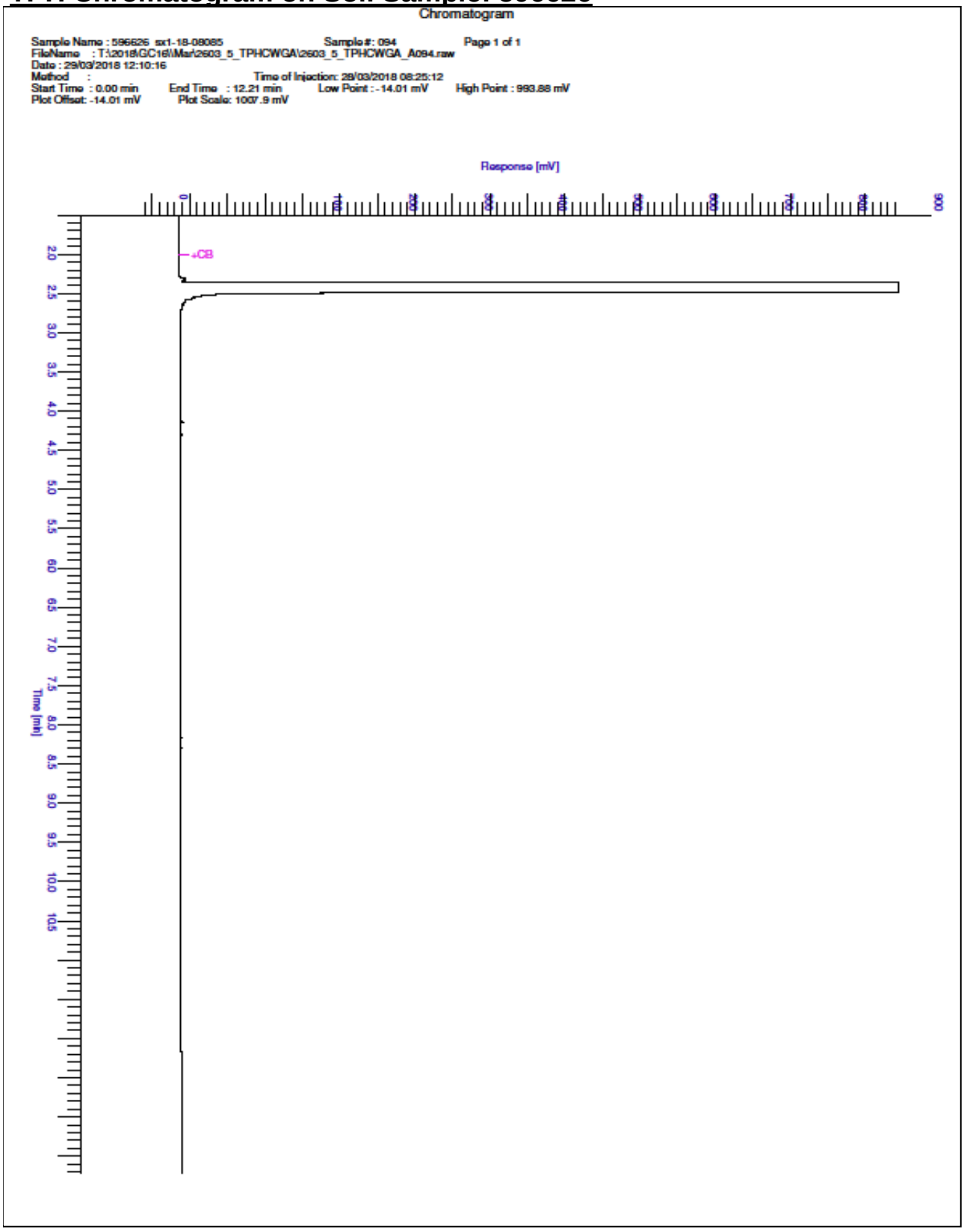
TPH Chromatogram on Soil Sample: 596624



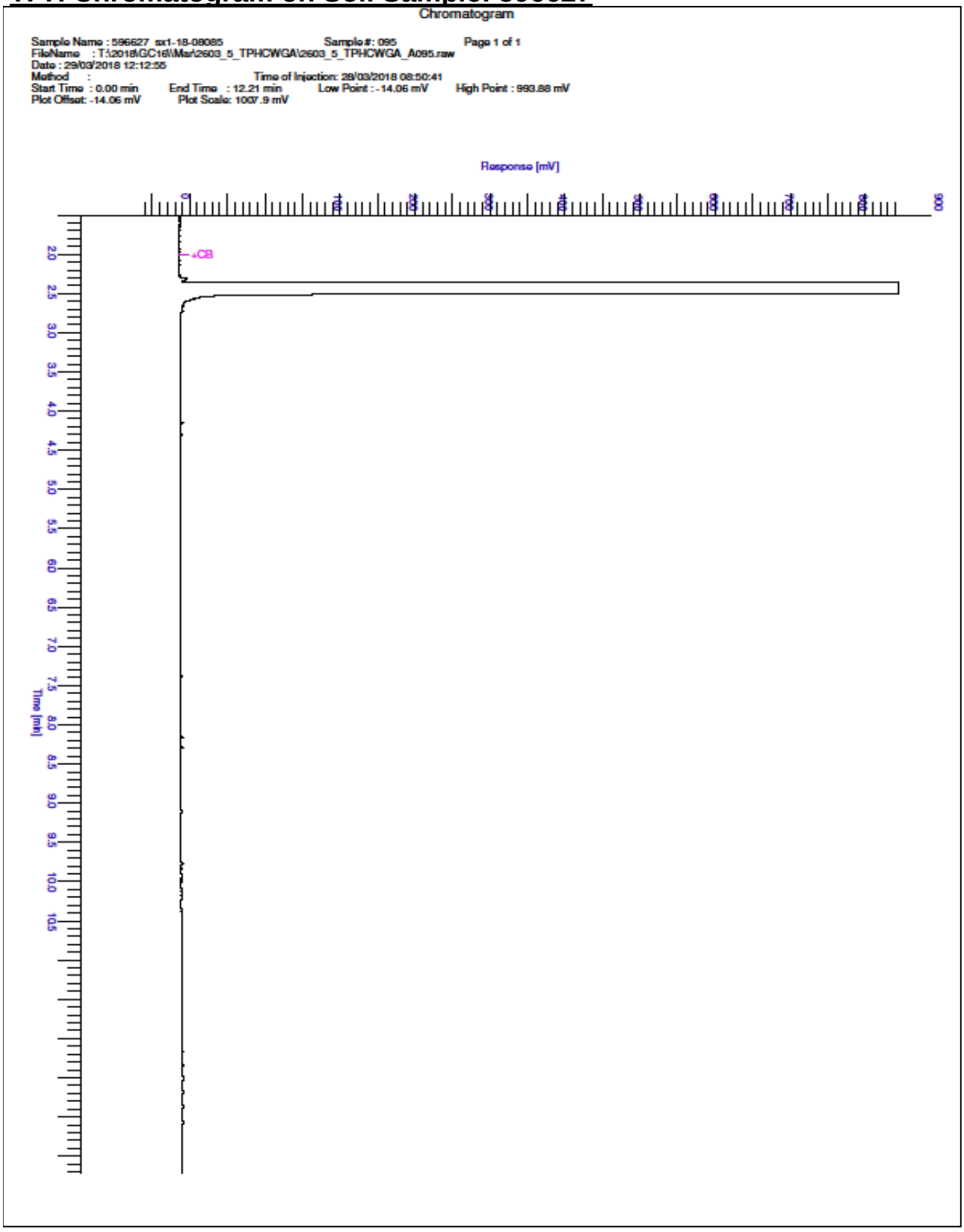
TPH Chromatogram on Soil Sample: 596625



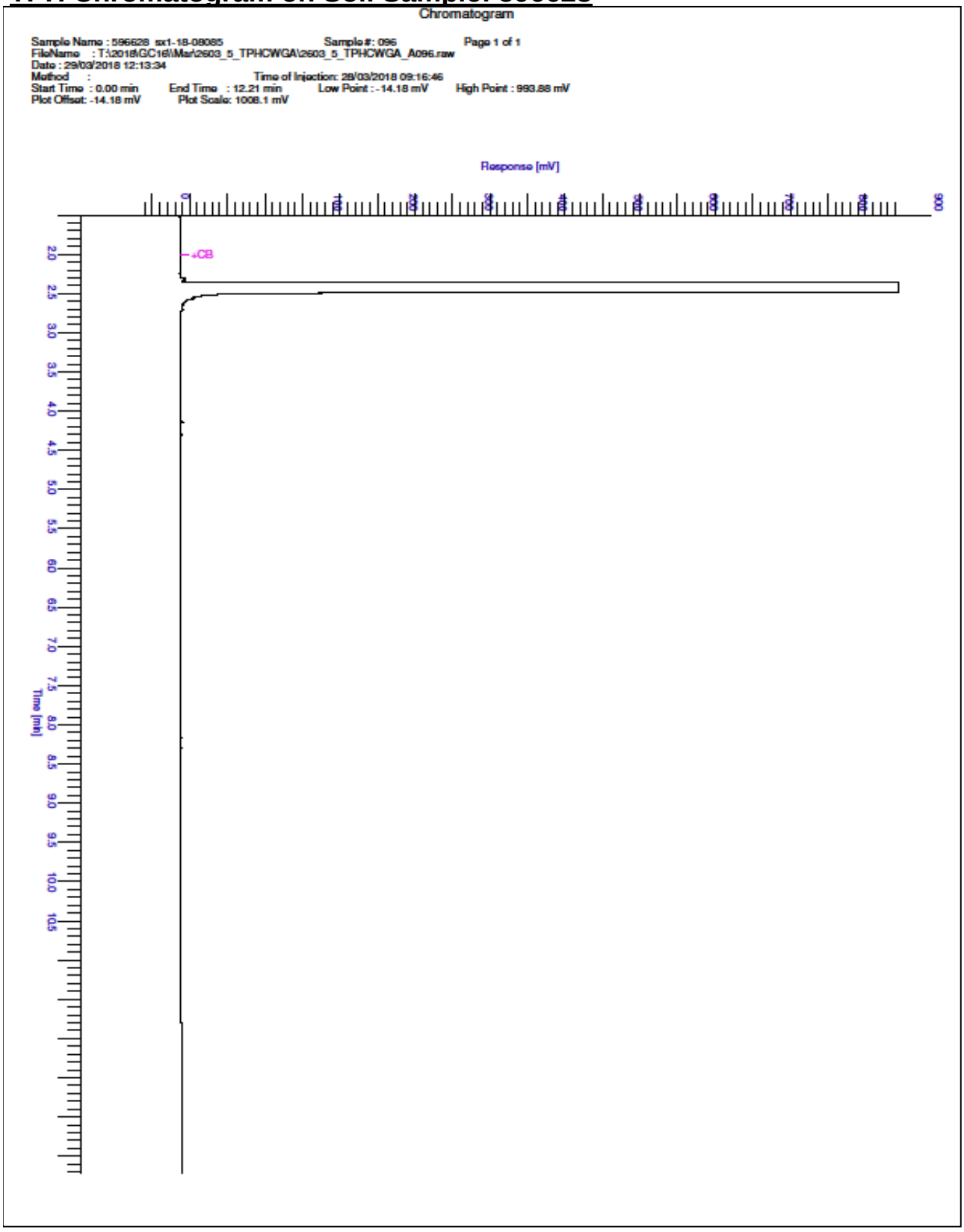
TPH Chromatogram on Soil Sample: 596626



TPH Chromatogram on Soil Sample: 596627



TPH Chromatogram on Soil Sample: 596628



Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.

Test Methods

SOP	Title	Parameters included	Method summary
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	18-08588-3		
Initial Date of Issue:	13-Apr-2018	**Date of Re-Issue:**	01-May-2019
Client	LK Consult		
Client Address:	Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester Lancashire M26 2ZS		
Contact(s):	Colin Crompton Contaminated Land		
Project	LKC 17 1257 - Blackleys		
Quotation No.:		**Date Received:**	28-Mar-2018
Order No.:	736013	**Date Instructed:**	28-Mar-2018
No. of Samples:	13		
Turnaround (Wkdays):	8	**Results Due:**	10-Apr-2018
Date Approved:	01-May-2019		
Approved By:			
Details:	Glynn Harvey, Laboratory Manager Martin Dyer, Laboratory Manager		

Chemtest
The right chemistry to deliver results

Results - Leachate

Project: LKC 17 1257 - Blackleys

Client: LK Consult				**Chemtest Job No.:**		18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:				**Chemtest Sample ID.:**		598925	598927	598929	598931	598933
				Client Sample ID.:		S119	S121	S123	S125	S127
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:		26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**					
pH	U	1010	2:1		N/A	8.3	7.9	8.2	8.4	8.2
Sulphate	U	1220	2:1	mg/l	1.0	490	420	56	170	260
Cyanide (Total)	U	1300	2:1	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	2:1	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium	U	1415	2:1	mg/l	5.0	200	180	53	88	130
Hardness	U	1415	2:1	mg/l	15	510	450	150	250	330
Arsenic (Dissolved)	U	1450	2:1	µg/l	1.0	11	8.8	11	5.7	2.0
Boron (Dissolved)	U	1450	2:1	µg/l	20	110	67	73	74	54
Cadmium (Dissolved)	U	1450	2:1	µg/l	0.080	0.17	0.090	< 0.080	< 0.080	0.080
Chromium (Dissolved)	U	1450	2:1	µg/l	1.0	29	2.9	1.0	4.5	< 1.0
Copper (Dissolved)	U	1450	2:1	µg/l	1.0	54	8.5	5.1	2.8	2.2
Nickel (Dissolved)	U	1450	2:1	µg/l	1.0	6.3	2.3	3.0	1.1	1.7
Lead (Dissolved)	U	1450	2:1	µg/l	1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	2:1	µg/l	1.0	10	3.7	2.3	1.6	1.5
Vanadium (Dissolved)	U	1450	2:1	µg/l	1.0	20	6.2	6.4	1.0	1.0
Zinc (Dissolved)	U	1450	2:1	µg/l	1.0	17	15	4.4	6.8	19
Mercury Low Level	U	1460	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Hexavalent)	U	1490	2:1	µg/l	20	< 20	< 20	< 20	< 20	< 20
Total Organic Carbon	U	1610	2:1	mg/l	2.0	19	17	23	8.7	15
Fuel Type	N	1670	2:1		N/A	PAH	N/A	PAH	PAH	N/A
C2 Aliphatic TPH >C5-C6	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C6-C8	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C8-C10	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C10-C12	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C12-C16	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C16-C21	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C21-C35	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	240	< 0.10
C2 Aliphatic TPH >C35-C44	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	2:1	µg/l	5.0	< 5.0	< 5.0	< 5.0	240	< 5.0
C2 Aromatic TPH >C5-C7	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aromatic TPH >C7-C8	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aromatic TPH >C8-C10	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Aromatic TPH >C10-C12	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	78	< 0.10	< 0.10
C2 Aromatic TPH >C12-C16	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	54	< 0.10	< 0.10
C2 Aromatic TPH >C16-C21	N	1675	2:1	µg/l	0.10	13	< 0.10	59	80	< 0.10
C2 Aromatic TPH >C21-C35	N	1675	2:1	µg/l	0.10	81	< 0.10	92	690	< 0.10
C2 Aromatic TPH >C35-C44	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
C2 Total Aromatic Hydrocarbons	N	1675	2:1	µg/l	5.0	94	< 5.0	280	770	< 5.0
Total Petroleum Hydrocarbons	N	1675	2:1	µg/l	10	94	< 10	280	1000	< 10
Benzene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemtest
The right chemistry to deliver results

Results - Leachate

Project: LKC 17 1257 - Blackleys

Client: LK Consult				**Chemtest Job No.:**		18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:				**Chemtest Sample ID.:**		598925	598927	598929	598931	598933
				Client Sample ID.:		S119	S121	S123	S125	S127
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Date Sampled:		26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**					
Ethylbenzene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	N	1760	2:1	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthylene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	10	< 0.010
Anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	1.2	< 0.010
Fluoranthene	N	1800	2:1	µg/l	0.010	1.1	< 0.010	8.4	13	< 0.010
Pyrene	N	1800	2:1	µg/l	0.010	1.8	< 0.010	12	15	< 0.010
Benzo[a]anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	2.6	< 0.010
Chrysene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	2.6	< 0.010
Benzo[b]fluoranthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Phenols	U	1920	2:1	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Chemtest
The right chemistry to deliver results

Results - Soil

Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598925	598926	598927	598928	598929	598930	598931	598932
		Client Sample ID.:			S119	S120	S121	S122	S123	S124	S125	S126
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	13	14	13	14	12	13	12	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay	Clay	Clay	Clay	Sand
Chromatogram (TPH)	N			N/A	See Attached		See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	8.3	8.5	9.2	8.5	8.6	8.5	8.4	8.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.1	0.81	0.63	0.58	0.79	0.56	1.1	0.93
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.53	0.15	0.32	0.20	0.097	0.12	0.55	0.68
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	28	13	25	18	18	12	46	34
Cadmium	M	2450	mg/kg	0.10	0.24	0.16	0.28	0.21	0.37	0.14	0.26	0.24
Chromium	M	2450	mg/kg	1.0	30	20	40	29	22	20	24	22
Copper	M	2450	mg/kg	0.50	120	32	92	35	40	29	70	79
Mercury	M	2450	mg/kg	0.10	0.47	0.15	0.25	0.12	0.28	0.20	0.55	6.4
Nickel	M	2450	mg/kg	0.50	32	18	28	33	22	22	27	29
Lead	M	2450	mg/kg	0.50	160	71	120	49	78	55	190	120
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	30	27	26	28	23	22	29	28
Zinc	M	2450	mg/kg	0.50	150	90	91	65	78	76	150	120
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	10	3.5	5.2	2.2	2.4	1.7	6.7	9.1
Fuel Type	N	2670		N/A	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.7	7.2
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	40	19	16	< 1.0	15	18	16	29
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	43	19	16	< 5.0	15	18	19	36
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.7	9.9
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	6.5	< 1.0	1.8	< 1.0	< 1.0	< 1.0	53	61

Chemtest
The right chemistry to deliver results

Results - Soil

Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598925	598926	598927	598928	598929	598930	598931	598932
		Client Sample ID.:			S119	S120	S121	S122	S123	S124	S125	S126
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	56	4.5	23	5.3	13	1.7	200	200
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	240	84	100	20	85	49	470	550
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	25	27
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	300	88	130	26	98	51	750	850
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	340	110	140	26	110	69	770	890
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0						
Chloromethane	M	2760	µg/kg	1.0		< 1.0						
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0						
Bromomethane	M	2760	µg/kg	20		< 20						
Chloroethane	U	2760	µg/kg	2.0		< 2.0						
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0						
1,1-Dichloroethene	M	2760	µg/kg	1.0		< 1.0						
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0						
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0						
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0						
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0						
Trichloromethane	M	2760	µg/kg	1.0		< 1.0						
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0						
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0						
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0						
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0						
Trichloroethene	N	2760	µg/kg	1.0		< 1.0						
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0						
Dibromomethane	M	2760	µg/kg	1.0		< 1.0						
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0						
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10						
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10						
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10						
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0						
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0						
Dibromochloromethane	U	2760	µg/kg	10		< 10						
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0						
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0						
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0						
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4
Styrene	M	2760	µg/kg	1.0		< 1.0						

Results - Soil

Project: LKC 17 1257 - Blackleys

Client: LK Consult		Chemtest Job No.:			18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		Chemtest Sample ID.:			598925	598926	598927	598928	598929	598930	598931	598932
		Client Sample ID.:			S119	S120	S121	S122	S123	S124	S125	S126
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Tribromomethane	U	2760	µg/kg	1.0		< 1.0						
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0						
Bromobenzene	M	2760	µg/kg	1.0		< 1.0						
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50						
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0						
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0						
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0						
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0						
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0						
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0						
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0						
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0						
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0						
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0						
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0						
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0						
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50						
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0						
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0						
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0						
Carbon Disulphide	N	2760	µg/kg	50		< 50						
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		< 0.50						
Phenol	M	2790	mg/kg	0.50		< 0.50						
2-Chlorophenol	M	2790	mg/kg	0.50		< 0.50						
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		< 0.50						
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50						
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		< 0.50						
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50						
2-Methylphenol	M	2790	mg/kg	0.50		< 0.50						
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		< 0.50						
Hexachloroethane	N	2790	mg/kg	0.50		< 0.50						
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		< 0.50						
4-Methylphenol	M	2790	mg/kg	0.50		< 0.50						
Nitrobenzene	M	2790	mg/kg	0.50		< 0.50						
Isophorone	M	2790	mg/kg	0.50		< 0.50						
2-Nitrophenol	N	2790	mg/kg	0.50		< 0.50						
2,4-Dimethylphenol	N	2790	mg/kg	0.50		< 0.50						
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		< 0.50						
2,4-Dichlorophenol	M	2790	mg/kg	0.50		< 0.50						

Chemtest
The right chemistry to deliver results

Results - Soil

Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598925	598926	598927	598928	598929	598930	598931	598932
		Client Sample ID.:			S119	S120	S121	S122	S123	S124	S125	S126
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		< 0.50						
Naphthalene	M	2790	mg/kg	0.50		< 0.50						
4-Chloroaniline	N	2790	mg/kg	0.50		< 0.50						
Hexachlorobutadiene	M	2790	mg/kg	0.50		< 0.50						
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		< 0.50						
2-Methylnaphthalene	M	2790	mg/kg	0.50		< 0.50						
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		< 0.50						
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50						
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50						
2-Chloronaphthalene	M	2790	mg/kg	0.50		< 0.50						
2-Nitroaniline	M	2790	mg/kg	0.50		< 0.50						
Acenaphthylene	M	2790	mg/kg	0.50		< 0.50						
Dimethylphthalate	M	2790	mg/kg	0.50		< 0.50						
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50						
Acenaphthene	M	2790	mg/kg	0.50		< 0.50						
Dibenzofuran	M	2790	mg/kg	0.50		< 0.50						
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		< 0.50						
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50						
Fluorene	M	2790	mg/kg	0.50		< 0.50						
Diethyl Phthalate	M	2790	mg/kg	0.50		< 0.50						
4-Nitroaniline	M	2790	mg/kg	0.50		< 0.50						
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		< 0.50						
Azobenzene	M	2790	mg/kg	0.50		< 0.50						
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		< 0.50						
Hexachlorobenzene	M	2790	mg/kg	0.50		< 0.50						
Pentachlorophenol	N	2790	mg/kg	0.50		< 0.50						
Phenanthrene	M	2790	mg/kg	0.50		3.5						
Anthracene	M	2790	mg/kg	0.50		0.92						
Carbazole	M	2790	mg/kg	0.50		< 0.50						
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		< 0.50						
Fluoranthene	M	2790	mg/kg	0.50		4.3						
Pyrene	M	2790	mg/kg	0.50		4.2						
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		< 0.50						
Benzo[a]anthracene	M	2790	mg/kg	0.50		2.2						
Chrysene	M	2790	mg/kg	0.50		2.1						
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		< 0.50						
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		< 0.50						
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		2.7						
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		1.0						
Benzo[a]pyrene	M	2790	mg/kg	0.50		2.0						

Chemtest
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Results - Soil

Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598925	598926	598927	598928	598929	598930	598931	598932
		Client Sample ID.:			S119	S120	S121	S122	S123	S124	S125	S126
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		0.91						
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		< 0.50						
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		1.2						
Naphthalene	M	2800	mg/kg	0.10	1.5		0.78	1.9	0.75	0.21	7.4	16
Acenaphthylene	N	2800	mg/kg	0.10	0.15		< 0.10	0.26	< 0.10	< 0.10	0.94	2.5
Acenaphthene	M	2800	mg/kg	0.10	4.4		1.7	0.91	0.58	0.18	7.6	18
Fluorene	M	2800	mg/kg	0.10	2.8		1.6	1.1	0.43	0.16	5.8	17
Phenanthrene	M	2800	mg/kg	0.10	17		13	7.3	4.4	2.1	45	120
Anthracene	M	2800	mg/kg	0.10	4.5		2.8	2.6	0.86	0.41	9.5	27
Fluoranthene	M	2800	mg/kg	0.10	20		16	6.4	5.7	3.0	48	120
Pyrene	M	2800	mg/kg	0.10	17		14	6.1	5.5	2.9	49	130
Benzo[a]anthracene	M	2800	mg/kg	0.10	8.1		5.6	2.3	2.2	1.2	20	49
Chrysene	M	2800	mg/kg	0.10	8.9		6.5	2.8	2.7	1.4	23	57
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	9.1		6.8	2.5	2.9	1.6	23	51
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	3.2		2.6	0.83	1.1	0.43	8.2	19
Benzo[a]pyrene	M	2800	mg/kg	0.10	7.8		5.5	2.0	2.1	1.1	20	45
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	5.5		3.4	1.2	1.3	0.72	10	23
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.85		0.64	0.21	0.17	< 0.10	2.4	5.1
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	4.8		3.3	1.3	1.6	0.83	10	23
Total Of 16 PAH's	N	2800	mg/kg	2.0	120		84	40	32	16	290	720
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

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Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598933	598934	598935	598936	598937
		Client Sample ID.:			S127	S128	S129	S130	S131
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	14	11	14	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Sand
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		N/A	8.5	8.8	9.2	8.6	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.74	0.57	0.54	0.65	1.4
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.60	0.26	0.39	0.59	1.5
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	20	21	22	20	18
Cadmium	M	2450	mg/kg	0.10	0.33	0.16	0.19	0.31	0.28
Chromium	M	2450	mg/kg	1.0	24	27	27	26	23
Copper	M	2450	mg/kg	0.50	40	54	40	43	46
Mercury	M	2450	mg/kg	0.10	0.59	0.28	0.19	0.25	0.28
Nickel	M	2450	mg/kg	0.50	25	31	36	27	23
Lead	M	2450	mg/kg	0.50	96	84	68	86	100
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	25	28	26	26	27
Zinc	M	2450	mg/kg	0.50	99	82	84	87	140
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.6	5.2	2.9	4.0	4.1
Fuel Type	N	2670		N/A	PAH	PAH	PAH	PAH	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	17	17	55	15	28
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	17	17	55	15	28
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598933	598934	598935	598936	598937
		Client Sample ID.:			S127	S128	S129	S130	S131
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	11	< 1.0	< 1.0	1.8
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	69	100	120	54	110
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	69	110	120	54	110
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	86	130	170	68	140
Dichlorodifluoromethane	U	2760	µg/kg	1.0					
Chloromethane	M	2760	µg/kg	1.0					
Vinyl Chloride	M	2760	µg/kg	1.0					
Bromomethane	M	2760	µg/kg	20					
Chloroethane	U	2760	µg/kg	2.0					
Trichlorofluoromethane	M	2760	µg/kg	1.0					
1,1-Dichloroethene	M	2760	µg/kg	1.0					
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0					
1,1-Dichloroethane	M	2760	µg/kg	1.0					
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0					
Bromochloromethane	U	2760	µg/kg	5.0					
Trichloromethane	M	2760	µg/kg	1.0					
1,1,1-Trichloroethane	M	2760	µg/kg	1.0					
Tetrachloromethane	M	2760	µg/kg	1.0					
1,1-Dichloropropene	U	2760	µg/kg	1.0					
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0					
Trichloroethene	N	2760	µg/kg	1.0					
1,2-Dichloropropane	M	2760	µg/kg	1.0					
Dibromomethane	M	2760	µg/kg	1.0					
Bromodichloromethane	M	2760	µg/kg	5.0					
cis-1,3-Dichloropropene	N	2760	µg/kg	10					
Toluene	M	2760	µg/kg	1.0	8.5	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10					
1,1,2-Trichloroethane	M	2760	µg/kg	10					
Tetrachloroethene	M	2760	µg/kg	1.0					
1,3-Dichloropropane	U	2760	µg/kg	2.0					
Dibromochloromethane	U	2760	µg/kg	10					
1,2-Dibromoethane	M	2760	µg/kg	5.0					
Chlorobenzene	M	2760	µg/kg	1.0					
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0					
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0					

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Project: LKC 17 1257 - Blackleys

Client: LK Consult		**Chemtest Job No.:**			18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:		**Chemtest Sample ID.:**			598933	598934	598935	598936	598937
		Client Sample ID.:			S127	S128	S129	S130	S131
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Tribromomethane	U	2760	µg/kg	1.0					
Isopropylbenzene	M	2760	µg/kg	1.0					
Bromobenzene	M	2760	µg/kg	1.0					
1,2,3-Trichloropropane	N	2760	µg/kg	50					
N-Propylbenzene	U	2760	µg/kg	1.0					
2-Chlorotoluene	M	2760	µg/kg	1.0					
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0					
4-Chlorotoluene	U	2760	µg/kg	1.0					
Tert-Butylbenzene	U	2760	µg/kg	1.0					
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0					
Sec-Butylbenzene	U	2760	µg/kg	1.0					
1,3-Dichlorobenzene	M	2760	µg/kg	1.0					
4-Isopropyltoluene	U	2760	µg/kg	1.0					
1,4-Dichlorobenzene	M	2760	µg/kg	1.0					
N-Butylbenzene	U	2760	µg/kg	1.0					
1,2-Dichlorobenzene	M	2760	µg/kg	1.0					
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50					
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0					
Hexachlorobutadiene	U	2760	µg/kg	1.0					
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0					
Carbon Disulphide	N	2760	µg/kg	50					
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50					
Phenol	M	2790	mg/kg	0.50					
2-Chlorophenol	M	2790	mg/kg	0.50					
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50					
1,3-Dichlorobenzene	M	2790	mg/kg	0.50					
1,4-Dichlorobenzene	N	2790	mg/kg	0.50					
1,2-Dichlorobenzene	M	2790	mg/kg	0.50					
2-Methylphenol	M	2790	mg/kg	0.50					
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50					
Hexachloroethane	N	2790	mg/kg	0.50					
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50					
4-Methylphenol	M	2790	mg/kg	0.50					
Nitrobenzene	M	2790	mg/kg	0.50					
Isophorone	M	2790	mg/kg	0.50					
2-Nitrophenol	N	2790	mg/kg	0.50					
2,4-Dimethylphenol	N	2790	mg/kg	0.50					
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50					
2,4-Dichlorophenol	M	2790	mg/kg	0.50					

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Results - Soil

Project: LKC 17 1257 - Blackleys

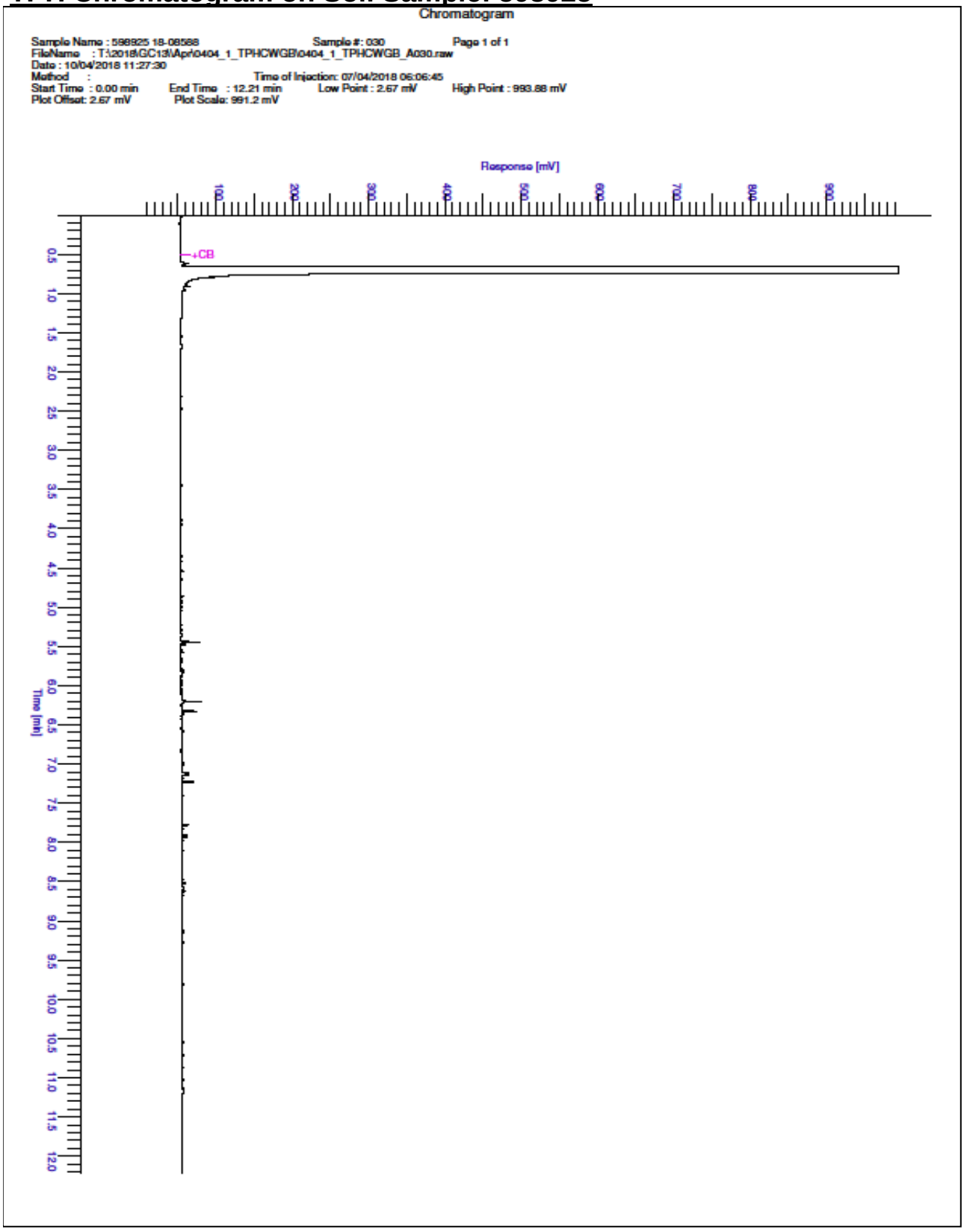
Client: LK Consult			**Chemtest Job No.:**		18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:			**Chemtest Sample ID.:**		598933	598934	598935	598936	598937
			Client Sample ID.:		S127	S128	S129	S130	S131
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Date Sampled:		26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50					
Naphthalene	M	2790	mg/kg	0.50					
4-Chloroaniline	N	2790	mg/kg	0.50					
Hexachlorobutadiene	M	2790	mg/kg	0.50					
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50					
2-Methylnaphthalene	M	2790	mg/kg	0.50					
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50					
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50					
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50					
2-Chloronaphthalene	M	2790	mg/kg	0.50					
2-Nitroaniline	M	2790	mg/kg	0.50					
Acenaphthylene	M	2790	mg/kg	0.50					
Dimethylphthalate	M	2790	mg/kg	0.50					
2,6-Dinitrotoluene	M	2790	mg/kg	0.50					
Acenaphthene	M	2790	mg/kg	0.50					
Dibenzofuran	M	2790	mg/kg	0.50					
4-Chlorophenylphenylether	M	2790	mg/kg	0.50					
2,4-Dinitrotoluene	M	2790	mg/kg	0.50					
Fluorene	M	2790	mg/kg	0.50					
Diethyl Phthalate	M	2790	mg/kg	0.50					
4-Nitroaniline	M	2790	mg/kg	0.50					
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50					
Azobenzene	M	2790	mg/kg	0.50					
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50					
Hexachlorobenzene	M	2790	mg/kg	0.50					
Pentachlorophenol	N	2790	mg/kg	0.50					
Phenanthrene	M	2790	mg/kg	0.50					
Anthracene	M	2790	mg/kg	0.50					
Carbazole	M	2790	mg/kg	0.50					
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50					
Fluoranthene	M	2790	mg/kg	0.50					
Pyrene	M	2790	mg/kg	0.50					
Butylbenzyl Phthalate	M	2790	mg/kg	0.50					
Benzo[a]anthracene	M	2790	mg/kg	0.50					
Chrysene	M	2790	mg/kg	0.50					
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50					
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50					
Benzo[b]fluoranthene	M	2790	mg/kg	0.50					
Benzo[k]fluoranthene	M	2790	mg/kg	0.50					
Benzo[a]pyrene	M	2790	mg/kg	0.50					

Results - Soil

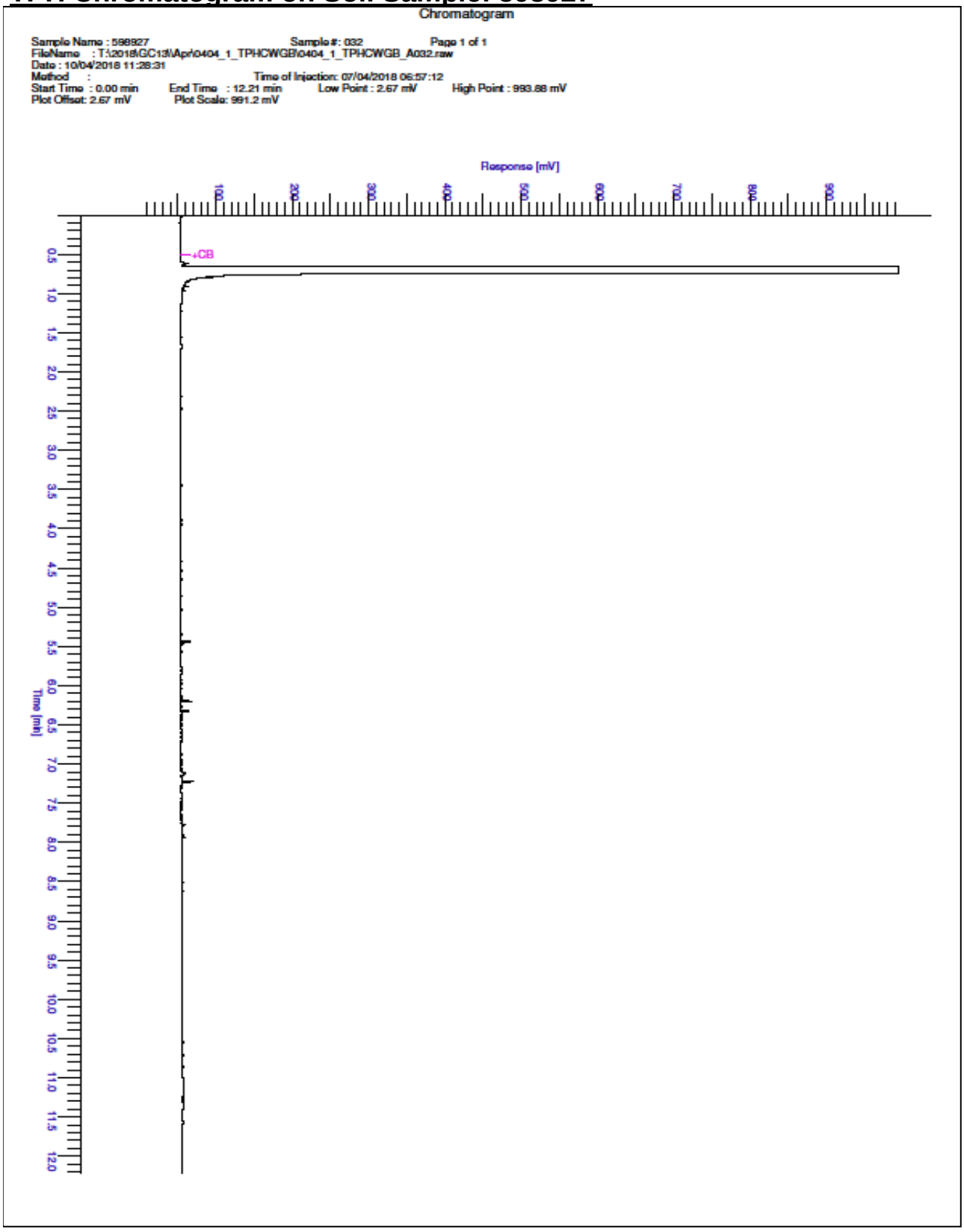
Project: LKC 17 1257 - Blackleys

Client: LK Consult			Chemtest Job No.:		18-08588	18-08588	18-08588	18-08588	18-08588
Quotation No.:			Chemtest Sample ID.:		598933	598934	598935	598936	598937
			Client Sample ID.:		S127	S128	S129	S130	S131
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Date Sampled:		26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018	26-Mar-2018
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50					
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50					
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50					
Naphthalene	M	2800	mg/kg	0.10	0.29	1.0	0.26	0.63	0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.29	2.4	0.55	0.83	0.12
Fluorene	M	2800	mg/kg	0.10	0.18	1.4	0.25	0.66	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	3.8	15	3.7	6.6	2.8
Anthracene	M	2800	mg/kg	0.10	0.78	3.6	0.78	1.6	0.60
Fluoranthene	M	2800	mg/kg	0.10	5.8	19	5.2	8.6	3.9
Pyrene	M	2800	mg/kg	0.10	5.3	17	4.7	8.0	3.6
Benzo[a]anthracene	M	2800	mg/kg	0.10	2.2	7.2	2.2	3.6	1.5
Chrysene	M	2800	mg/kg	0.10	2.5	8.1	2.4	4.0	1.6
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	2.8	8.4	2.7	4.3	1.9
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.75	3.1	0.84	1.5	0.61
Benzo[a]pyrene	M	2800	mg/kg	0.10	2.1	6.7	2.1	3.2	1.4
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	1.3	4.1	1.4	2.2	0.92
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.19	0.82	0.22	0.36	0.13
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	1.4	4.1	1.4	2.2	1.1
Total Of 16 PAH's	N	2800	mg/kg	2.0	30	100	29	48	20
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

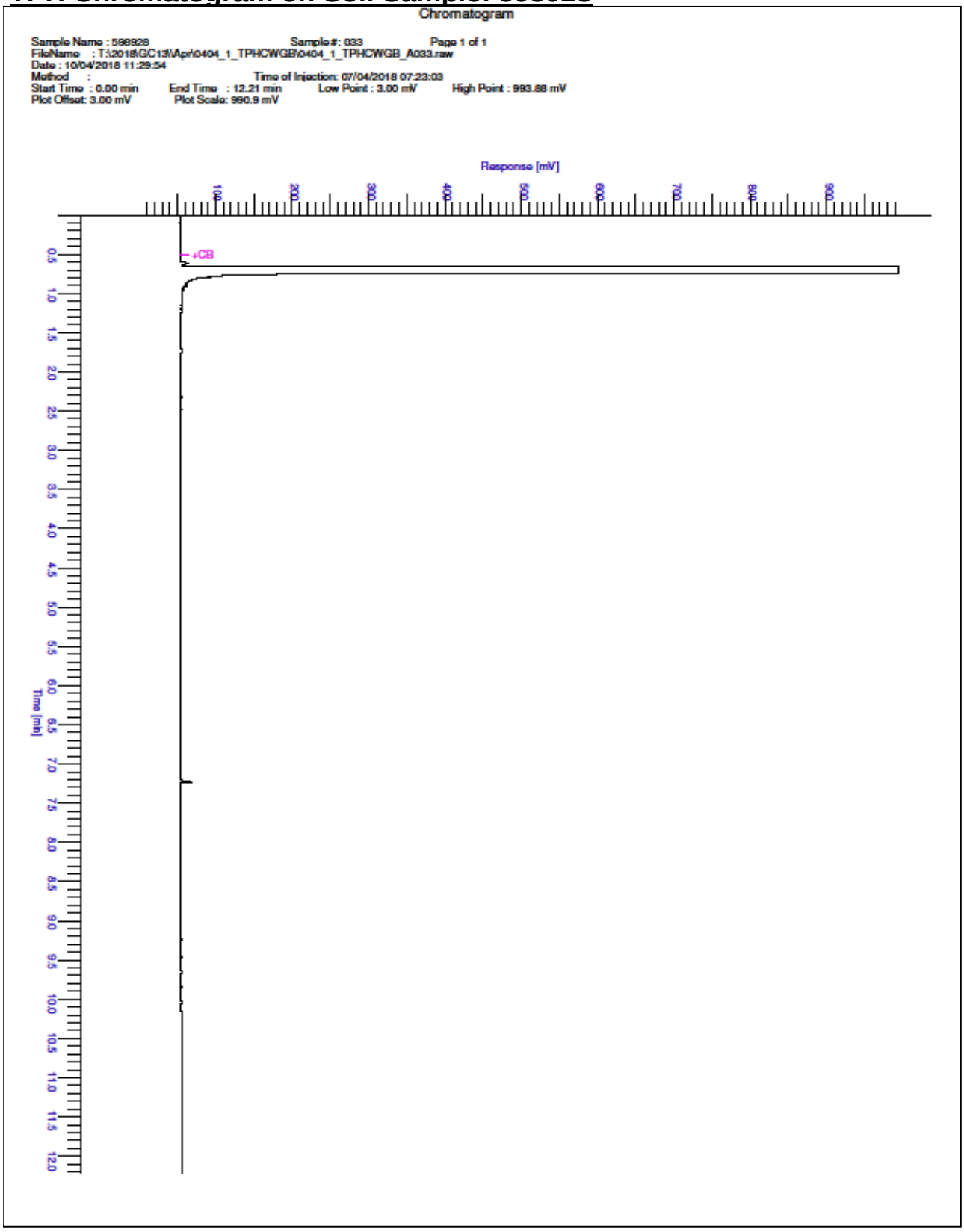
TPH Chromatogram on Soil Sample: 598925



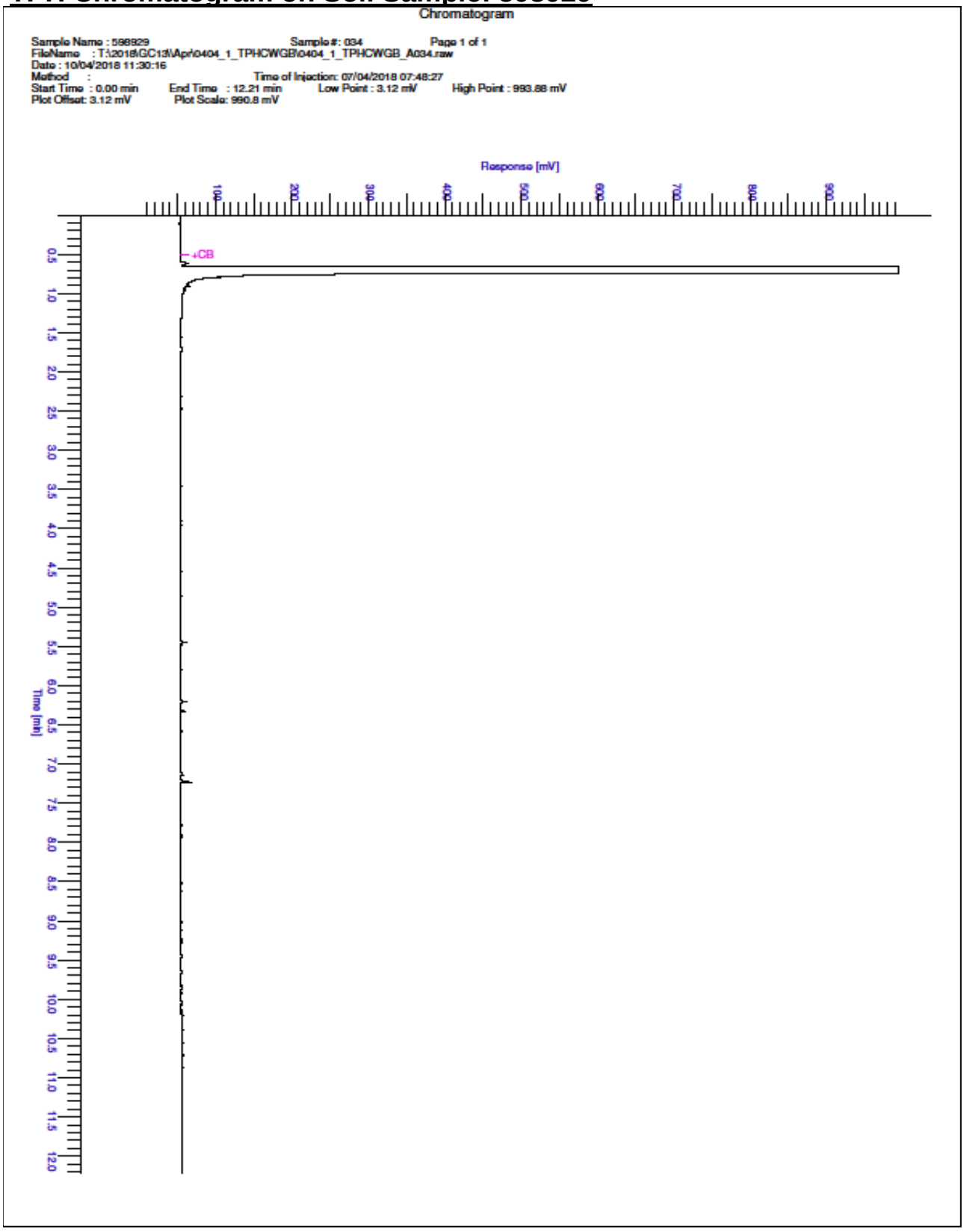
TPH Chromatogram on Soil Sample: 598927



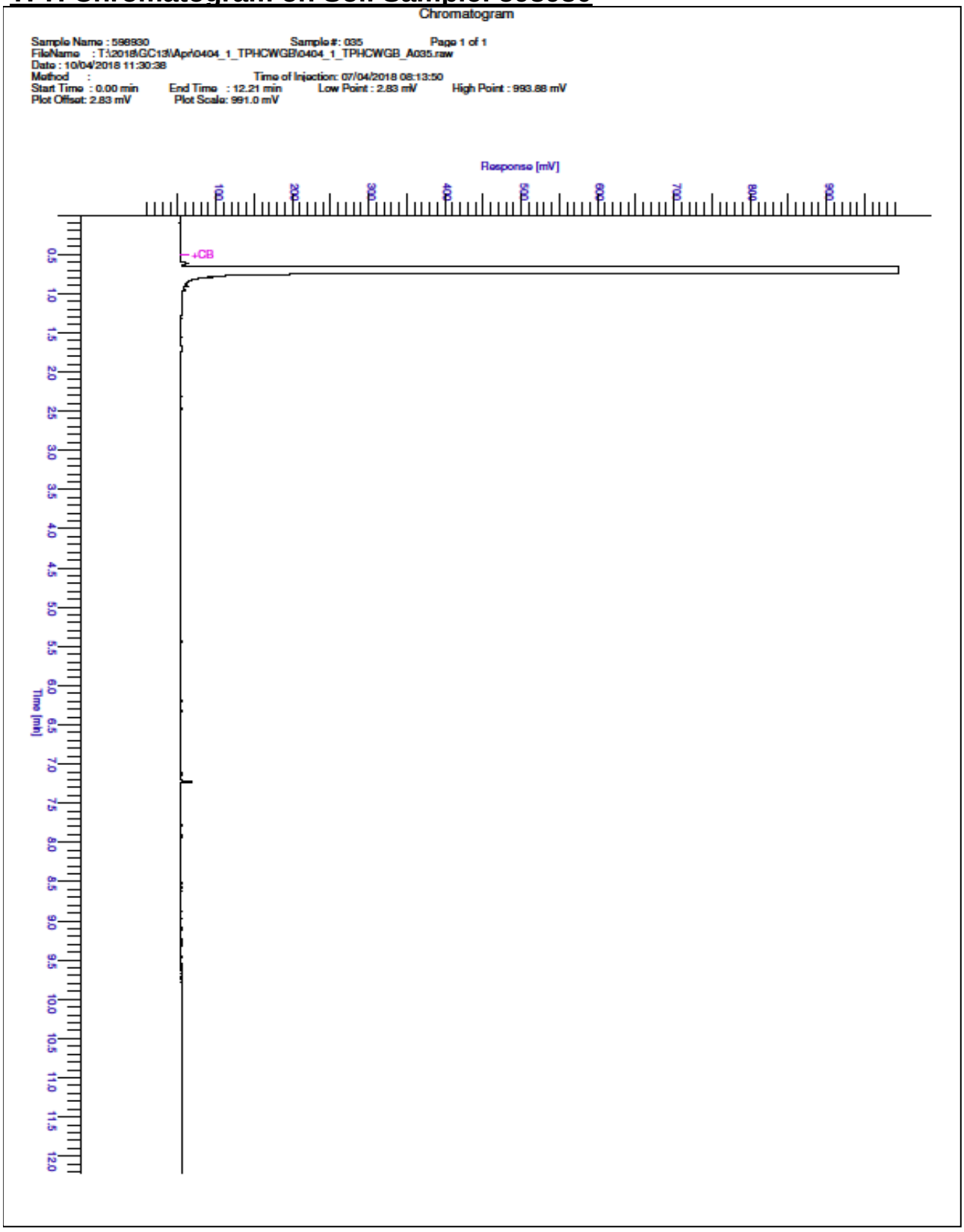
TPH Chromatogram on Soil Sample: 598928



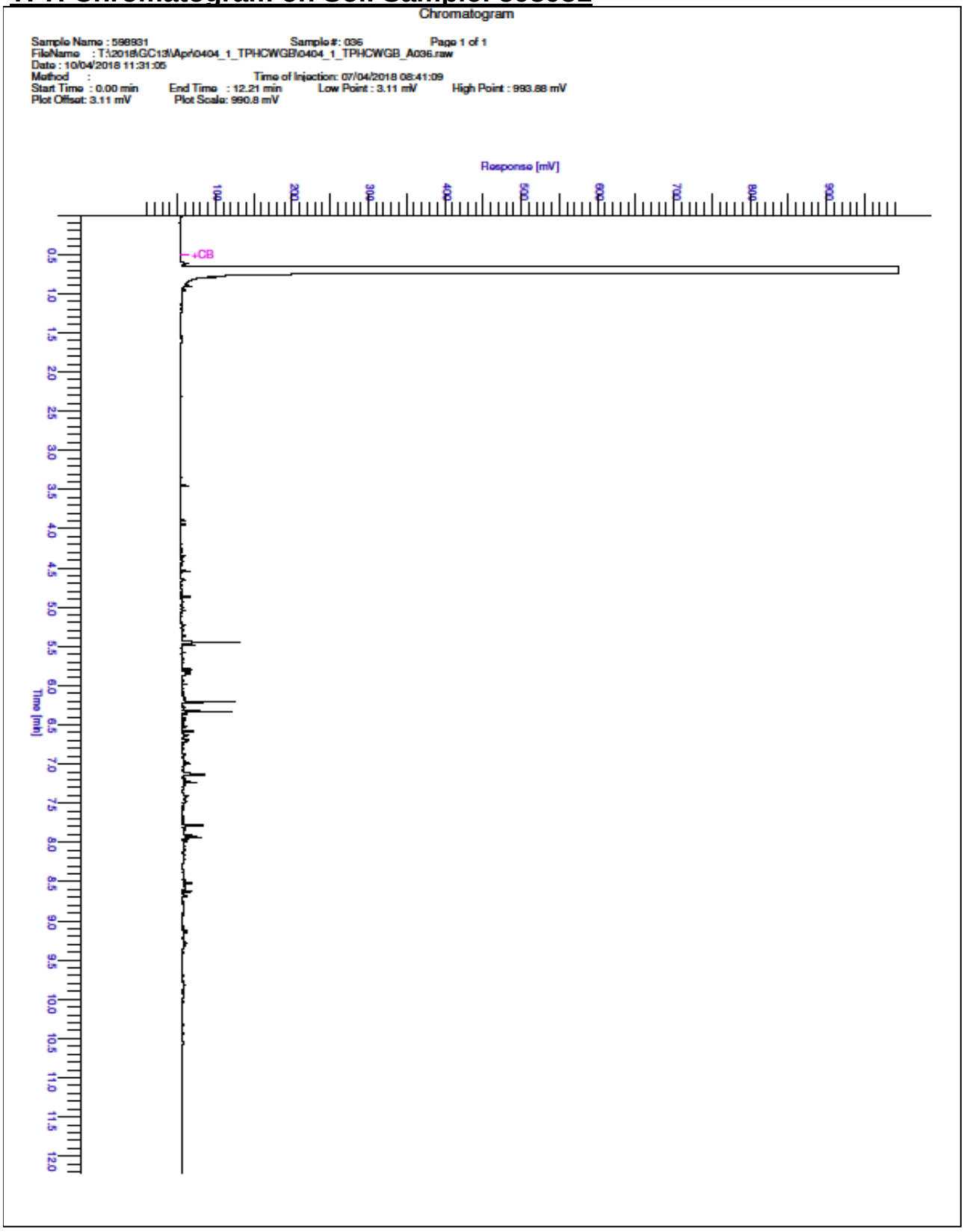
TPH Chromatogram on Soil Sample: 598929



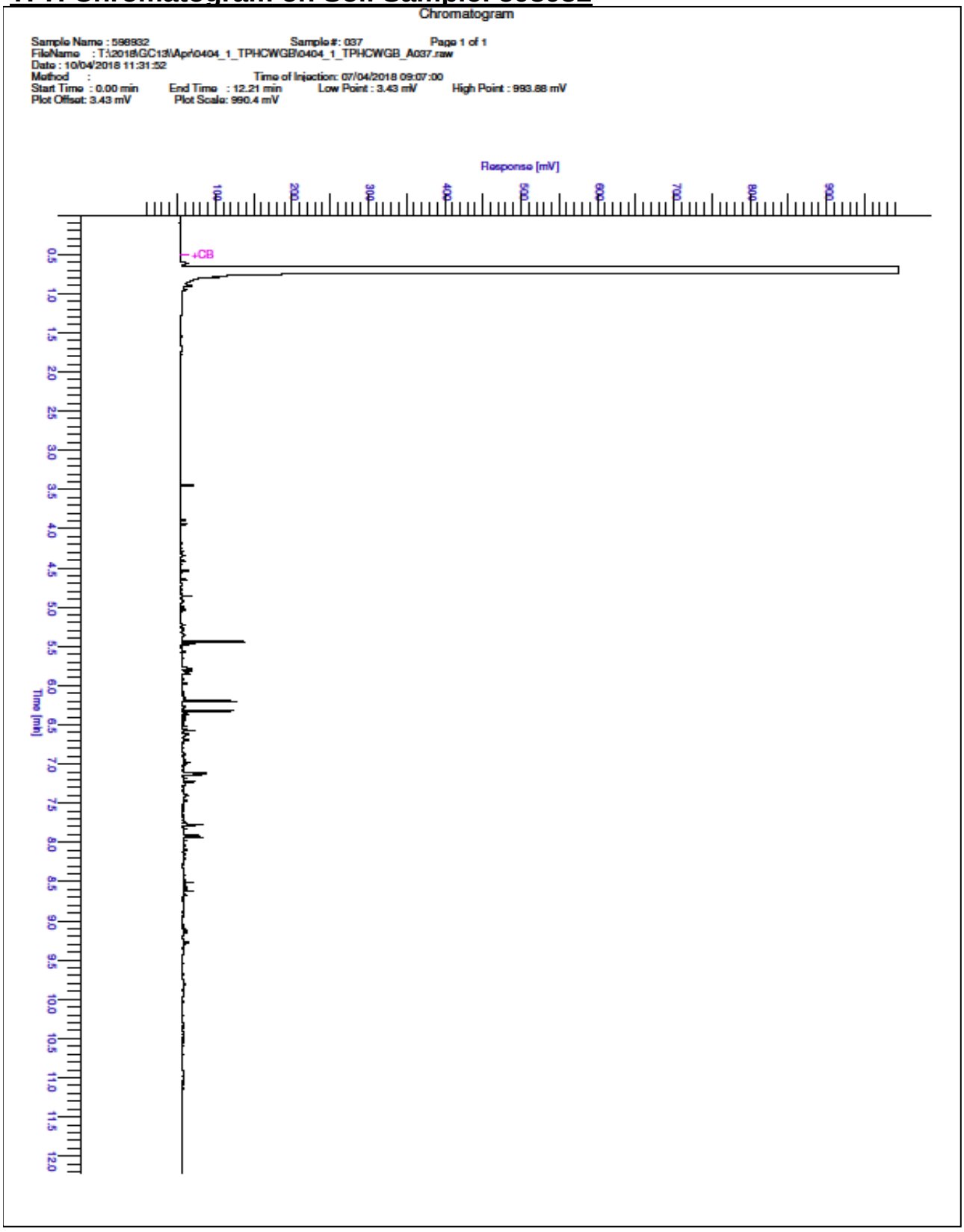
TPH Chromatogram on Soil Sample: 598930



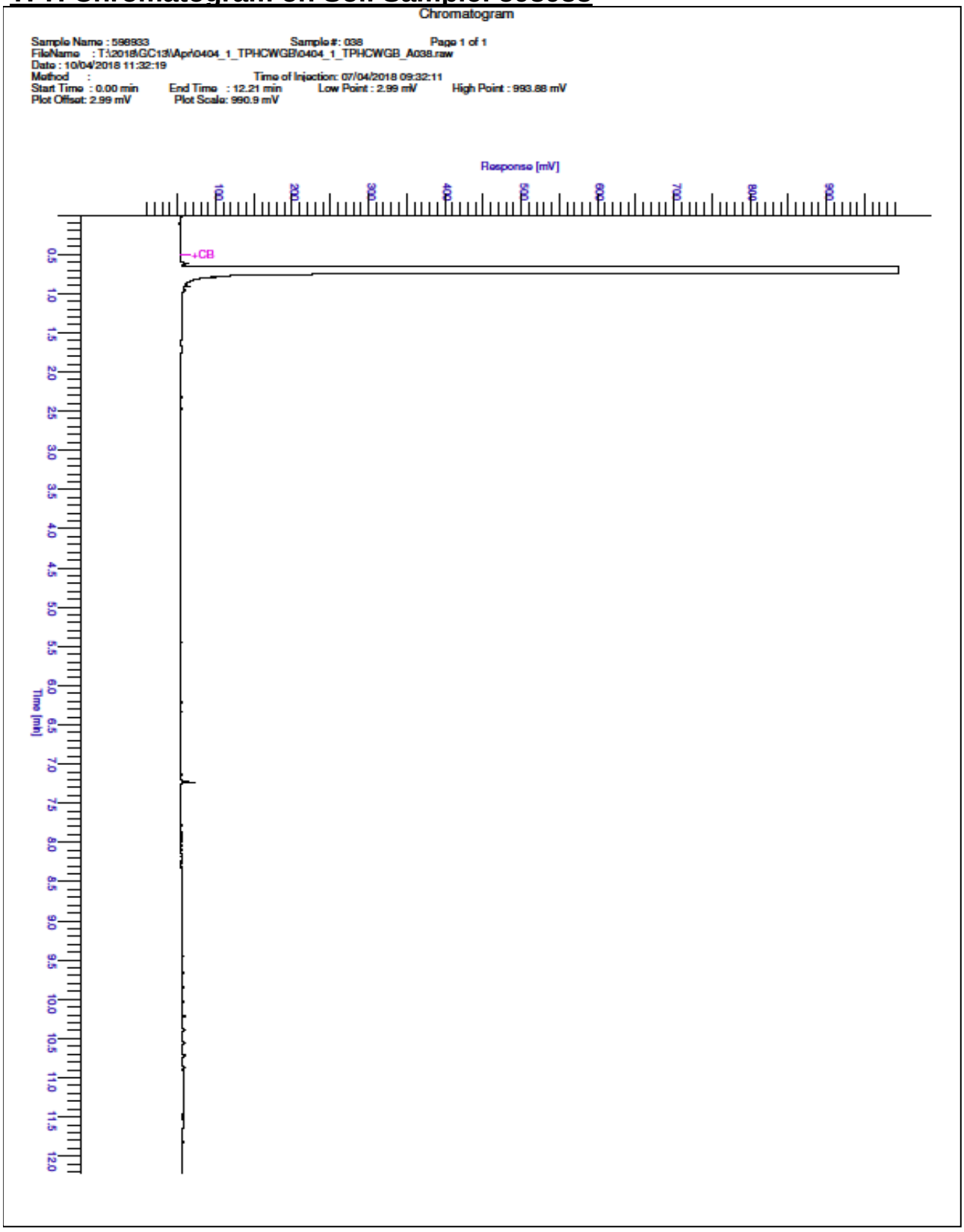
TPH Chromatogram on Soil Sample: 598931



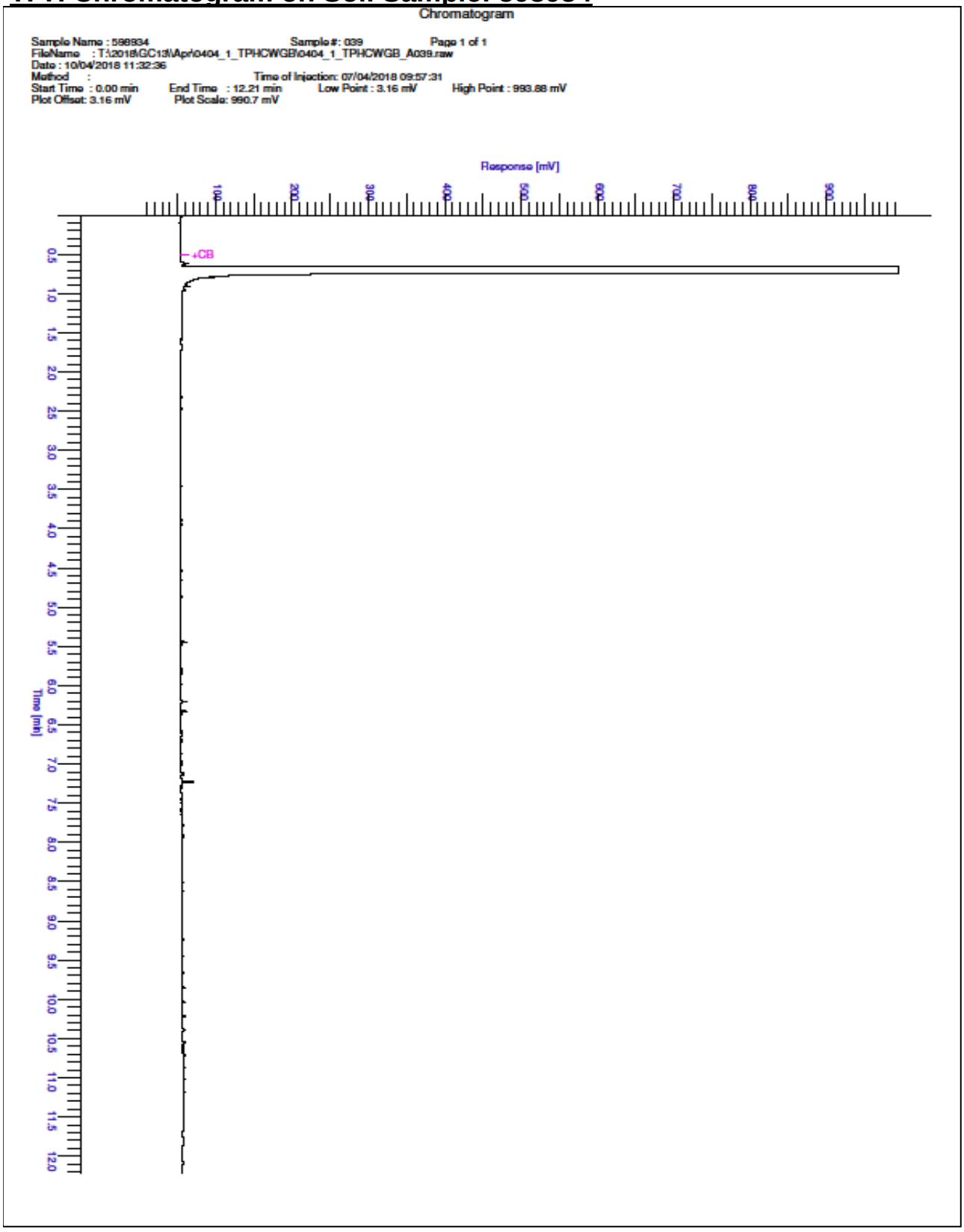
TPH Chromatogram on Soil Sample: 598932



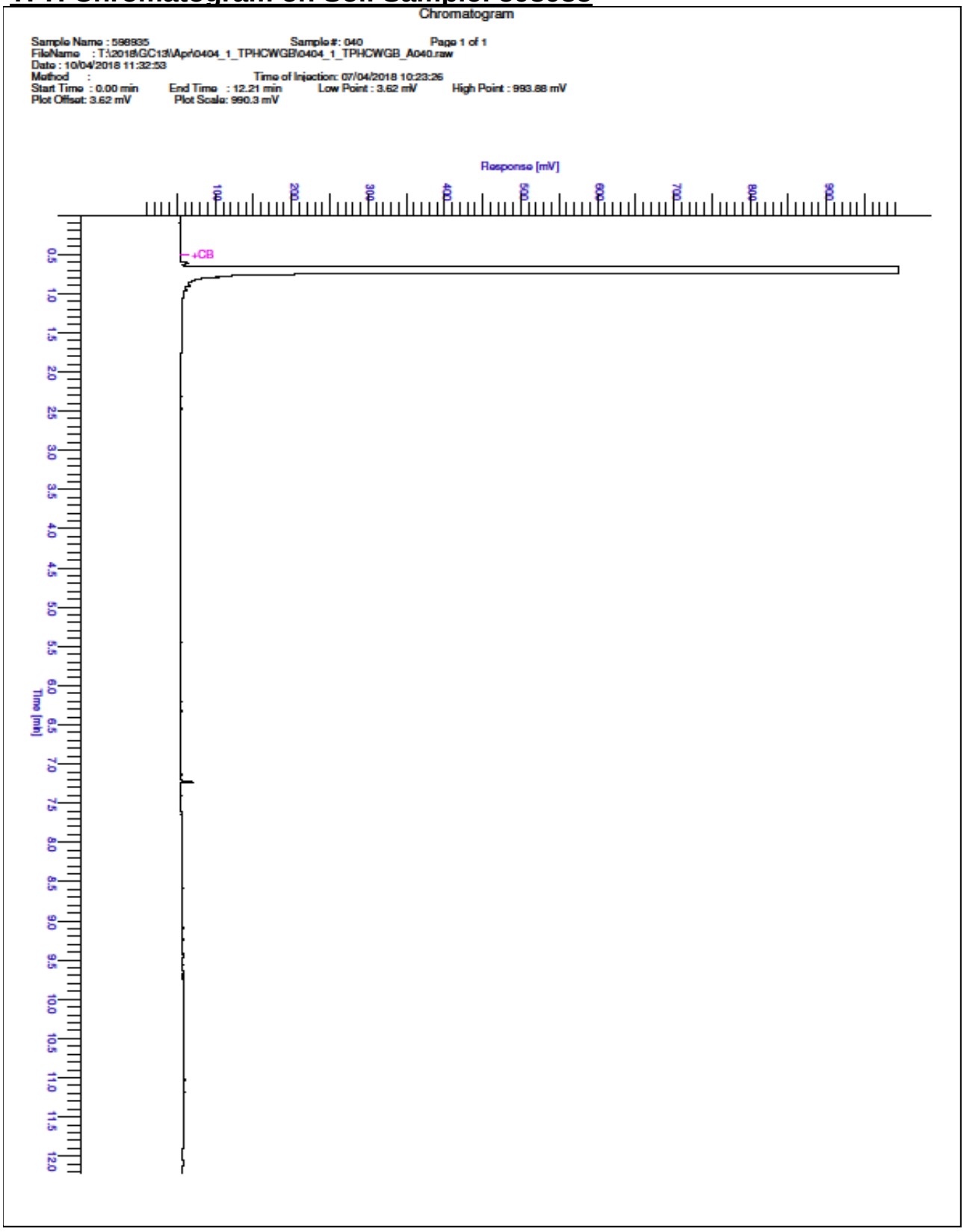
TPH Chromatogram on Soil Sample: 598933



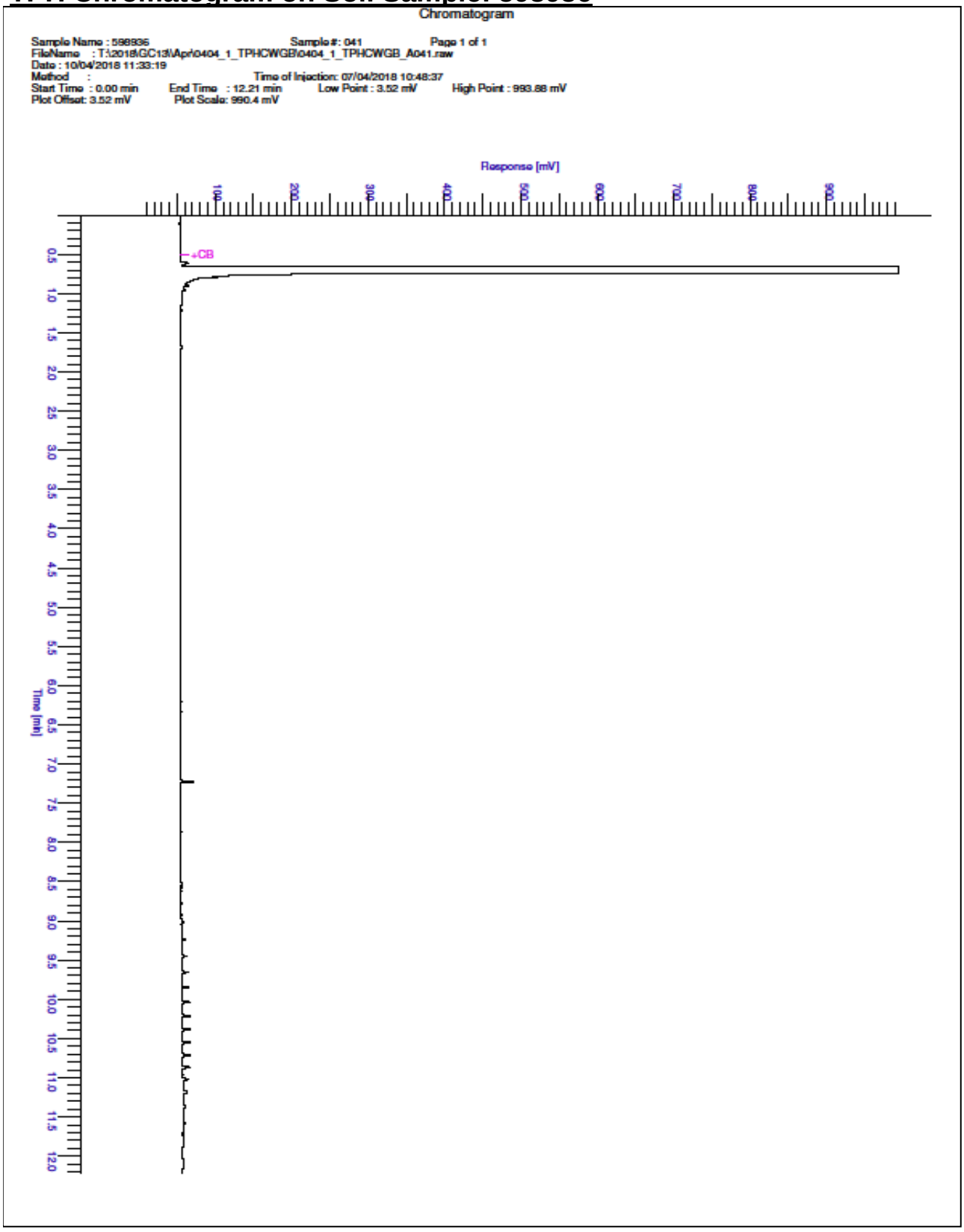
TPH Chromatogram on Soil Sample: 598934



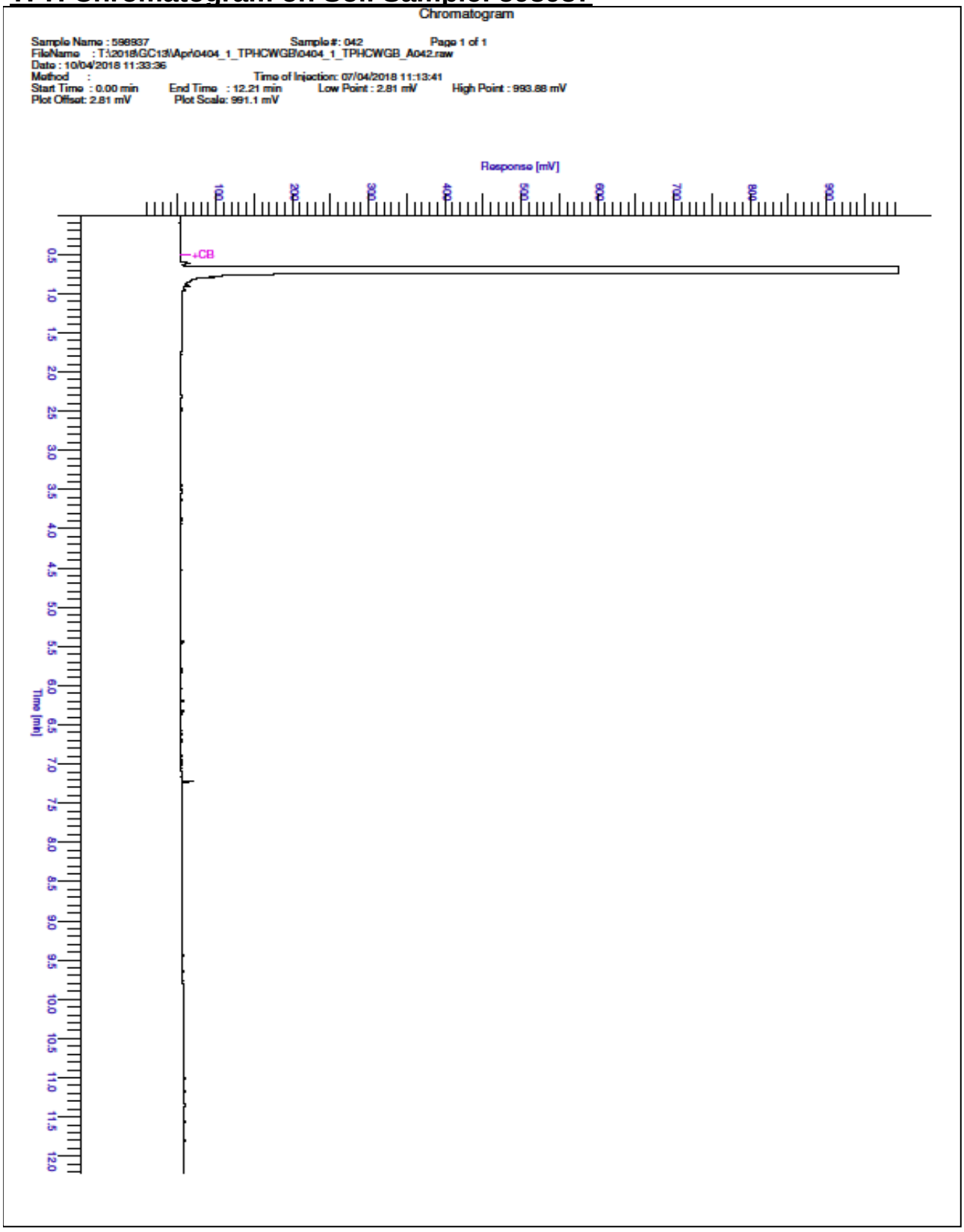
TPH Chromatogram on Soil Sample: 598935



TPH Chromatogram on Soil Sample: 598936



TPH Chromatogram on Soil Sample: 598937



Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.

Test Methods

SOP	Title	Parameters included	Method summary
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix B

Certificates of Analysis - Geotechnical

TEST REPORT

Client LK Consult Ltd

Address Unit 29 Eton Business
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKC 12 1257 -
Blackley mere

Job Number MRN 3100/90
Date of Issue 09 April 2018
Page **1 of 24**

Approved Signatories

S J Hutchings, O P Davies

Notes

1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.

2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.

3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation

4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted. This does not, however, guarantee the balance of the materials from which the tested samples have been taken to be of equal quality.

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING
1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

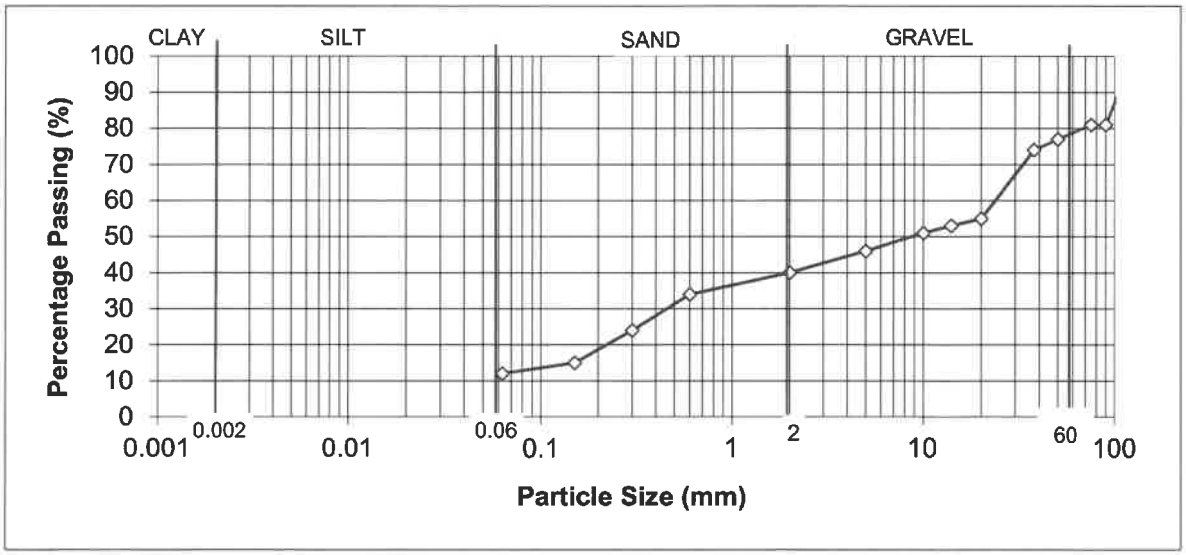
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S101	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75957	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	51	
90	81		5	46	
75	81		2	40	
50	77		0.6	34	
37.5	74		0.3	24	
20	55		0.15	15	
14	53		0.063	12	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 21%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

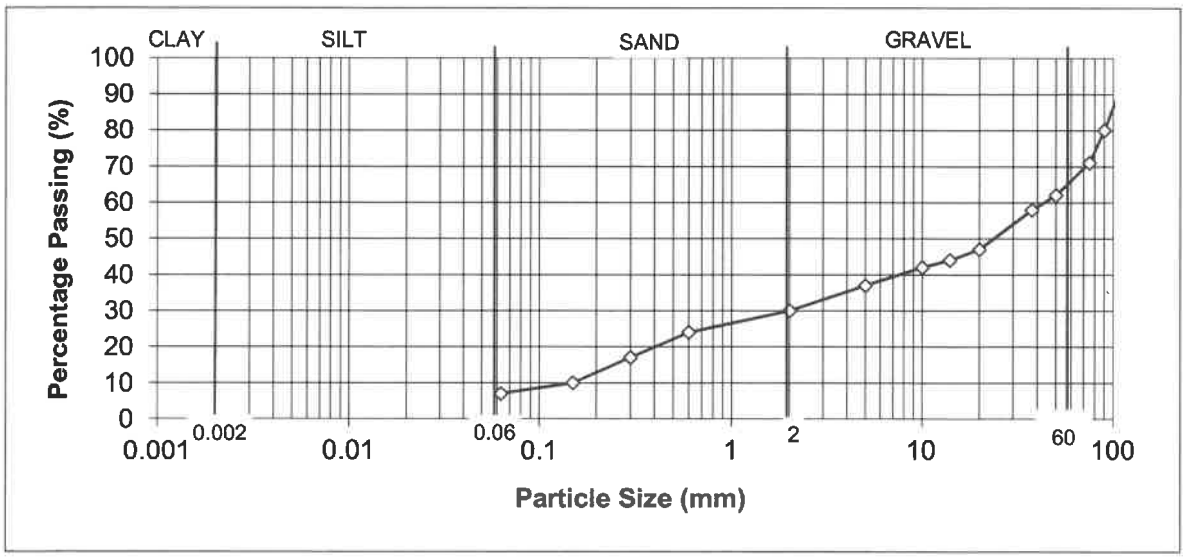
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S103	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75958	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	42	15-60
90	80	80-100	5	37	10-45
75	71	65-100	2	30	
50	62		0.6	24	0-25
37.5	58	45-100	0.3	17	
20	47		0.15	10	
14	44		0.063	7	0-12



REMARKS
Sample complies with the grading specification for a 6F2 material (SHW 2016)
As received moisture content = 13%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

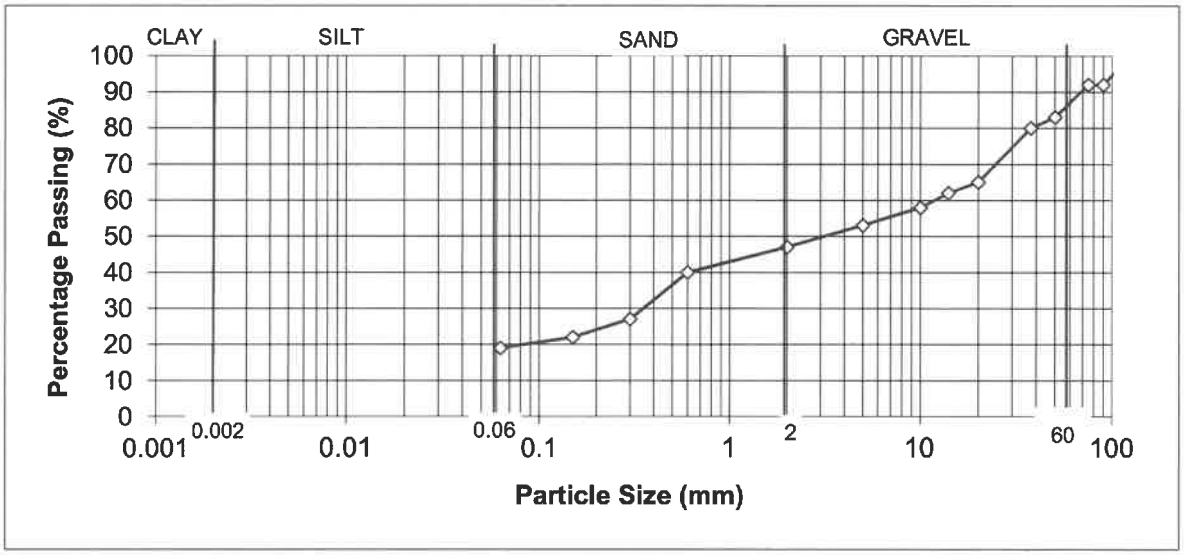
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S105	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75959	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	58	
90	92		5	53	
75	92		2	47	15-80
50	83		0.6	40	
37.5	80		0.3	27	
20	65		0.15	22	
14	62		0.063	19	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 16%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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UKAS TESTING 1580

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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

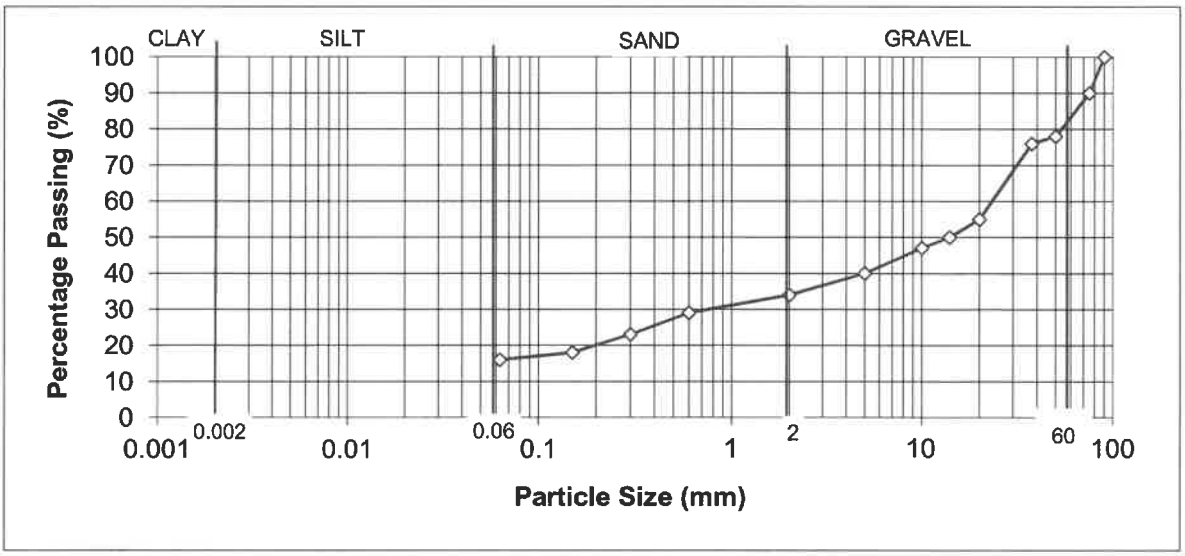
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S106	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75960	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	47	
90	100		5	40	
75	90		2	34	15-80
50	78		0.6	29	
37.5	76		0.3	23	
20	55		0.15	18	
14	50		0.063	16	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 16%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

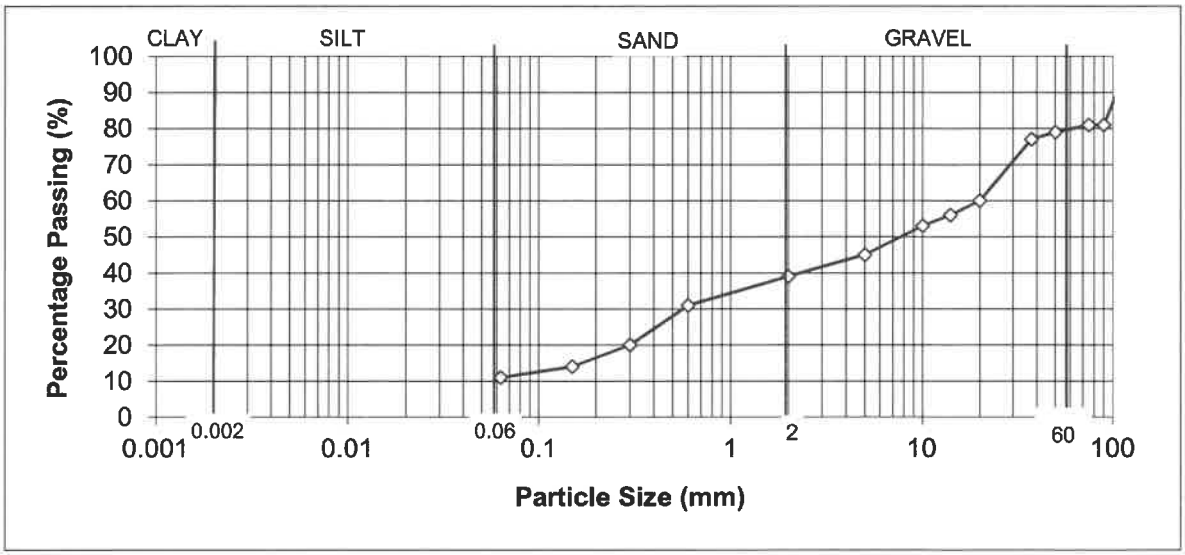
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S109	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75961	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	53	
90	81		5	45	
75	81		2	39	
50	79		0.6	31	
37.5	77		0.3	20	
20	60		0.15	14	
14	56		0.063	11	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 20%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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Reddish, Stockport SK5 7BR
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UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

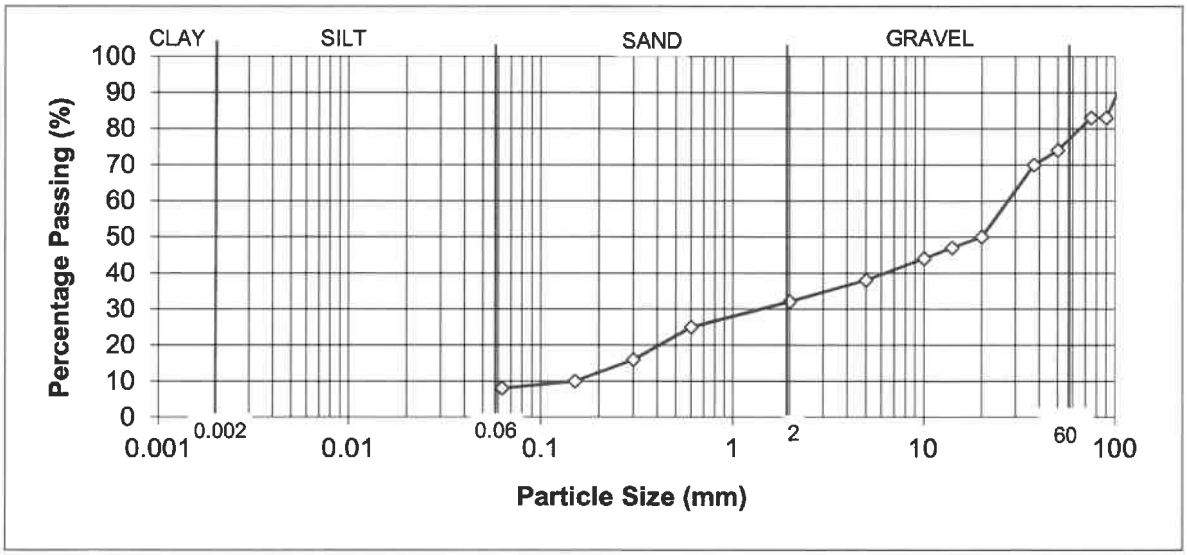
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S111	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75962	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	44	15-60
90	83	80-100	5	38	10-45
75	83	65-100	2	32	
50	74		0.6	25	0-25
37.5	70	45-100	0.3	16	
20	50		0.15	10	
14	47		0.063	8	0-12



REMARKS
Sample complies with the grading specification for a 6F2 material (SHW 2016)
As received moisture content = 15%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING
1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

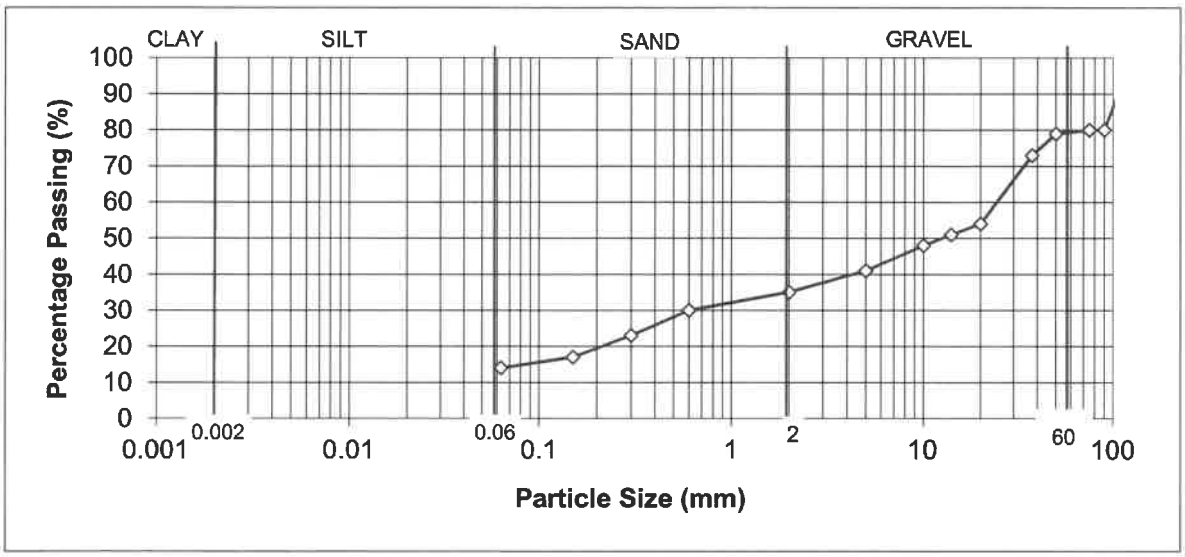
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S112	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75963	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	48	
90	80		5	41	
75	80		2	35	
50	79		0.6	30	
37.5	73		0.3	23	
20	54		0.15	17	
14	51		0.063	14	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 17%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

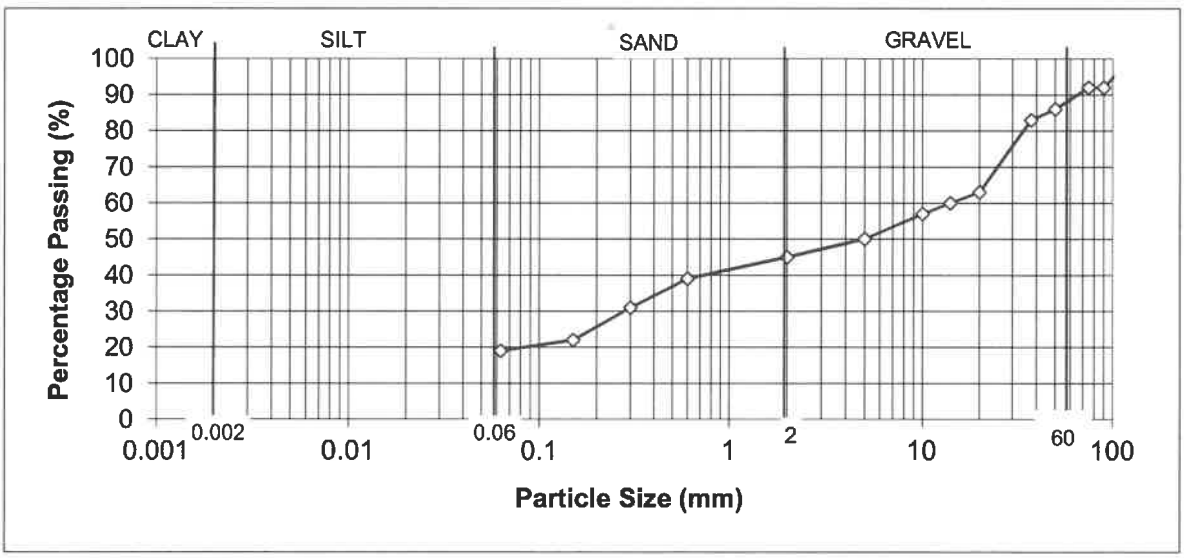
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S114	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75964	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	57	
90	92		5	50	
75	92		2	45	15-80
50	86		0.6	39	
37.5	83		0.3	31	
20	63		0.15	22	
14	60		0.063	19	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 15%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING
1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

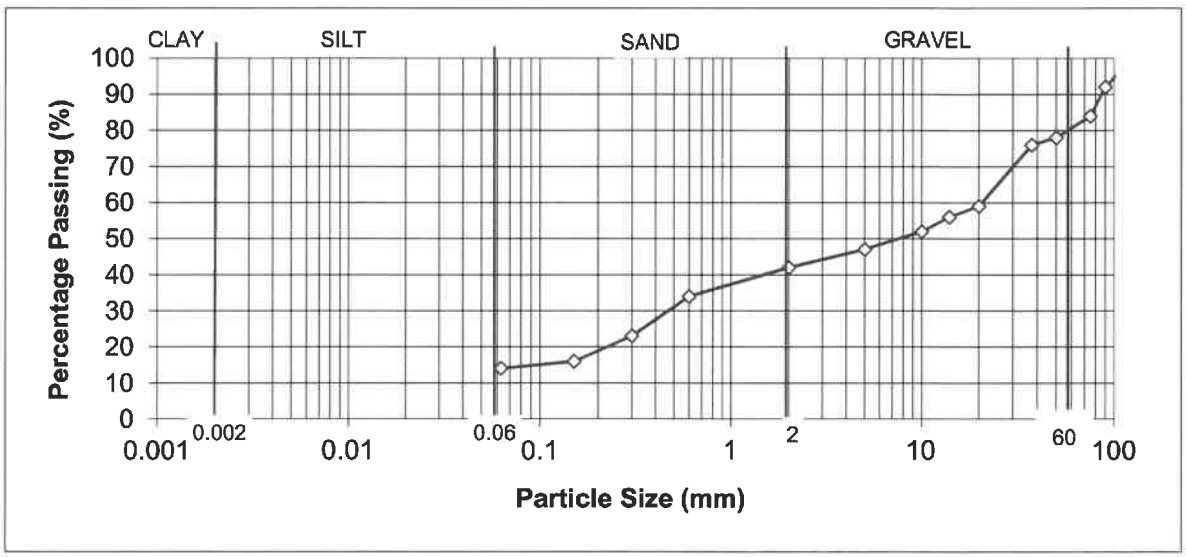
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S116	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75965	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	52	
90	92		5	47	
75	84		2	42	
50	78		0.6	34	
37.5	76		0.3	23	
20	59		0.15	16	
14	56		0.063	14	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 17%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

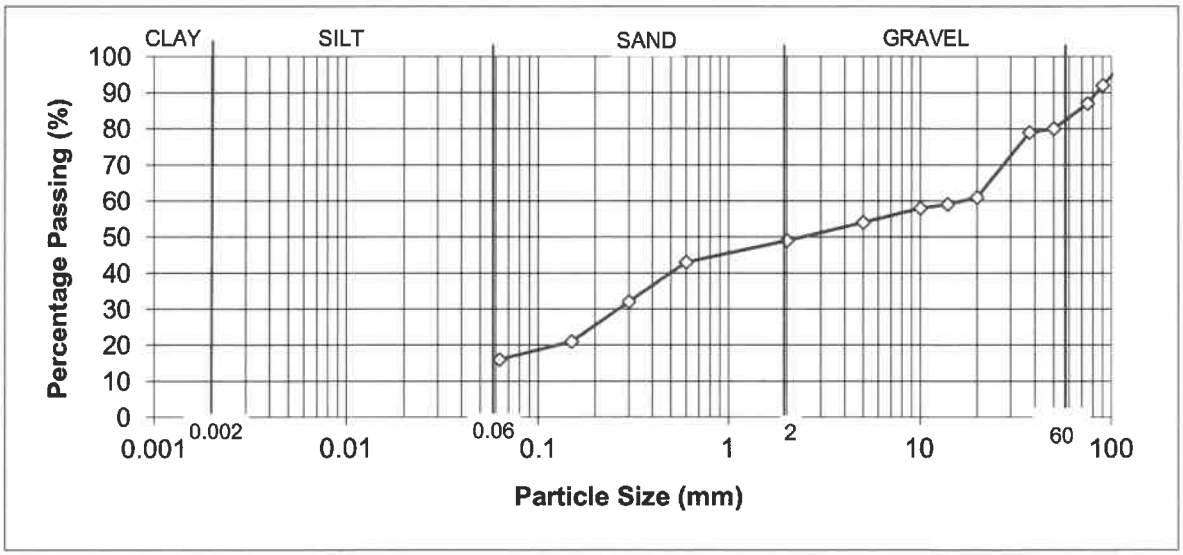
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S118	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75966	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	58	
90	92		5	54	
75	87		2	49	15-80
50	80		0.6	43	
37.5	79		0.3	32	
20	61		0.15	21	
14	59		0.063	16	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 19%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

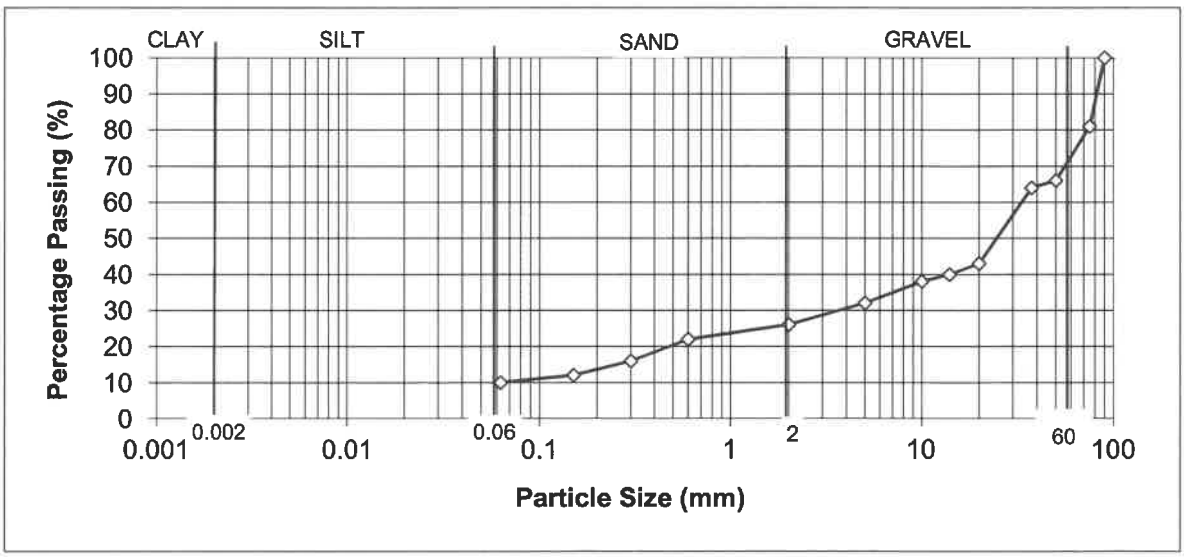
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S119	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75967	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	38	15-60
90	100	80-100	5	32	10-45
75	81	65-100	2	26	
50	66		0.6	22	0-25
37.5	64	45-100	0.3	16	
20	43		0.15	12	
14	40		0.063	10	0-12



REMARKS

Sample complies with the grading specification for a 6F2 material (SHW 2016)

As received moisture content = 14%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

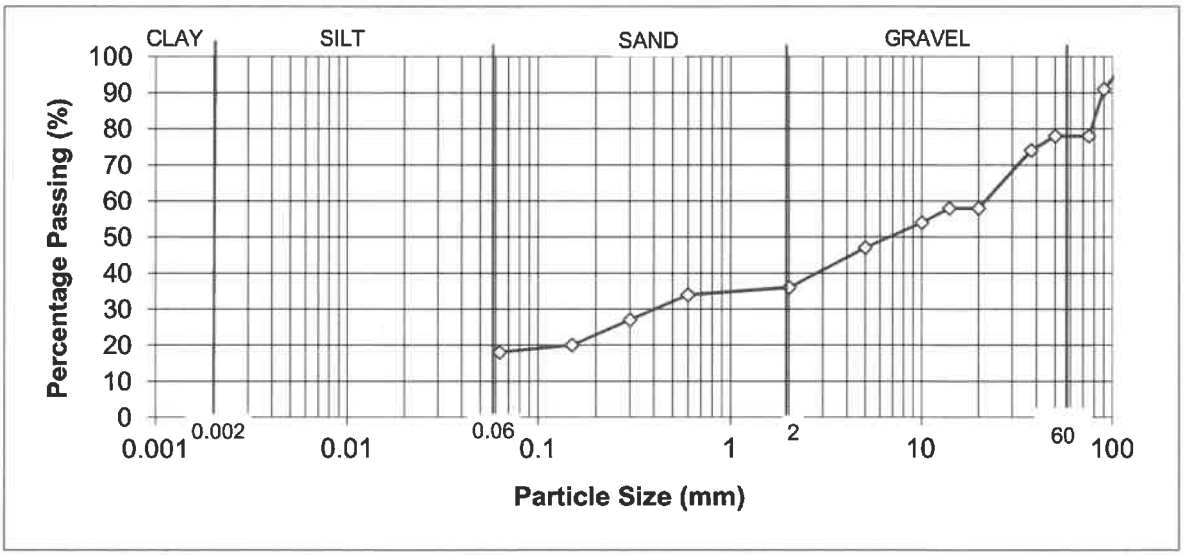
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S120	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75968	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	54	
90	91		5	47	
75	78		2	36	15-80
50	78		0.6	34	
37.5	74		0.3	27	
20	58		0.15	20	
14	58		0.063	18	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 17%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
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UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

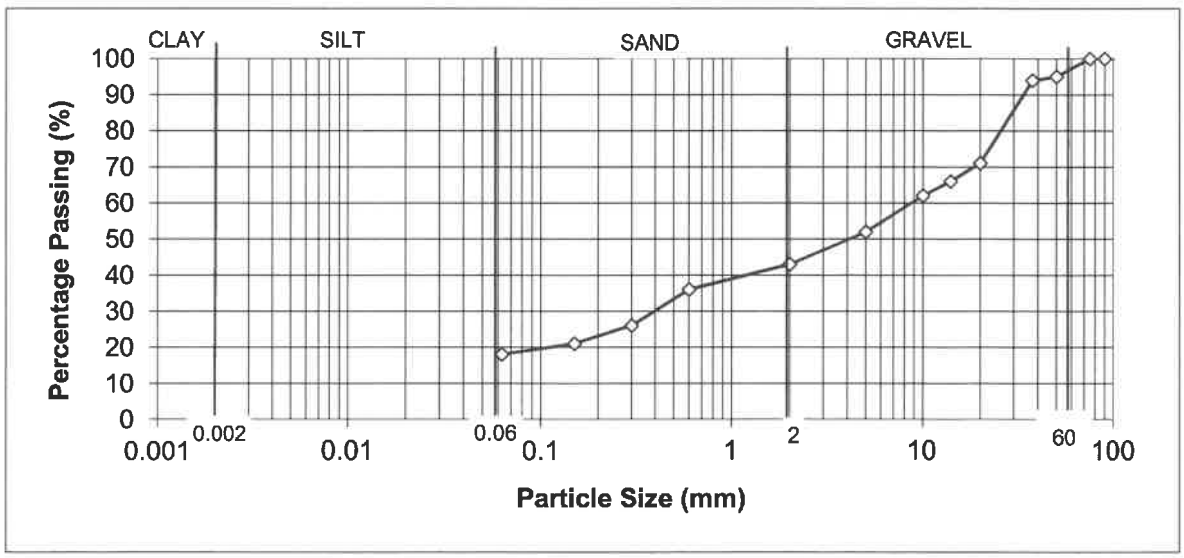
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S121	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75969	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	62	
90	100		5	52	
75	100		2	43	15-80
50	95		0.6	36	
37.5	94		0.3	26	
20	71		0.15	21	
14	66		0.063	18	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 18%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

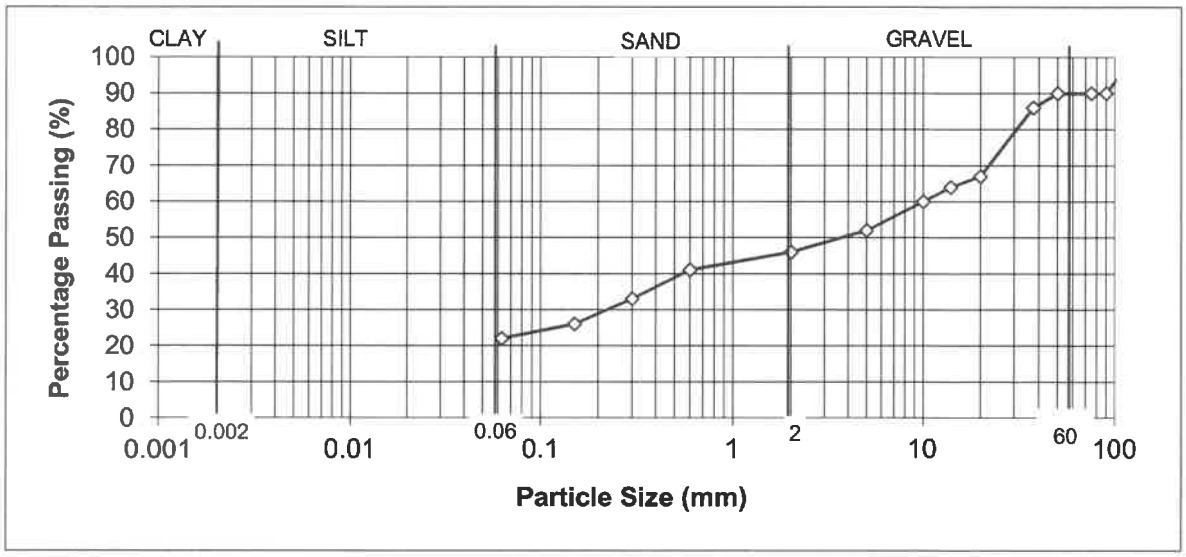
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S122	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75970	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	60	
90	90		5	52	
75	90		2	46	15-80
50	90		0.6	41	
37.5	86		0.3	33	
20	67		0.15	26	
14	64		0.063	22	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 18%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX

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PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

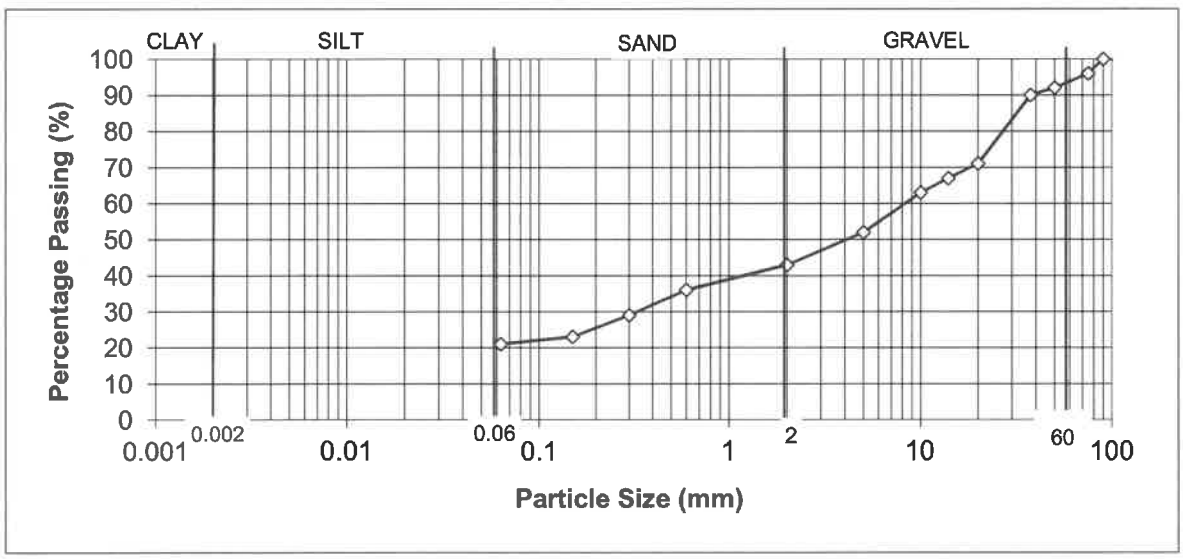
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S123	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75971	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	63	
90	100		5	52	
75	96		2	43	15-80
50	92		0.6	36	
37.5	90		0.3	29	
20	71		0.15	23	
14	67		0.063	21	15-80



REMARKS

Sample complies with the grading specification for a 2C material (SHW 2016)

As received moisture content = 16%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

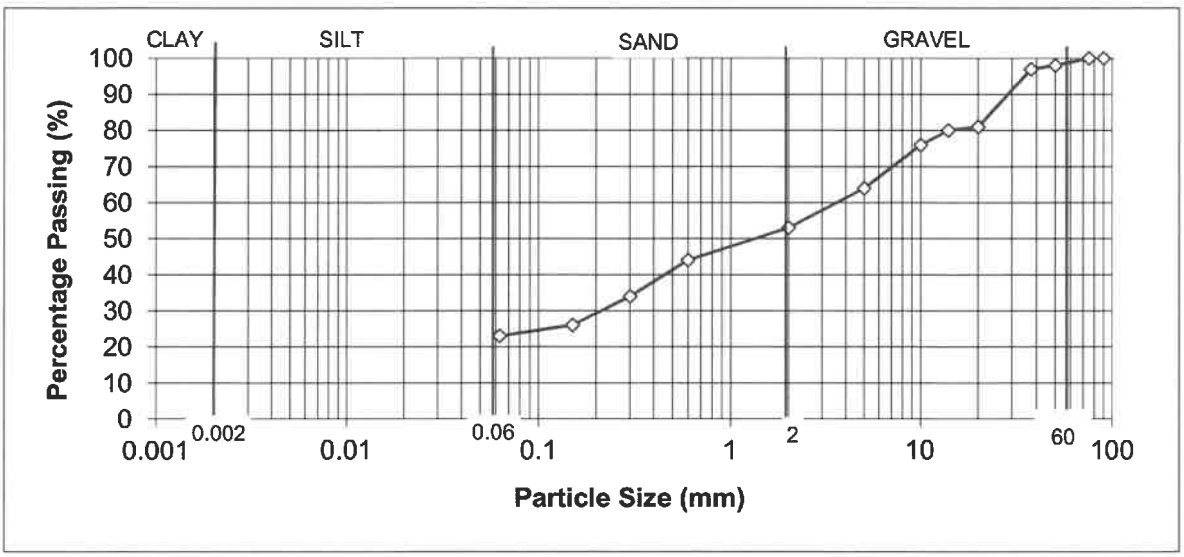
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S124	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75972	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	76	
90	100		5	64	
75	100		2	53	15-80
50	98		0.6	44	
37.5	97		0.3	34	
20	81		0.15	26	
14	80		0.063	23	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 16%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX

33C Vauxhall Ind. Estate, Greg Street
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UKAS TESTING
1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

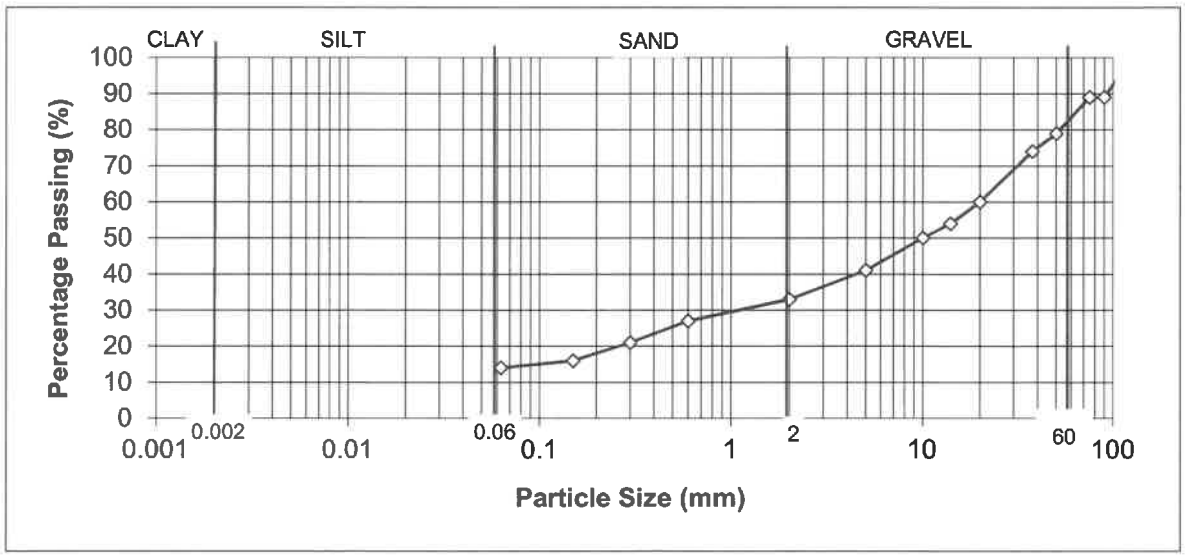
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S125	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75973	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	50	
90	89		5	41	
75	89		2	33	
50	79		0.6	27	
37.5	74		0.3	21	
20	60		0.15	16	
14	54		0.063	14	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 17%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

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Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

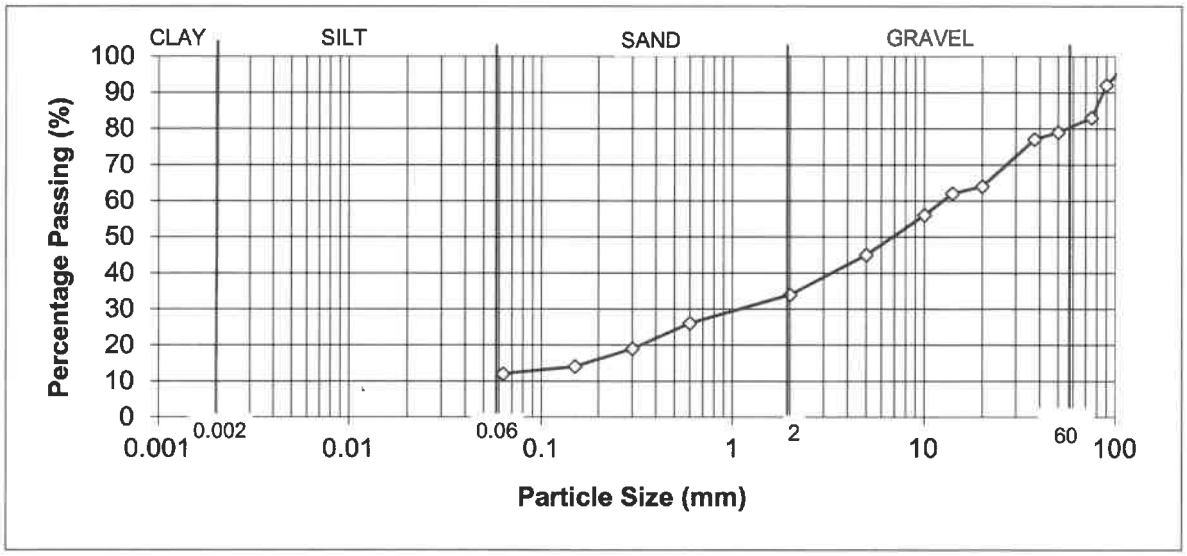
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S126	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75974	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	10	56	
90	92		5	45	
75	83		2	34	
50	79		0.6	26	
37.5	77		0.3	19	
20	64		0.15	14	
14	62		0.063	12	<15



REMARKS
Sample complies with the grading specification for a 1A material (SHW 2016)
As received moisture content = 16%
Uniformity coefficient = >10

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
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UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

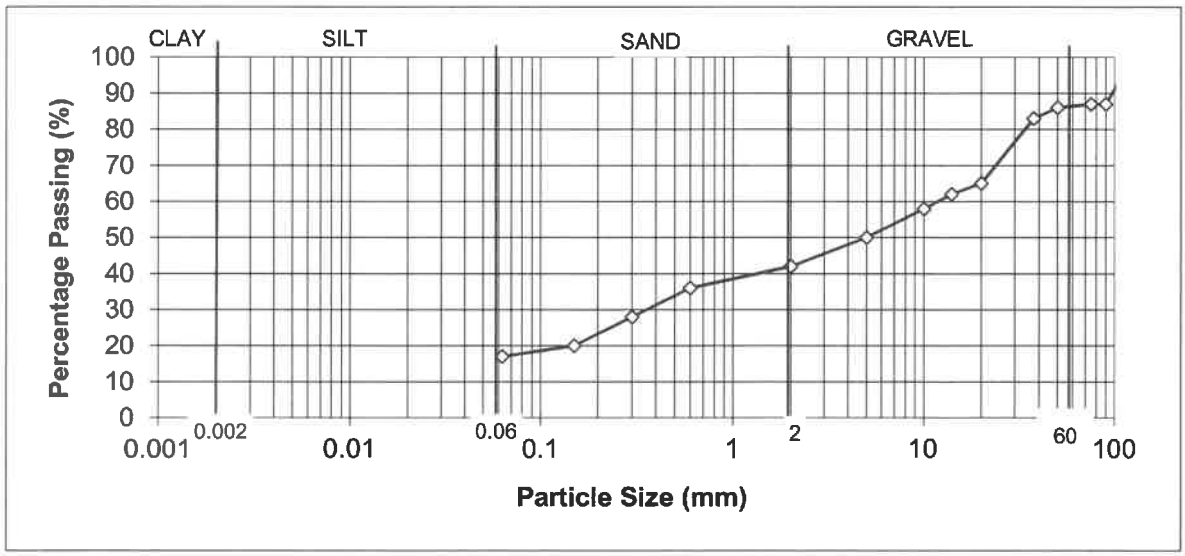
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S127	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75975	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	58	
90	87		5	50	
75	87		2	42	15-80
50	86		0.6	36	
37.5	83		0.3	28	
20	65		0.15	20	
14	62		0.063	17	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 19%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

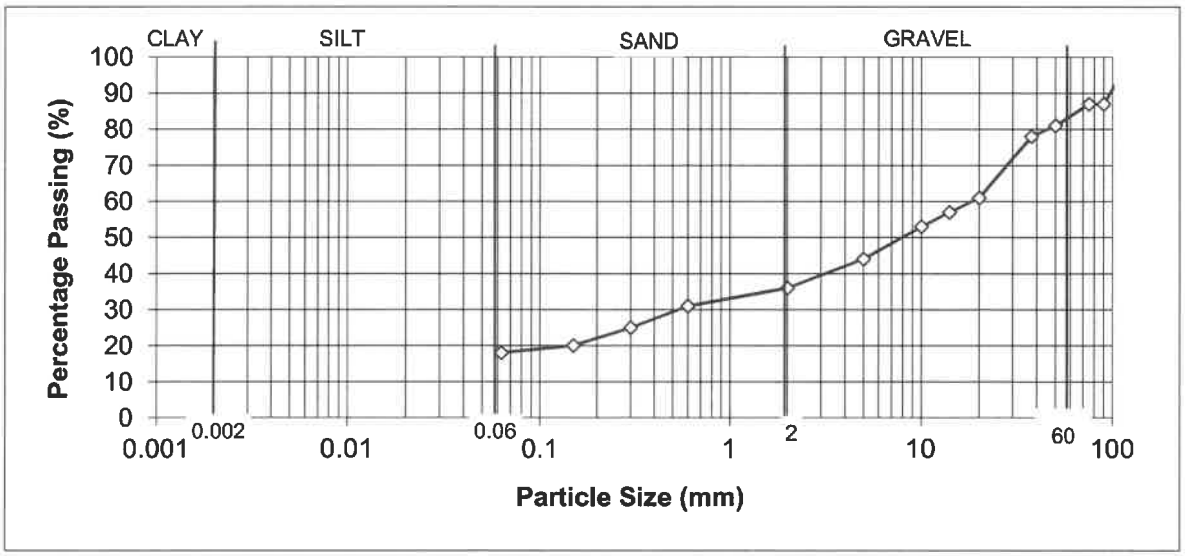
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S128	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75976	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	53	
90	87		5	44	
75	87		2	36	15-80
50	81		0.6	31	
37.5	78		0.3	25	
20	61		0.15	20	
14	57		0.063	18	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 20%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

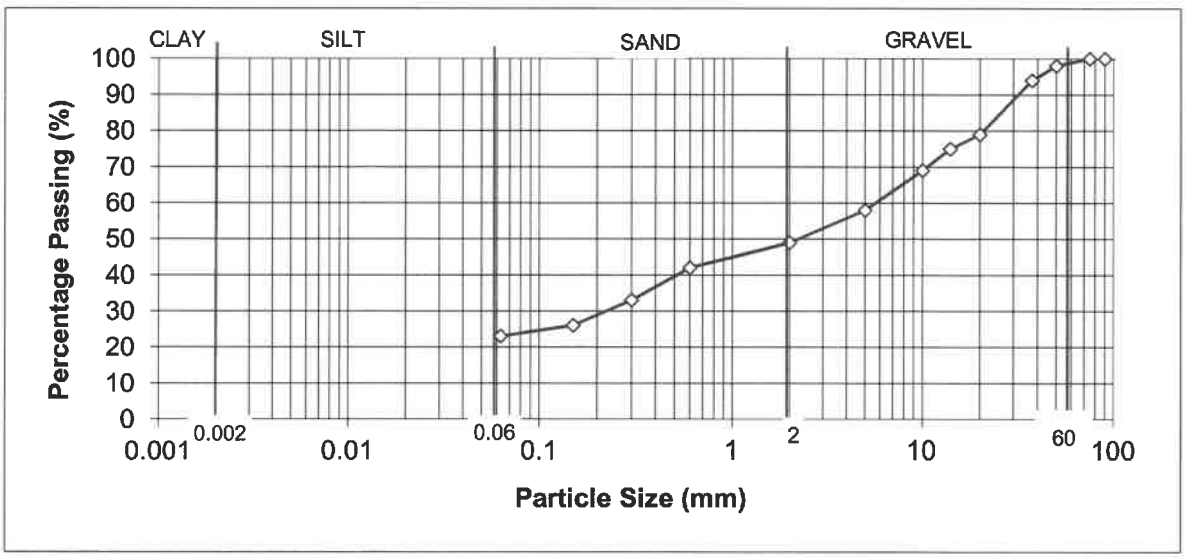
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S129	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75977	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	69	
90	100		5	58	
75	100		2	49	15-80
50	98		0.6	42	
37.5	94		0.3	33	
20	79		0.15	26	
14	75		0.063	23	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 20%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX
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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

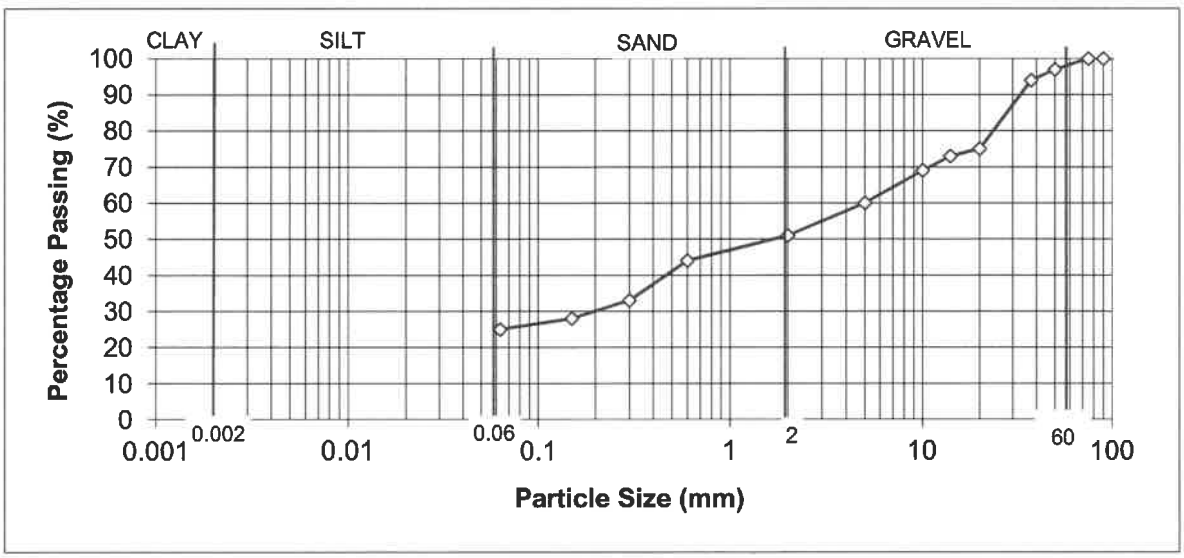
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S130	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75978	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	69	
90	100		5	60	
75	100		2	51	15-80
50	97		0.6	44	
37.5	94		0.3	33	
20	75		0.15	28	
14	73		0.063	25	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 21%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

MURRAY RIX

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

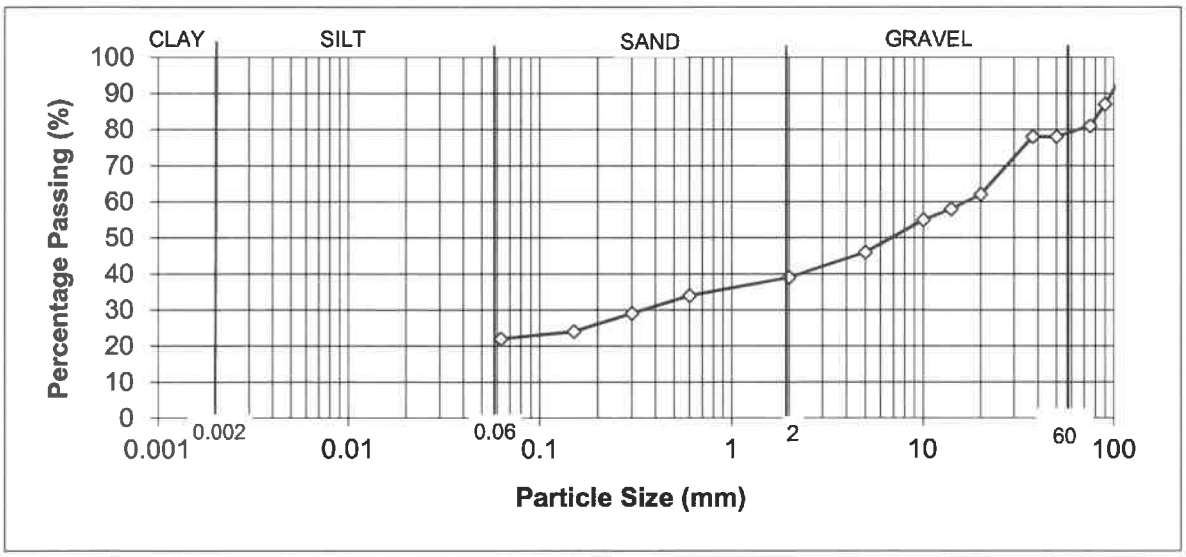
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd
SITE	Blackley Mere
JOB NUMBER	MRN 3100/90

SAMPLE LABEL	S131	DATE SAMPLED	26-Mar-18
LAB SAMPLE No	75979	DATE RECEIVED	28-Mar-18
DATE TESTED	29-Mar-18	SAMPLED BY	Client

MATERIAL	Fill
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	55	
90	87		5	46	
75	81		2	39	15-80
50	78		0.6	34	
37.5	78		0.3	29	
20	62		0.15	24	
14	58		0.063	22	15-80



REMARKS
Sample complies with the grading specification for a 2C material (SHW 2016)
As received moisture content = 22%

SIGNED

NAME O.P. Davies (Deputy Laboratory Manager) DATE 09-Apr-18

Appendix C

Profile Logs

LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP101**
Excavation Method 13 tonne excavator.	**Dimensions** 2.00m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384022 E 403007 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.00)	MADE GROUND: Grass underlain by dark brown gravelly sandy CLAY with occasional angular cobbles of brick and concrete, frequent waste wrappers, roots, metals, ceramics, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Lenses of black coarse organic SAND from 1.50mbgl.		
2.00 2.00	B1 D2				2.00	Complete at 2.00m		



Remarks

Trial pit damp and unstable.
Slight organic odour throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP101

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LK CONSULT LTD
Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	**TP102**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	2.30m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384024 E 403018 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.30)	MADE GROUND: Grass underlain by dark brown gravelly sandy CLAY with abundant brick (whole and fragments) and rootlets, occasional concrete, waste wrappers, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse.		
2.00	D1		Water strike(1) at 1.40m.		2.30	Complete at 2.30m		▽1



Remarks

Trial pit wet and unstable.
Moderate organic odour throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP102

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LK CONSULT LTD

Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	TP103

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	N/A		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384041 E 403054 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.00)	MADE GROUND: Brown slightly clayey gravelly SAND with abundant brick (whole and fragments), occasional concrete (whole flags and fragments), waste wrappers, metals, textiles and rare ceramics, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse.		
2.00 2.00	B1 D2				2.00	Complete at 2.00m		



Remarks

Pit created by slow scrape on side of stockpile.
Stockpile dry but unstable.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP103

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LK CONSULT LTD

Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
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Site	Trial Pit Number
Blackley Mere, Manchester	TP104

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	N/A		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384028 E 403053 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.00)	MADE GROUND: Brown very cobbly very gravelly slightly clayey SAND with abundant brick, frequent concrete and metals, occasional rootlets, waste wrappers, ceramics and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising sandstone, brick and concrete.		
2.00	D1				2.00	Complete at 2.00m		



Remarks

Stockpile dry but unstable.
Pit created by slow scrape on side of stockpile.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP104

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Site	Trial Pit Number
Blackley Mere, Manchester	**TP105**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	2.70m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384054 E 403071 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.70)	MADE GROUND: Grass underlain by brown very gravelly cobbly sandy CLAY with abundant brick, occasional concrete, metals, rootlets, ceramics, textiles, tarmac and rare clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising sandstone and tarmac.		
2.70 2.70	B1 D2				2.70	Complete at 2.70m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP105

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP106**
Excavation Method 13 tonne excavator.	**Dimensions** 4.70m x 0.60m x 2.00m **Location** (Handheld GPS) 384087 E 403052 N	**Ground Level (mOD)** **Dates** 21/03/2018	**Client** Salford Excavations **Project Contractor** LKC	**Job Number** LKC 17 1257 **Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(4.70)	MADE GROUND: Brown orange very gravelly sandy CLAY with abundant brick (whole and fragments) and occasional tarmac, concrete, waste wrappers, ceramic and rare ash, clinker and metal. Sand is fine to coarse. Gravel is fine to coarse.		
4.70 4.70	B1 D2				4.70	Complete at 4.70m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP106

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP107**
Excavation Method 13 tonne excavator.	**Dimensions** 3.10m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384081 E 403058 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.10)	MADE GROUND: Dark brown cobbly gravelly sandy CLAY with abundant brick (whole and fragments), frequent metals, concrete and tarmac, occasional waste wrappers, ceramics and rare ash and clinker. Gravel is fine to coarse. Cobbles are angular comprising sandstone, brick and concrete.		
3.10	D1				3.10	Complete at 3.10m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP107

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP108**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
13 tonne excavator.	2.60m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384065 E 403057 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(1.20)	MADE GROUND: Grass underlain by dark brown very sandy gravelly CLAY with abundant rootlets, rare brick and sandstone. Sand is fine to coarse. Gravel is fine to coarse. Probable topsoil.		
1.00	D1				1.20	MADE GROUND: Dark brown cobbly gravelly sandy CLAY with abundant brick (whole and fragments), frequent metals, waste wrappers and rootlets. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick.		
					(1.40)			
					2.60	Complete at 2.60m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	**Logged By**	**Figure No.**
1:40	KW	LKC 17 1257.TP108

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Site	Trial Pit Number
Blackley Mere, Manchester	**TP109**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384058 E 403047 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Dark brown mottled orange cobbly gravelly sandy CLAY with frequent brick and concrete, occasional tarmac and metals and rare rootlets, waste wrappers, ceramics and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick and concrete.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry and unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP109

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP110**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
13 tonne excavator.	3.20m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384057 E 403031 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.20)	MADE GROUND: Dark brown cobbly gravelly sandy CLAY with abundant brick and concrete, occasional tarmac and metals and rare rootlets, waste wrappers, ceramics, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick and concrete.		
3.20	D1				3.20	Complete at 3.20m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	**Logged By**	**Figure No.**
1:40	KW	LKC 17 1257.TP110

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP111**
Excavation Method 13 tonne excavator.	**Dimensions** 3.20m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384072 E 403043 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.20)	MADE GROUND: Brown gravelly sandy CLAY with frequent brick (whole and fragments) and concrete, occasional tarmac, ceramics, metals, waste wrappers, rootlets and rare ash, clinker and coal. Sand is fine to coarse. Gravel is fine to coarse.		
3.20 3.20	B1 D2				3.20	Complete at 3.20m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP111

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP112**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
13 tonne excavator.	3.70m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384079 E 403034 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.70)	MADE GROUND: Brown very gravelly cobbly sandy CLAY with frequent brick, concrete, tarmac, wood and rare metals, rootlets, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.70 3.70	B1 D2				3.70	Complete at 3.70m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	**Logged By**	**Figure No.**
1:40	KW	LKC 17 1257.TP112

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LK CONSULT LTD
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Site	Trial Pit Number
Blackley Mere, Manchester	TP113

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.40m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384103 E 403032 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.40)	MADE GROUND: Dark brown cobbly gravelly sandy CLAY with frequent brick, concrete and tarmac and occasional ceramics, glass, waste wrappers, rootlets and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.40	D1				3.40	Complete at 3.40m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP113

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP114**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
13 tonne excavator.	3.40m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384095 E 403023 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.40)	MADE GROUND: Dark brown to black gravelly sandy CLAY with abundant brick (whole and fragments), occasional concrete, tarmac, wood, glass, rootlets and rare waste wrappers. Sand is fine to coarse. Gravel is fine to coarse.		
3.40 3.40	B1 D2				3.40	Complete at 3.40m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	**Logged By**	**Figure No.**
1:40	KW	LKC 17 1257.TP114

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LK CONSULT LTD
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Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	TP115

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.40m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384089 E 403033 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.40)	MADE GROUND: Brown very gravelly sandy CLAY with abundant brick (whole and fragments), occasional concrete, tarmac, wood, rootlets and waste wrappers. Sand is fine to coarse. Gravel is fine to coarse.		
3.40	D1				3.40	Complete at 3.40m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP115

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LK CONSULT LTD

Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	TP116

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384109 E 403047 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Brown gravelly sandy CLAY with frequent brick (whole and fragments), occasional wood, metals, waste wrappers, rootlets and rare ash, clinker and tarmac. Sand is fine to coarse. Gravel is fine to coarse.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry and unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP116

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Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	**TP117**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.20m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384104 E 403039 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.20)	MADE GROUND: Grass underlain by brown orange gravelly sandy CLAY with frequent brick (whole and fragments), occasional wood, metals, waste wrappers, rootlets and rare ash, clinker and tarmac. Sand is fine to coarse. Gravel is fine to coarse.		
3.20	D1				3.20	Complete at 3.20m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP117

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP118**
Excavation Method 13 tonne excavator.	**Dimensions** 3.40m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384099 E 403010 N	**Dates** 21/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.40)	MADE GROUND: Dark brown gravelly sandy CLAY with frequent brick (whole and fragments), tarmac, rootlets and occasional concrete, wood, metals, glass and waste wrappers and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse.		
3.40	D1				3.40	Complete at 3.40m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP118

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP119**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384083 E 403014 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Dark brown cobbly gravelly sandy CLAY with frequent brick, occasional metals, wood, waste wrappers, concrete, rootlets and rare ash, clinker and glass. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	**Logged By**	**Figure No.**
1:40	KW	LKC 17 1257.TP119

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP120**
Excavation Method 13 tonne excavator.	**Dimensions** 4.20m x 0.60m x 2.00m **Location** (Handheld GPS) 384081 E 403004 N	**Ground Level (mOD)** **Dates** 26/03/2018	**Client** Salford Excavations **Project Contractor** LKC	**Job Number** LKC 17 1257 **Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	MADE GROUND: Brown gravelly clayey SAND with frequent brick (whole and fragments), concrete, tarmac, glass and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Slight organic odour.		
					(1.50)	MADE GROUND: Brown black mottled green sandy gravel with abundant waste wrappers, textiles, glass, wood, roots and frequent plastic, metals and clay inclusions. Sand is fine to coarse. Gravel is fine to coarse. Identified as waste material. Strong organic and putrid odour noted between 0.30 to 1.80mbgl.		
					1.80 (2.40)	MADE GROUND: Brown gravelly sandy CLAY with frequent brick, concrete, glass and occasional wood and ceramics. Sand is fine to coarse. Gravel is fine to coarse. Slight organic odour.		
4.20 4.20	B1 D2				4.20	Complete at 4.20m		



Remarks

Trial pit dry but unstable.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP120

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP121**
Excavation Method 13 tonne excavator.	**Dimensions** 3.70m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384065 E 403004 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.70)	MADE GROUND: Brown cobbly gravelly sandy CLAY with frequent brick (whole and fragments), concrete, metals, wood, plastics, waste wrappers and rare glass, ceramics and textiles. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.70 3.70	B1 D2				3.70	Complete at 3.70m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP121

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LK CONSULT LTD Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com		**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP122**
Excavation Method 13 tonne excavator.	**Dimensions** 2.40m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384064 E 403016 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.40)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with frequent brick, occasional concrete, tarmac, metals, wood and rare glass, ceramics, rootlets and waste wrappers. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
2.40 2.40	B1 D2				2.40	Complete at 2.40m		



Remarks

Trial pit wet and unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP122

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Site	Trial Pit Number
Blackley Mere, Manchester	TP123

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.60m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257

Location (Handheld GPS)	Dates	Project Contractor	Sheet
384088 E 403000 N	26/03/2018	LKC	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.60)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with frequent brick, occasional ceramics, wood, concrete, metals, textiles and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.60 3.60	B1 D2				3.60	Complete at 3.60m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP123

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Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	**TP124**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384101 E 402990 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with frequent rootlets and brick, occasional ceramics, wood, concrete, metals, textiles and rare ash and clinker. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP124

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Site	Trial Pit Number
Blackley Mere, Manchester	**TP125**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384103 E 402967 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Dark brown very gravelly very sandy cobbly CLAY with abundant brick, occasional ceramics, concrete, tarmac, rootlets, metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP125

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LK CONSULT LTD

Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS
Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	TP126

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.00m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384087 E 402968 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.00)	MADE GROUND: Dark brown very gravelly cobbly sandy CLAY with abundant brick, occasional ceramics, concrete, tarmac and metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.00 3.00	B1 D2				3.00	Complete at 3.00m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP126

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP127**
Excavation Method 13 tonne excavator.	**Dimensions** 2.50m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384070 E 402971 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.50)	MADE GROUND: Dark brown very gravelly cobbly sandy CLAY with abundant brick, occasional concrete, tarmac and metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
2.50 2.50	B1 D2				2.50	Complete at 2.50m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP127

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Site	Trial Pit Number
Blackley Mere, Manchester	**TP128**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	2.90m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384049 E 402972 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.90)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with abundant brick, occasional concrete, tarmac, rootlets, metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
2.90 2.90	B1 D2				2.90	Complete at 2.90m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP128

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LK CONSULT LTD
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Tel: 0161 763 7200 web: www.thelkgroup.com

Site	Trial Pit Number
Blackley Mere, Manchester	**TP129**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
13 tonne excavator.	3.20m x 0.60m x 2.00m		Salford Excavations	LKC 17 1257
	Location (Handheld GPS) 384059 E 402962 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(3.20)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with occasional brick, concrete, tarmac, rootlets metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
3.20 3.20	B1 D2				3.20	Complete at 3.20m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP129

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP130**
Excavation Method 13 tonne excavator.	**Dimensions** 2.50m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384051 E 402984 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.50)	MADE GROUND: Dark brown to black gravelly sandy CLAY with occasional brick (whole and fragments), concrete, tarmac and metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse.		
2.50 2.50	B1 D2				2.50	Complete at 2.50m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP130

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LK GROUP	**LK CONSULT LTD** Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200 web: www.thelkgroup.com	**Site** Blackley Mere, Manchester	**Trial Pit Number** **TP131**
Excavation Method 13 tonne excavator.	**Dimensions** 2.40m x 0.60m x 2.00m	**Ground Level (mOD)**	**Client** Salford Excavations	**Job Number** LKC 17 1257
	Location (Handheld GPS) 384071 E 402983 N	**Dates** 26/03/2018	**Project Contractor** LKC	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(2.40)	MADE GROUND: Dark brown to black cobbly gravelly sandy CLAY with occasional brick, concrete, tarmac, plastics and metals and rare waste wrappers and ash. Sand is fine to coarse. Gravel is fine to coarse. Cobbles are angular comprising brick, concrete and sandstone.		
2.40 2.40	B1 D2				2.40	Complete at 2.40m		



Remarks

Trial pit dry but unstable.
Slight organic odour noted throughout the strata.

Scale (approx)	Logged By	Figure No.
1:40	KW	LKC 17 1257.TP131

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Appendix D

Generic Assessment Criteria Values

Summary Table for the Generic Assessment Criteria for Human Health Risk Assessment Land Quality Management (LQM) S4ULs.

All GAC are based on sandy loam soils with a pH 7.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
			Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Metals	Inorganic Arsenic	6%	37	40	43	640	79	170
	Beryllium	6%	1.7	1.7	35	12	2.2	63
	Boron	6%	290	11,000	45	240,000	21,000	46,000
	Cadmium	6%	11	85	1.9	190	120	532
	Chromium (III)	6%	910	910	18,000	8,600	1,500	33,000
	Chromium (VI)	6%	6.0	6.0	1.8	33	7.7	220
	Copper	6%	2,400	7,100	520	68,000	12,000	44,000
	Elemental Mercury	6%	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}
	Inorganic Mercury	6%	40	56	19	1,100	120	240
	Methylmercury	6%	11	15	6.0	320	40	68
	Nickel	6%	180	180	230	980	230	3,400
	Selenium	6%	250	430	88	12,000	1,100	1,800
	Vanadium	6%	410	1,200	91	9,000	2,000	5,000
	Zinc	6%	3,700	40,000	620	730,000	81,000	170,000
BTEX Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90
		2.5%	0.17	0.70	0.034	47	72	100
		6%	0.37	1.4	0.075	90	73	110
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}

NOTES

$^{Sol / vap}$ = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
			Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000
		2.5%	5,400	35,000	950	540,000	74,000	150,000
		6%	11,000	37,000	2,200	540,000	74,000	150,000
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49
		2.5%	11	14	6.5	170	29	56
		6%	13	15	13	180	29	62
	Benzo(a)pyrene (only)	1%	2.2	3.2	0.97	35	5.7	11
		2.5%	2.7	3.2	2.0	35	5.7	12
		6%	3.0	3.2	3.5	36	5.7	13
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13
		2.5%	3.3	4.0	2.1	44	7.2	15
		6%	3.7	4.0	3.9	45	7.2	16
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400
		2.5%	340	360	470	4,000	640	1,500
		6%	350	360	640	4,000	640	1,600
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370
		2.5%	93	110	75	1,200	190	410
		6%	100	110	130	1,200	190	440
	Chrysene	1%	15	30	4.1	350	57	93
		2.5%	22	31	9.4	350	57	110
		6%	27	32	19	350	57	120
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3
		6%	0.3	0.32	0.43	3.6	0.58	1.4
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300
		2.5%	560	1,600	130	23,000	3,100	6,300
		6%	890	1,600	290	23,000	3,100	6,400
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150
		2.5%	36	46	21	510	82	170
		6%	41	46	39	510	82	180
	Naphthalene	1%	2.3 ^{f}	2.3 ^{f}	4.1 ^{f}	190 ^{f} (76.4) ^{sol}	4,900 ^{f}	1,200 ^{f} (76.4) ^{sol}
		2.5%	5.6 ^{f}	5.6 ^{f}	10 ^{f}	460 ^{f} (183) ^{sol}	4,900 ^{f}	1,900 ^{f} (183) ^{sol}
		6%	13 ^{f}	13 ^{f}	24 ^{f}	1,100 ^{f} (432) ^{sol}	4,900 ^{f}	3,000
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200
		2.5%	220	1,500	38	22,000	3,100	6,200
		6%	440	1,500	90	22,000	3,100	6,300
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000
		2.5%	1,200	3,800	270	54,000	7,400	15,000
		6%	2,000	3,800	620	54,000	7,400	15,000
	Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4
		2.5%	0.98	1.2	0.67	15	2.2	4.7
		6%	1.1	1.2	1.2	15	2.2	4.8

NOTES

$^{sol / vap}$ = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = naphthalene is based on comparison of inhalation exposure with TDI_{inhal} for localised effect.

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Petroleum Hydrocarbons	**Aliphatic**							
	EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304)^{sol}	95,000 (304) ^{sol}
	EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}
	EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}
	EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}
	EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}
	EC>16-35	1%	65,000 (8.48) ^{f,sol}	65,000 (8.48) ^{f,sol}	260,000 ^{f}	160,000 ^{f}	250,000 ^{f}	450,000 ^{f}
	EC>35-44	1%	65,000 (8.48) ^{f,sol}	65,000 (8.48) ^{f,sol}	260,000 ^{f}	160,000 ^{f}	250,000 ^{f}	450,000 ^{f}
	Aliphatic							
	EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}
	EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}
	EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}
	EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}
	EC>12-16	2.5%	2,400 (59) ^{sol}	2,400 (59) ^{sol}	13,000	82,000 (59) ^{sol}	13,000	25,000 (59) ^{sol}
	EC>16-35	2.5%	92,000 (21) ^{f,sol}	92,000 (21) ^{f,sol}	270,000 ^{f}	1,700,000 ^{f}	250,000 ^{f}	480,000 ^{f}
	EC>35-44	2.5%	92,000 (21) ^{f,sol}	92,000 (21) ^{f,sol}	270,000 ^{f}	1,700,000 ^{f}	250,000 ^{f}	480,000 ^{f}
	Aliphatic							
	EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}
	EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}
	EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}
	EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}
	EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}
	EC>16-35	6%	110,000^{f}	110,000^{f}	270,000 ^{f}	1,800,000^{f}	250,000 ^{f}	490,000 ^{f}
	EC>35-44	6%	110,000^{f}	110,000^{f}	270,000 ^{f}	1,800,000^{f}	250,000 ^{f}	490,000 ^{f}
	Aromatic							
	EC5-7(benzene as non-threshold)	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}
	EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
	EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}
	EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}
	EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000
	EC>16-21	1%	260 ^{f}	1,900 ^{f}	46 ^{f}	28,000 ^{f}	3,800 ^{f}	7,600 ^{f}
	EC>21-35	1%	1,100 ^{f}	1,900 ^{f}	370 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
	EC>35-44	1%	1,100 ^{f}	1,900 ^{f}	370^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
	Aromatic							
	EC5-7(benzene as non-threshold)	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}
	EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}
	EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}
	EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}
	EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000
	EC>16-21	2.5%	540 ^{f}	1,900 ^{f}	110 ^{f}	28,000 ^{f}	3,800 ^{f}	7,700 ^{f}
	EC>21-35	2.5%	1,500 ^{f}	1,900 ^{f}	820 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
	EC>35-44	2.5%	1,500 ^{f}	1,900 ^{f}	820 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
	Aromatic							
	EC5-7(benzene as non-threshold)	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}
	EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
	EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}
	EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000
	EC>12-16	6%	660	2,500	130	38,000	5,100	10,000
	EC>16-21	6%	930^{f}	1,900 ^{f}	260 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
	EC>21-35	6%	1,700 ^{f}	1,900 ^{f}	1,600 ^{f}	28,000 ^{f}	3,800 ^{f}	7,900 ^{f}
	EC>35-44	6%	1,700 ^{f}	1,900 ^{f}	1,600 ^{f}	28,000 ^{f}	3,800 ^{f}	7,900 ^{f}
	Aliphatic +Aromatic >EC44	1%	1,600 ^{f}	1,900 ^{f}	1,200 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
		2.5%	1,800 ^{f}	1,900 ^{f}	2,100 ^{f}	28,000 ^{f}	3,800 ^{f}	7,800 ^{f}
		6%	1,900 ^{f}	1,900 ^{f}	3,000 ^{f}	28,000 ^{f}	3,800 ^{f}	7,900 ^{f}

NOTES

$^{Sol\ /\ vap}$ = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil: Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	7.1E-03	9.2E-03	4.6E-03	0.67	29	21
		2.5%	1.1E-02	1.3E-02	8.3E-03	0.97	29	24
		6%	1.9E-02	2.3E-02	1.6E-02	1.7	29	28
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) vap
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) vap
		6%	39	40	240	3,000	140,000	100,000 (6,392) vap
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800
		2.5%	3.4	8.0	0.89	550	1,400	2,100
		6%	7.5	17	2.0	1,100	1,400	2,300
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500
		2.5%	2.8	3.5	1.9	250	1,400	1,800
		6%	6.4	8.2	4.4	560	1,400	2,100
	Tetrachloroethene (PCE)	1%	0.18	0.18	0.65	19	1,400	810 (424) sol
		2.5%	0.39	0.40	1.5	42	1,400	1,100 (951) sol
		6%	0.90	0.92	3.6	95	1,400	1,500
	Tetrachloromethane (carbon tetrachloride)	1%	2.6E-02	2.6E-02	0.45	2.9	890	190
		2.5%	5.6E-02	5.6E-02	1.0	6.3	920	270
		6%	0.13	0.13	2.4	14	950	400
	Trichloroethene (TCE)	1%	1.6E-02	1.7E-02	4.1E-02	1.2	120	70
		2.5%	3.4E-02	3.6E-02	9.1E-02	2.6	120	91
		6%	7.5E-02	8.0E-02	0.21	5.7	120	120
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600
		2.5%	1.7	2.1	0.83	170	2,500	2,800
		6%	3.4	4.2	1.7	350	2,500	3,100
	Chloroethene (vinyl chloride)	1%	6.4E-04	7.7E-04	5.5E-04	5.9E-02	3.5	4.8
		2.5%	8.7E-04	1.0E-03	1.0E-03	7.7E-02	3.5	5.0
		6%	1.4E-03	1.5E-03	1.8E-03	0.12	3.5	5.4
	2,4,6-Trinitritoluene (TNT)	1%	1.6	65	0.24	1,000	130	260
		2.5%	3.7	66	0.58	1,000	130	270
		6%	8.1	66	1.4	1,000	130	270
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) sol
		2.5%	250	13,000	38	210,000	26,000	51,000
		6%	540	13,000	85	210,000	27,000	53,000
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) vap
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) vap
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) vap
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30
		2.5%	6.6	7.4	6.1	170	18	31
		6%	7.1	7.5	9.8	170	18	31
	Dieldrin	1%	0.97	7.0	0.17	170	18	30
		2.5%	2.0	7.3	0.41	170	18	30
		6%	3.5	7.4	0.96	170	18	31
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300
		2.5%	7.8	620	1.2	9,400	1,200	2,400
		6%	17.4	620	2.7	9,400	1,200	2,400
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26
		6%	0.14	6.6	2.2E-02	140	16	27
	Endosulfanns (2 isomers)	1%	7.4	160 (3.0E-03) vap	1.2	5,600 (3.0E-03) vap	1,200	2,300
		2.5%	18	280 (7.0E-03) vap	2.9	7,400 (7.0E-03) vap	1,200	2,400
		6%	41	410 (1.6E-02) vap	6.8	8,400 (1.6E-02) vap	1,200	2,500
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15
		2.5%	0.2	3.8	3.2E-02	65	8.1	15
		6%	0.46	3.8	7.7E-02	65	8.1	16

NOTES

Sol / vap = solubility / vapour limit (potentially use if free product identified, although highly conservative).

All GAC are based on sandy loam soils with a pH 7.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
			Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}
		6%	2.4	2.4	32	290	14,000	2,900
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190
		6%	22	38	7.0	830	100	190
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^{g}	94	0.13 ^{g}	3,500	620	1,100
		2.5%	2.0	150	0.30	4,000	620	1,100
		6%	4.5	210	0.70	4,300	620	1,100
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110
		2.5%	0.52	29	8.0E-02	400	60	120
		6%	1.2	31	0.19	400	60	120
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300
		2.5%	0.29	0.29	10	22	11,000	1,900
		6%	0.62	0.62	23	47	11,000	2,700
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48
		2.5%	0.7	0.78	0.61	66	25	50
		6%	1.6	1.8	1.4	120	25	51
	Phenol	1%	280	750	66	760 ^{dir} (31,000)	760 ^{dir} (11,000)	760 ^{dir} (8,600)
		2.5%	550	1,300	140	1,500 ^{dir} (35,000)	1,500 ^{dir} (11,000)	1,500 ^{dir} (9,700)
		6%	1,100	2,300	280	3,200 ^{dir} (37,000)	3,200 ^{dir} (11,000)	3,200 ^{dir} (11,000)

NOTES

$^{Sol / vap}$ = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^{dir} = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

^{g} = derived based on 2,3,4,6-tetrachlorophenol.

Summary of Category 4 Screening Levels: 2015

Substance	Residential (with home-grown produce)	Residential (without home-grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37 mg/kg	40 mg/kg	49 mg/kg	640 mg/kg	79 mg/kg	170 mg/kg
Benzene	0.87 mg/kg	3.3 mg/kg	0.18 mg/kg	98 mg/kg	140 mg/kg	230 mg/kg
Benzo(a)pyrene	5.0 mg/kg	5.3 mg/kg	5.7 mg/kg	77 mg/kg	10 mg/kg	21 mg/kg
Cadmium	22 mg/kg	150 mg/kg	3.9 mg/kg	410 mg/kg	220 mg/kg	880 mg/kg
Chromium VI	21 mg/kg	21 mg/kg	170 mg/kg	49 mg/kg	21 mg/kg	250 mg/kg
Lead	200 mg/kg	310 mg/kg	80 mg/kg	2300 mg/kg	630 mg/kg	1300 mg/kg

Appendix E

M-BAT Model

INPUT DATA											RESULTS (Copper)				RESULTS (Zinc)				RESULTS (Mn)				RESULTS (Ni)			
ID	Location	Waterbody	Date	Measured Cu Concentration (dissolved) (µg l^{-1})	Measured Zn Concentration (dissolved) (µg l^{-1})	Measured Mn Concentration (dissolved) (µg l^{-1})	Measured Ni Concentration (dissolved) (µg l^{-1})	pH	DOC	Ca	Site-specific PNEC Dissolved Copper (µg l^{-1})	BioF	Bioavailable Copper Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Zinc (µg l^{-1})	BioF	Bioavailable Zinc Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Manganese (µg l^{-1})	BioF	Bioavailable Manganese Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Nickel (µg l^{-1})	BioF	Bioavailable Nickel Concentration (µg l^{-1})	Risk Characterisation Ratio
1	S101	River Irk	21/03/2018	12	20.6		9.6	9.1	49	82	1.00	1.00	12.00	12.00	89.49	0.12	2.51	0.23	123.00	1.00			4.00	1.00	9.60	2.40
2	S103	River Irk	21/03/2018	7.6	49.6		2.9	7.7	28	560	42.60	0.02	0.18	0.18	75.35	0.14	7.18	0.66	392.43	0.31			34.93	0.11	0.33	0.08
3	S105	River Irk	21/03/2018	5.8	10.6		1.6	7.9	18	120	22.33	0.04	0.26	0.26	75.83	0.14	1.52	0.14	266.45	0.46			28.49	0.14	0.22	0.06
4	S106	River Irk	21/03/2018	5.6	13.6		1.5	7.8	17	160	32.93	0.03	0.17	0.17	67.71	0.16	2.19	0.20	323.36	0.38			29.01	0.14	0.21	0.05
5	S108	River Irk	21/03/2018	8.5	7.5		1.1	10.8	13	73	7.37	0.14	1.15	1.15	59.89	0.18	1.37	0.13	123.00	1.00			4.00	1.00	1.10	0.28
6	S109	River Irk	21/03/2018	15	9.6		2.4	9.6	21	130	1.00	1.00	15.00	15.00	86.91	0.13	1.20	0.11	123.00	1.00			4.00	1.00	2.40	0.60
7	S111	River Irk	21/03/2018	49	24.6		4.5	9.4	22	420	1.00	1.00	49.00	49.00	85.74	0.13	3.13	0.29	123.00	1.00			4.00	1.00	4.50	1.13
8	S112	River Irk	21/03/2018	6.5	12.6		2.2	7.9	21	170	22.33	0.04	0.29	0.29	82.28	0.13	1.67	0.15	266.45	0.46			31.09	0.13	0.28	0.07
9	S114	River Irk	21/03/2018	6	11.6		2	8	19	140	11.55	0.09	0.52	0.52	82.22	0.13	1.54	0.14	219.55	0.56			27.68	0.14	0.29	0.07
10	S116	River Irk	21/03/2018	8.3	7		1.9	8	17	98	11.55	0.09	0.72	0.72	75.48	0.14	1.01	0.09	219.55	0.56			25.23	0.16	0.30	0.08
11	S118	River Irk	21/03/2018	7	3.9		2	8.7	20	76	1.00	1.00	7.00	7.00	89.91	0.12	0.47	0.04	123.00	1.00			5.66	0.71	1.41	0.35
12	S119	River Irk	26/03/2019	54	15.6		6.3	8.3	19	510	1.00	1.00	54.00	54.00	81.52	0.13	2.09	0.19	123.00	1.00			20.30	0.20	1.24	0.31
13	S121	River Irk	26/03/2019	8.5	13.6		2.3	7.9	17	450	22.33	0.04	0.38	0.38	70.50	0.15	2.10	0.19	266.45	0.46			27.19	0.15	0.34	0.08
14	S123	River Irk	26/03/2019	5.1	3		3	8.2	23	150	1.00	1.00	5.10	5.10	86.11	0.13	0.38	0.03	149.07	0.83			23.98	0.17	0.50	0.13
15	S125	River Irk	26/03/2019	2.8	5.4		1.1	8.4	8.7	250	15.53	0.06	0.18	0.18	42.03	0.26	1.40	0.13	123.00	1.00			9.15	0.44	0.48	0.12
16	S127	River Irk	26/03/2019	2.2	17.6		1.7	8.2	15	330	1.00	1.00	2.20	2.20	65.33	0.17	2.94	0.27	149.07	0.83			18.77	0.21	0.36	0.09

Appendix F

Haz Waste Online Output Sheets

HazWasteOnline™

Waste Classification Report

YFDE9-F8PG4-X2W8M

Job name

LKC 17 1257 Land at Blackley Mere Lower, Manchester

Description/Comments

Site is located south of Blackley New Road, north east of Bowker Bank Avenue, Blackley, Manchester.

National Grid Reference: 383980E 403010N.

Project

LKC 17 1257

Site

Land at Blackley Mere Lower, Manchester

Related Documents

#	Name	Description
1	HWOL-18-08085-20180416 174933.hwol	.hwol file used to create the Job

Waste Stream Template

Example waste stream template for contaminated soils

Classified by

Name:
Colin Crompton
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Report

Created by: Colin Crompton
Created date: 08 Apr 2019 09:52 GMT

Job summary

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#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
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Classification of sample: S101-596611-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S101-596611-21/03/2018-
Moisture content:
17%
(wet weight correction)

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: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17	mg/kg	1.32	18.63	mg/kg	0.00186 %	✓	
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.57	mg/kg	3.22	1.523	mg/kg	0.000152 %	✓	
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16	mg/kg	1.142	0.152	mg/kg	0.0000152 %	✓	
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21	mg/kg	1.462	25.475	mg/kg	0.00255 %	✓	
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21	mg/kg	1.126	19.624	mg/kg	0.00196 %	✓	
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32	mg/kg	1.56	41.429	mg/kg	0.00266 %	✓	
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<**LOD**
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	51.876	mg/kg	0.00519 %	✓	
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3				56	mg/kg	2.774	128.942	mg/kg	0.0129 %	✓	
12		TPH (C6 to C40) petroleum group			TPH		300	mg/kg		249	mg/kg	0.0249 %	✓	
13		confirm TPH has NOT arisen from diesel or petrol					☑							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				9.7	pH		9.7	pH	9.7 pH		
				PH									
21		naphthalene				0.15	mg/kg		0.125	mg/kg	0.0000124 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				0.64	mg/kg		0.531	mg/kg	0.0000531 %	✓	
			201-581-5	85-01-8									
26		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
27		fluoranthene				0.69	mg/kg		0.573	mg/kg	0.0000573 %	✓	
			205-912-4	206-44-0									
28		pyrene				0.63	mg/kg		0.523	mg/kg	0.0000523 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				0.2	mg/kg		0.166	mg/kg	0.0000166 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.24	mg/kg		0.199	mg/kg	0.0000199 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				0.28	mg/kg		0.232	mg/kg	0.0000232 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.11	mg/kg		0.0913	mg/kg	0.00000913 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.14	mg/kg		0.116	mg/kg	0.0000116 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	35.561	mg/kg	0.00356 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0573 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0249%)

Classification of sample: S102-596612-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S102-596612-21/03/2018-
Moisture content:
29%
(wet weight correction)

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: 29% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	12.187	mg/kg	0.00122 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.1	mg/kg	3.22	2.515	mg/kg	0.000251 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.42	mg/kg	1.142	0.341	mg/kg	0.0000341 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16	mg/kg	1.462	16.603	mg/kg	0.00166 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		34	mg/kg	1.126	27.179	mg/kg	0.00272 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	61	mg/kg	1.56	67.556	mg/kg	0.00433 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.17	mg/kg	1.353	0.163	mg/kg	0.0000163 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	38.037	mg/kg	0.0038 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<LOD
11	zinc { zinc chromate }	024-007-00-3				270	mg/kg	2.774	531.804	mg/kg	0.0532 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		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 %		<LOD
		006-007-00-5											
19		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
20		naphthalene				0.34	mg/kg		0.241	mg/kg	0.0000241 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.7	mg/kg		0.497	mg/kg	0.0000497 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.13	mg/kg		0.0923	mg/kg	0.00000923 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				1	mg/kg		0.71	mg/kg	0.000071 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.9	mg/kg		0.639	mg/kg	0.0000639 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.41	mg/kg		0.291	mg/kg	0.0000291 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.5	mg/kg		0.355	mg/kg	0.0000355 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.59	mg/kg		0.419	mg/kg	0.0000419 %	✓	
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.17	mg/kg		0.121	mg/kg	0.0000121 %	✓	
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.37	mg/kg		0.263	mg/kg	0.0000263 %	✓	
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.25	mg/kg		0.178	mg/kg	0.0000177 %	✓	
			205-893-2	193-39-5									
34		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									
35		benzo[ghi]perylene				0.28	mg/kg		0.199	mg/kg	0.0000199 %	✓	
			205-883-8	191-24-2									
36		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	26.617	mg/kg	0.00266 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
37		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0726 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S103-596613-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S103-596613-21/03/2018-
Moisture content:
16%
(wet weight correction)

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: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide }		24 mg/kg	1.32	26.618 mg/kg	0.00266 %	✓	
		033-003-00-0 / 215-481-4 / 1327-53-3							
2		boron { diboron trioxide; boric oxide }		1.6 mg/kg	3.22	4.328 mg/kg	0.000433 %	✓	
		005-008-00-8 / 215-125-8 / 1303-86-2							
3		cadmium { cadmium oxide }		0.23 mg/kg	1.142	0.221 mg/kg	0.0000221 %	✓	
		048-002-00-0 / 215-146-2 / 1306-19-0							
4		chromium in chromium(III) compounds { chromium(III) oxide }		19 mg/kg	1.462	23.326 mg/kg	0.00233 %	✓	
		/ 215-160-9 / 1308-38-9							
5		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
		024-001-00-0 / 215-607-8 / 1333-82-0							
6		copper { dicopper oxide; copper (I) oxide }		87 mg/kg	1.126	82.28 mg/kg	0.00823 %	✓	
		029-002-00-X / 215-270-7 / 1317-39-1							
7		lead { lead chromate }	1	320 mg/kg	1.56	419.278 mg/kg	0.0269 %	✓	
		082-004-00-2 / 231-846-0 / 7758-97-6							
8		mercury { mercury dichloride }		0.19 mg/kg	1.353	0.216 mg/kg	0.0000216 %	✓	
		080-010-00-X / 231-299-8 / 7487-94-7							
9		nickel { nickel chromate }		18 mg/kg	2.976	45.001 mg/kg	0.0045 %	✓	
		028-035-00-7 / 238-766-5 / 14721-18-7							
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
		034-002-00-8							
11		zinc { zinc chromate }		290 mg/kg	2.774	675.782 mg/kg	0.0676 %	✓	
		024-007-00-3							
12		TPH (C6 to C40) petroleum group		480 mg/kg		403.2 mg/kg	0.0403 %	✓	
		/ / TPH							
13		confirm TPH has NOT arisen from diesel or petrol		☑					
		/ /							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
21		naphthalene				0.89	mg/kg		0.748	mg/kg	0.0000748 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.21	mg/kg		0.176	mg/kg	0.0000176 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				0.45	mg/kg		0.378	mg/kg	0.0000378 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.72	mg/kg		0.605	mg/kg	0.0000605 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				6	mg/kg		5.04	mg/kg	0.000504 %	✓	
			201-581-5	85-01-8									
26		anthracene				1	mg/kg		0.84	mg/kg	0.000084 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				4.5	mg/kg		3.78	mg/kg	0.000378 %	✓	
			205-912-4	206-44-0									
28		pyrene				4.3	mg/kg		3.612	mg/kg	0.000361 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				1.6	mg/kg		1.344	mg/kg	0.000134 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.1	mg/kg		1.764	mg/kg	0.000176 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2	mg/kg		1.68	mg/kg	0.000168 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.74	mg/kg		0.622	mg/kg	0.0000622 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				1.6	mg/kg		1.344	mg/kg	0.000134 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.76	mg/kg		0.638	mg/kg	0.0000638 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.11	mg/kg		0.0924	mg/kg	0.00000924 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				0.95	mg/kg		0.798	mg/kg	0.0000798 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				23	mg/kg	1.785	34.49	mg/kg	0.00345 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0403%)

Classification of sample: S104-596614-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S104-596614-21/03/2018-
Moisture content:
18%
(wet weight correction)

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: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		61 mg/kg	1.32	66.043 mg/kg	0.0066 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.1 mg/kg	3.22	8.185 mg/kg	0.000818 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.24 mg/kg	1.142	0.225 mg/kg	0.0000225 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		42 mg/kg	1.462	50.336 mg/kg	0.00503 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		560 mg/kg	1.126	517.008 mg/kg	0.0517 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	560 mg/kg	1.56	716.267 mg/kg	0.0459 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15 mg/kg	1.353	0.166 mg/kg	0.0000166 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	70.776 mg/kg	0.00708 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7 mg/kg	2.554	1.466 mg/kg	0.000147 %	✓	
11	zinc { zinc chromate }	024-007-00-3				150 mg/kg	2.774	341.22 mg/kg	0.0341 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		290 mg/kg		237.8 mg/kg	0.0238 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
21		naphthalene				0.23	mg/kg		0.189	mg/kg	0.0000189 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.13	mg/kg		0.107	mg/kg	0.0000107 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				0.2	mg/kg		0.164	mg/kg	0.0000164 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				2.1	mg/kg		1.722	mg/kg	0.000172 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.33	mg/kg		0.271	mg/kg	0.0000271 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				2.7	mg/kg		2.214	mg/kg	0.000221 %	✓	
			205-912-4	206-44-0									
28		pyrene				2.5	mg/kg		2.05	mg/kg	0.000205 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				0.74	mg/kg		0.607	mg/kg	0.0000607 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				1.1	mg/kg		0.902	mg/kg	0.0000902 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				1.1	mg/kg		0.902	mg/kg	0.0000902 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.42	mg/kg		0.344	mg/kg	0.0000344 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.86	mg/kg		0.705	mg/kg	0.0000705 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.58	mg/kg		0.476	mg/kg	0.0000476 %	✓	
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				0.62	mg/kg		0.508	mg/kg	0.0000508 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				42	mg/kg	1.785	61.482	mg/kg	0.00615 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.184 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0238%)

Classification of sample: S105-596615-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S105-596615-21/03/2018-
Moisture content:
16%
(wet weight correction)

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: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25	mg/kg	1.32	27.727	mg/kg	0.00277 %	✓	
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7	mg/kg	3.22	1.893	mg/kg	0.000189 %	✓	
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.31	mg/kg	1.142	0.297	mg/kg	0.0000297 %	✓	
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29	mg/kg	1.462	35.603	mg/kg	0.00356 %	✓	
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52	mg/kg	1.126	49.179	mg/kg	0.00492 %	✓	
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120	mg/kg	1.56	157.229	mg/kg	0.0101 %	✓	
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.32	mg/kg	1.353	0.364	mg/kg	0.0000364 %	✓	
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28	mg/kg	2.976	70.002	mg/kg	0.007 %	✓	
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3				110	mg/kg	2.774	256.331	mg/kg	0.0256 %	✓	
12		TPH (C6 to C40) petroleum group			TPH		160	mg/kg		134.4	mg/kg	0.0134 %	✓	
13		confirm TPH has NOT arisen from diesel or petrol					☑							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		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 %		<**LOD**
20		pH			PH		8.3	pH		8.3	pH	8.3 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		0.66	mg/kg		0.554	mg/kg	0.0000554 %	✓	
22		acenaphthylene		205-917-1	208-96-8		0.19	mg/kg		0.16	mg/kg	0.000016 %	✓	
23		acenaphthene		201-469-6	83-32-9		1.2	mg/kg		1.008	mg/kg	0.000101 %	✓	
24		fluorene		201-695-5	86-73-7		1	mg/kg		0.84	mg/kg	0.000084 %	✓	
25		phenanthrene		201-581-5	85-01-8		7.6	mg/kg		6.384	mg/kg	0.000638 %	✓	
26		anthracene		204-371-1	120-12-7		1.8	mg/kg		1.512	mg/kg	0.000151 %	✓	
27		fluoranthene		205-912-4	206-44-0		11	mg/kg		9.24	mg/kg	0.000924 %	✓	
28		pyrene		204-927-3	129-00-0		9.3	mg/kg		7.812	mg/kg	0.000781 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		4.2	mg/kg		3.528	mg/kg	0.000353 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		5.1	mg/kg		4.284	mg/kg	0.000428 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		5.6	mg/kg		4.704	mg/kg	0.00047 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2.4	mg/kg		2.016	mg/kg	0.000202 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.5	mg/kg		3.78	mg/kg	0.000378 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		3.6	mg/kg		3.024	mg/kg	0.000302 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.57	mg/kg		0.479	mg/kg	0.0000479 %	✓	
36		benzo[ghi]perylene		205-883-8	191-24-2		3	mg/kg		2.52	mg/kg	0.000252 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	46.486	mg/kg	0.00465 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
											Total:	0.0787 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0134%)

Classification of sample: S106-596616-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S106-596616-21/03/2018-
Moisture content:
15%
(wet weight correction)

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: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	31.424 mg/kg	0.00314 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.61 mg/kg	3.22	1.67 mg/kg	0.000167 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.23 mg/kg	1.142	0.223 mg/kg	0.0000223 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32 mg/kg	1.462	39.754 mg/kg	0.00398 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53 mg/kg	1.126	50.721 mg/kg	0.00507 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120 mg/kg	1.56	159.101 mg/kg	0.0102 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.67 mg/kg	1.353	0.771 mg/kg	0.0000771 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	73.365 mg/kg	0.00734 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				100 mg/kg	2.774	235.802 mg/kg	0.0236 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		50 mg/kg		42.5 mg/kg	0.00425 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				9.2	pH		9.2	pH	9.2 pH		
				PH									
21		naphthalene				0.65	mg/kg		0.553	mg/kg	0.0000553 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.43	mg/kg		0.366	mg/kg	0.0000366 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				0.58	mg/kg		0.493	mg/kg	0.0000493 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.68	mg/kg		0.578	mg/kg	0.0000578 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				7	mg/kg		5.95	mg/kg	0.000595 %	✓	
			201-581-5	85-01-8									
26		anthracene				2	mg/kg		1.7	mg/kg	0.00017 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				9.3	mg/kg		7.905	mg/kg	0.000791 %	✓	
			205-912-4	206-44-0									
28		pyrene				7.9	mg/kg		6.715	mg/kg	0.000672 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				4.1	mg/kg		3.485	mg/kg	0.000349 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				4.4	mg/kg		3.74	mg/kg	0.000374 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				4.8	mg/kg		4.08	mg/kg	0.000408 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1.8	mg/kg		1.53	mg/kg	0.000153 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				3.9	mg/kg		3.315	mg/kg	0.000331 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				2.9	mg/kg		2.465	mg/kg	0.000246 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.49	mg/kg		0.417	mg/kg	0.0000416 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				2.5	mg/kg		2.125	mg/kg	0.000213 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				32	mg/kg	1.785	48.557	mg/kg	0.00486 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0685 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00425%)

Classification of sample: S107-596617-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S107-596617-21/03/2018-
Moisture content:
16%
(wet weight correction)

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: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	31.054 mg/kg	0.00311 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.65 mg/kg	3.22	1.758 mg/kg	0.000176 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.23 mg/kg	1.142	0.221 mg/kg	0.0000221 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.462	30.693 mg/kg	0.00307 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		63 mg/kg	1.126	59.582 mg/kg	0.00596 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	140 mg/kg	1.56	183.434 mg/kg	0.0118 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.45 mg/kg	1.353	0.512 mg/kg	0.0000512 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	62.502 mg/kg	0.00625 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				110 mg/kg	2.774	256.331 mg/kg	0.0256 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		35 mg/kg		29.4 mg/kg	0.00294 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		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 %		<**LOD**
20		pH			PH		8.3	pH		8.3	pH	8.3 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		0.68	mg/kg		0.571	mg/kg	0.0000571 %	✓	
22		acenaphthylene		205-917-1	208-96-8		0.11	mg/kg		0.0924	mg/kg	0.00000924 %	✓	
23		acenaphthene		201-469-6	83-32-9		1.1	mg/kg		0.924	mg/kg	0.0000924 %	✓	
24		fluorene		201-695-5	86-73-7		0.77	mg/kg		0.647	mg/kg	0.0000647 %	✓	
25		phenanthrene		201-581-5	85-01-8		7.4	mg/kg		6.216	mg/kg	0.000622 %	✓	
26		anthracene		204-371-1	120-12-7		1.5	mg/kg		1.26	mg/kg	0.000126 %	✓	
27		fluoranthene		205-912-4	206-44-0		9.1	mg/kg		7.644	mg/kg	0.000764 %	✓	
28		pyrene		204-927-3	129-00-0		8	mg/kg		6.72	mg/kg	0.000672 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.7	mg/kg		3.108	mg/kg	0.000311 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		3.8	mg/kg		3.192	mg/kg	0.000319 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		4.8	mg/kg		4.032	mg/kg	0.000403 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.8	mg/kg		1.512	mg/kg	0.000151 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3.9	mg/kg		3.276	mg/kg	0.000328 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		2.9	mg/kg		2.436	mg/kg	0.000244 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.45	mg/kg		0.378	mg/kg	0.0000378 %	✓	
36		benzo[ghi]perylene		205-883-8	191-24-2		2.4	mg/kg		2.016	mg/kg	0.000202 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28	mg/kg	1.785	41.988	mg/kg	0.0042 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
											Total:	0.0688 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00294%)

Classification of sample: S108-596618-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S108-596618-21/03/2018-
Moisture content:
19%
(wet weight correction)

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: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		71 mg/kg	1.32	75.932 mg/kg	0.00759 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.3 mg/kg	3.22	3.391 mg/kg	0.000339 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.41 mg/kg	1.142	0.379 mg/kg	0.0000379 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.462	33.148 mg/kg	0.00331 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		240 mg/kg	1.126	218.873 mg/kg	0.0219 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	490 mg/kg	1.56	619.091 mg/kg	0.0397 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.72 mg/kg	1.353	0.789 mg/kg	0.0000789 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		58 mg/kg	2.976	139.825 mg/kg	0.014 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
11	zinc { zinc chromate }	024-007-00-3				440 mg/kg	2.774	988.706 mg/kg	0.0989 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		160 mg/kg		129.6 mg/kg	0.013 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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	1.221	mg/kg	0.000122 %	✓	
		006-007-00-5											
20		pH				10.8	pH		10.8	pH	10.8 pH		
				PH									
21		naphthalene				0.97	mg/kg		0.786	mg/kg	0.0000786 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.31	mg/kg		0.251	mg/kg	0.0000251 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				1.9	mg/kg		1.539	mg/kg	0.000154 %	✓	
			201-469-6	83-32-9									
24		fluorene				1.4	mg/kg		1.134	mg/kg	0.000113 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				11	mg/kg		8.91	mg/kg	0.000891 %	✓	
			201-581-5	85-01-8									
26		anthracene				2.9	mg/kg		2.349	mg/kg	0.000235 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				17	mg/kg		13.77	mg/kg	0.00138 %	✓	
			205-912-4	206-44-0									
28		pyrene				15	mg/kg		12.15	mg/kg	0.00122 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				6.6	mg/kg		5.346	mg/kg	0.000535 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				8.5	mg/kg		6.885	mg/kg	0.000689 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				9.7	mg/kg		7.857	mg/kg	0.000786 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				4.1	mg/kg		3.321	mg/kg	0.000332 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				8.2	mg/kg		6.642	mg/kg	0.000664 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				6.2	mg/kg		5.022	mg/kg	0.000502 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.95	mg/kg		0.77	mg/kg	0.000077 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				4.6	mg/kg		3.726	mg/kg	0.000373 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				56	mg/kg	1.785	80.976	mg/kg	0.0081 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.216 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.013%)

Classification of sample: S109-596619-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S109-596619-21/03/2018-
Moisture content:
19%
(wet weight correction)

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: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		24 mg/kg	1.32	25.667 mg/kg	0.00257 %	✓	
2	boron { diboron trioxide; boric oxide } 005-008-00-8 / 215-125-8 / 1303-86-2		1 mg/kg	3.22	2.608 mg/kg	0.000261 %	✓	
3	cadmium { cadmium oxide } 048-002-00-0 / 215-146-2 / 1306-19-0		0.37 mg/kg	1.142	0.342 mg/kg	0.0000342 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		24 mg/kg	1.462	28.413 mg/kg	0.00284 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 / 215-607-8 / 1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X / 215-270-7 / 1317-39-1		59 mg/kg	1.126	53.806 mg/kg	0.00538 %	✓	
7	lead { lead chromate } 082-004-00-2 / 231-846-0 / 7758-97-6	1	160 mg/kg	1.56	202.152 mg/kg	0.013 %	✓	
8	mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		0.38 mg/kg	1.353	0.417 mg/kg	0.0000417 %	✓	
9	nickel { nickel chromate } 028-035-00-7 / 238-766-5 / 14721-18-7		25 mg/kg	2.976	60.269 mg/kg	0.00603 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
11	zinc { zinc chromate } 024-007-00-3		160 mg/kg	2.774	359.529 mg/kg	0.036 %	✓	
12	TPH (C6 to C40) petroleum group TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
14	benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
18		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 %		<**LOD**
19		pH			PH		9.6	pH		9.6	pH	9.6 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		1.4	mg/kg		1.134	mg/kg	0.000113 %	✓	
21		acenaphthylene		205-917-1	208-96-8		0.14	mg/kg		0.113	mg/kg	0.0000113 %	✓	
22		acenaphthene		201-469-6	83-32-9		1.1	mg/kg		0.891	mg/kg	0.0000891 %	✓	
23		fluorene		201-695-5	86-73-7		1.7	mg/kg		1.377	mg/kg	0.000138 %	✓	
24		phenanthrene		201-581-5	85-01-8		23	mg/kg		18.63	mg/kg	0.00186 %	✓	
25		anthracene		204-371-1	120-12-7		4.6	mg/kg		3.726	mg/kg	0.000373 %	✓	
26		fluoranthene		205-912-4	206-44-0		28	mg/kg		22.68	mg/kg	0.00227 %	✓	
27		pyrene		204-927-3	129-00-0		24	mg/kg		19.44	mg/kg	0.00194 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		8.2	mg/kg		6.642	mg/kg	0.000664 %	✓	
29		chrysene	601-048-00-0	205-923-4	218-01-9		9.6	mg/kg		7.776	mg/kg	0.000778 %	✓	
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		8.2	mg/kg		6.642	mg/kg	0.000664 %	✓	
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.2	mg/kg		2.592	mg/kg	0.000259 %	✓	
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		6.4	mg/kg		5.184	mg/kg	0.000518 %	✓	
33		indeno[123-cd]pyrene		205-893-2	193-39-5		4.7	mg/kg		3.807	mg/kg	0.000381 %	✓	
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.73	mg/kg		0.591	mg/kg	0.0000591 %	✓	
35		benzo[ghi]perylene		205-883-8	191-24-2		5.2	mg/kg		4.212	mg/kg	0.000421 %	✓	
36		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	41.934	mg/kg	0.00419 %	✓	
37		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
											Total:	0.083 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S110-596620-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S110-596620-21/03/2018-
Moisture content:
17%
(wet weight correction)

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: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		31 mg/kg	1.32	33.972 mg/kg	0.0034 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.85 mg/kg	3.22	2.272 mg/kg	0.000227 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.28 mg/kg	1.142	0.265 mg/kg	0.0000265 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		53 mg/kg	1.462	64.294 mg/kg	0.00643 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		66 mg/kg	1.126	61.676 mg/kg	0.00617 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	130 mg/kg	1.56	168.304 mg/kg	0.0108 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.5 mg/kg	1.353	1.685 mg/kg	0.000169 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		37 mg/kg	2.976	91.401 mg/kg	0.00914 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				110 mg/kg	2.774	253.28 mg/kg	0.0253 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		140 mg/kg		116.2 mg/kg	0.0116 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
21		naphthalene				4.2	mg/kg		3.486	mg/kg	0.000349 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.16	mg/kg		0.133	mg/kg	0.0000133 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				8.7	mg/kg		7.221	mg/kg	0.000722 %	✓	
			201-469-6	83-32-9									
24		fluorene				8	mg/kg		6.64	mg/kg	0.000664 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				77	mg/kg		63.91	mg/kg	0.00639 %	✓	
			201-581-5	85-01-8									
26		anthracene				18	mg/kg		14.94	mg/kg	0.00149 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				93	mg/kg		77.19	mg/kg	0.00772 %	✓	
			205-912-4	206-44-0									
28		pyrene				81	mg/kg		67.23	mg/kg	0.00672 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				28	mg/kg		23.24	mg/kg	0.00232 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				32	mg/kg		26.56	mg/kg	0.00266 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				29	mg/kg		24.07	mg/kg	0.00241 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				13	mg/kg		10.79	mg/kg	0.00108 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				24	mg/kg		19.92	mg/kg	0.00199 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				17	mg/kg		14.11	mg/kg	0.00141 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				2.6	mg/kg		2.158	mg/kg	0.000216 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				17	mg/kg		14.11	mg/kg	0.00141 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.785	45.933	mg/kg	0.00459 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.117 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0116%)

Classification of sample: S111-596621-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S111-596621-21/03/2018-
Moisture content:
12%
(wet weight correction)

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: 12% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide }		22 mg/kg	1.32	25.561 mg/kg	0.00256 %	✓	
		033-003-00-0 / 215-481-4 / 1327-53-3							
2		boron { diboron trioxide; boric oxide }		0.7 mg/kg	3.22	1.983 mg/kg	0.000198 %	✓	
		005-008-00-8 / 215-125-8 / 1303-86-2							
3		cadmium { cadmium oxide }		0.2 mg/kg	1.142	0.201 mg/kg	0.0000201 %	✓	
		048-002-00-0 / 215-146-2 / 1306-19-0							
4		chromium in chromium(III) compounds { chromium(III) oxide }		21 mg/kg	1.462	27.01 mg/kg	0.0027 %	✓	
		/ 215-160-9 / 1308-38-9							
5		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
		024-001-00-0 / 215-607-8 / 1333-82-0							
6		copper { dicopper oxide; copper (I) oxide }		55 mg/kg	1.126	54.493 mg/kg	0.00545 %	✓	
		029-002-00-X / 215-270-7 / 1317-39-1							
7		lead { lead chromate }	1	120 mg/kg	1.56	164.716 mg/kg	0.0106 %	✓	
		082-004-00-2 / 231-846-0 / 7758-97-6							
8		mercury { mercury dichloride }		0.23 mg/kg	1.353	0.274 mg/kg	0.0000274 %	✓	
		080-010-00-X / 231-299-8 / 7487-94-7							
9		nickel { nickel chromate }		21 mg/kg	2.976	55.001 mg/kg	0.0055 %	✓	
		028-035-00-7 / 238-766-5 / 14721-18-7							
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
		034-002-00-8 / /							
11		zinc { zinc chromate }		140 mg/kg	2.774	341.775 mg/kg	0.0342 %	✓	
		024-007-00-3 / /							
12		TPH (C6 to C40) petroleum group		84 mg/kg		73.92 mg/kg	0.00739 %	✓	
		/ / TPH							
13		confirm TPH has NOT arisen from diesel or petrol		☑					
		/ /							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				10.1	pH		10.1	pH	10.1 pH		
				PH									
21		naphthalene				0.16	mg/kg		0.141	mg/kg	0.0000141 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				3.5	mg/kg		3.08	mg/kg	0.000308 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.47	mg/kg		0.414	mg/kg	0.0000414 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.4	mg/kg		4.752	mg/kg	0.000475 %	✓	
			205-912-4	206-44-0									
28		pyrene				4.9	mg/kg		4.312	mg/kg	0.000431 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				1.5	mg/kg		1.32	mg/kg	0.000132 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.1	mg/kg		1.848	mg/kg	0.000185 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				1.6	mg/kg		1.408	mg/kg	0.000141 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.38	mg/kg		0.334	mg/kg	0.0000334 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.92	mg/kg		0.81	mg/kg	0.000081 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.56	mg/kg		0.493	mg/kg	0.0000493 %	✓	
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				0.86	mg/kg		0.757	mg/kg	0.0000757 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	40.845	mg/kg	0.00408 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0759 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00739%)

Classification of sample: S112-596622-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S112-596622-21/03/2018-
Moisture content:
16%
(wet weight correction)

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: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	23.291	mg/kg	0.00233 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.97	mg/kg	3.22	2.624	mg/kg	0.000262 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.23	mg/kg	1.142	0.221	mg/kg	0.0000221 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26	mg/kg	1.462	31.92	mg/kg	0.00319 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50	mg/kg	1.126	47.287	mg/kg	0.00473 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	130	mg/kg	1.56	170.332	mg/kg	0.0109 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.36	mg/kg	1.353	0.409	mg/kg	0.0000409 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30	mg/kg	2.976	75.002	mg/kg	0.0075 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				120	mg/kg	2.774	279.634	mg/kg	0.028 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		24	mg/kg		20.16	mg/kg	0.00202 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				9	pH		9	pH	9pH		
				PH									
21		naphthalene				0.14	mg/kg		0.118	mg/kg	0.0000118 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				4	mg/kg		3.36	mg/kg	0.000336 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.67	mg/kg		0.563	mg/kg	0.0000563 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				8.3	mg/kg		6.972	mg/kg	0.000697 %	✓	
			205-912-4	206-44-0									
28		pyrene				7.3	mg/kg		6.132	mg/kg	0.000613 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.8	mg/kg		2.352	mg/kg	0.000235 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				3.8	mg/kg		3.192	mg/kg	0.000319 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				3.4	mg/kg		2.856	mg/kg	0.000286 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1.3	mg/kg		1.092	mg/kg	0.000109 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2.2	mg/kg		1.848	mg/kg	0.000185 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				1.6	mg/kg		1.344	mg/kg	0.000134 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.18	mg/kg		0.151	mg/kg	0.0000151 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.8	mg/kg		1.512	mg/kg	0.000151 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				34	mg/kg	1.785	50.985	mg/kg	0.0051 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0685 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00202%)

Classification of sample: S113-596623-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S113-596623-21/03/2018-
Moisture content:
18%
(wet weight correction)

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: 18% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide }		18 mg/kg	1.32	19.488 mg/kg	0.00195 %	✓	
		033-003-00-0 / 215-481-4 / 1327-53-3							
2		boron { diboron trioxide; boric oxide }		0.72 mg/kg	3.22	1.901 mg/kg	0.00019 %	✓	
		005-008-00-8 / 215-125-8 / 1303-86-2							
3		cadmium { cadmium oxide }		0.24 mg/kg	1.142	0.225 mg/kg	0.0000225 %	✓	
		048-002-00-0 / 215-146-2 / 1306-19-0							
4		chromium in chromium(III) compounds { chromium(III) oxide }		32 mg/kg	1.462	38.351 mg/kg	0.00384 %	✓	
		/ 215-160-9 / 1308-38-9							
5		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
		024-001-00-0 / 215-607-8 / 1333-82-0							
6		copper { dicopper oxide; copper (I) oxide }		59 mg/kg	1.126	54.47 mg/kg	0.00545 %	✓	
		029-002-00-X / 215-270-7 / 1317-39-1							
7		lead { lead chromate }	1	100 mg/kg	1.56	127.905 mg/kg	0.0082 %	✓	
		082-004-00-2 / 231-846-0 / 7758-97-6							
8		mercury { mercury dichloride }		0.26 mg/kg	1.353	0.289 mg/kg	0.0000289 %	✓	
		080-010-00-X / 231-299-8 / 7487-94-7							
9		nickel { nickel chromate }		25 mg/kg	2.976	61.013 mg/kg	0.0061 %	✓	
		028-035-00-7 / 238-766-5 / 14721-18-7							
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
		034-002-00-8 / /							
11		zinc { zinc chromate }		100 mg/kg	2.774	227.48 mg/kg	0.0227 %	✓	
		024-007-00-3 / /							
12		TPH (C6 to C40) petroleum group		52 mg/kg		42.64 mg/kg	0.00426 %	✓	
		/ / TPH							
13		confirm TPH has NOT arisen from diesel or petrol		☑					
		/ /							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		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 %		<LOD
20		pH			PH		8.2	pH		8.2	pH	8.2 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		0.14	mg/kg		0.115	mg/kg	0.0000115 %	✓	
22		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		fluorene		201-695-5	86-73-7		0.18	mg/kg		0.148	mg/kg	0.0000148 %	✓	
25		phenanthrene		201-581-5	85-01-8		3.3	mg/kg		2.706	mg/kg	0.000271 %	✓	
26		anthracene		204-371-1	120-12-7		0.54	mg/kg		0.443	mg/kg	0.0000443 %	✓	
27		fluoranthene		205-912-4	206-44-0		5.7	mg/kg		4.674	mg/kg	0.000467 %	✓	
28		pyrene		204-927-3	129-00-0		5.2	mg/kg		4.264	mg/kg	0.000426 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.8	mg/kg		1.476	mg/kg	0.000148 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		2.4	mg/kg		1.968	mg/kg	0.000197 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.2	mg/kg		1.804	mg/kg	0.00018 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.64	mg/kg		0.525	mg/kg	0.0000525 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.5	mg/kg		1.23	mg/kg	0.000123 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		1	mg/kg		0.82	mg/kg	0.000082 %	✓	
35		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
36		benzo[ghi]perylene		205-883-8	191-24-2		1.1	mg/kg		0.902	mg/kg	0.0000902 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28	mg/kg	1.785	40.988	mg/kg	0.0041 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
											Total:	0.0603 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00426%)

Classification of sample: S114-596624-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S114-596624-21/03/2018-
Moisture content:
16%
(wet weight correction)

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: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	19.963 mg/kg	0.002 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.623 mg/kg	0.000162 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.26 mg/kg	1.142	0.249 mg/kg	0.0000249 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.462	29.465 mg/kg	0.00295 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46 mg/kg	1.126	43.504 mg/kg	0.00435 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	110 mg/kg	1.56	144.127 mg/kg	0.00924 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.24 mg/kg	1.353	0.273 mg/kg	0.0000273 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.976	65.002 mg/kg	0.0065 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				93 mg/kg	2.774	216.716 mg/kg	0.0217 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		260 mg/kg		218.4 mg/kg	0.0218 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
21		naphthalene				0.22	mg/kg		0.185	mg/kg	0.0000185 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.47	mg/kg		0.395	mg/kg	0.0000395 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.53	mg/kg		0.445	mg/kg	0.0000445 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				8.4	mg/kg		7.056	mg/kg	0.000706 %	✓	
			201-581-5	85-01-8									
26		anthracene				1.5	mg/kg		1.26	mg/kg	0.000126 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				12	mg/kg		10.08	mg/kg	0.00101 %	✓	
			205-912-4	206-44-0									
28		pyrene				10	mg/kg		8.4	mg/kg	0.00084 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				3.7	mg/kg		3.108	mg/kg	0.000311 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				4.4	mg/kg		3.696	mg/kg	0.00037 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				4.4	mg/kg		3.696	mg/kg	0.00037 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1.8	mg/kg		1.512	mg/kg	0.000151 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				3.3	mg/kg		2.772	mg/kg	0.000277 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				2.1	mg/kg		1.764	mg/kg	0.000176 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.26	mg/kg		0.218	mg/kg	0.0000218 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				2.2	mg/kg		1.848	mg/kg	0.000185 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	37.489	mg/kg	0.00375 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0784 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0218%)

Classification of sample: S115-596625-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S115-596625-21/03/2018-
Moisture content:
18%
(wet weight correction)

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: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		17 mg/kg	1.32	18.405 mg/kg	0.00184 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		0.49 mg/kg	3.22	1.294 mg/kg	0.000129 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		0.15 mg/kg	1.142	0.141 mg/kg	0.0000141 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }		30 mg/kg	1.462	35.954 mg/kg	0.0036 %	✓	
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		54 mg/kg	1.126	49.854 mg/kg	0.00499 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	140 mg/kg	1.56	179.067 mg/kg	0.0115 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		0.28 mg/kg	1.353	0.311 mg/kg	0.0000311 %	✓	
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		49 mg/kg	2.976	119.586 mg/kg	0.012 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8							
11	zinc { zinc chromate }		120 mg/kg	2.774	272.976 mg/kg	0.0273 %	✓	
	024-007-00-3							
12	TPH (C6 to C40) petroleum group		410 mg/kg		336.2 mg/kg	0.0336 %	✓	
	/ / TPH							
13	confirm TPH has NOT arisen from diesel or petrol		☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		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 %		<LOD
20		pH			PH		7.8	pH		7.8	pH	7.8 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		1	mg/kg		0.82	mg/kg	0.000082 %	✓	
22		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthene		201-469-6	83-32-9		1	mg/kg		0.82	mg/kg	0.000082 %	✓	
24		fluorene		201-695-5	86-73-7		1.3	mg/kg		1.066	mg/kg	0.000107 %	✓	
25		phenanthrene		201-581-5	85-01-8		10	mg/kg		8.2	mg/kg	0.00082 %	✓	
26		anthracene		204-371-1	120-12-7		2.1	mg/kg		1.722	mg/kg	0.000172 %	✓	
27		fluoranthene		205-912-4	206-44-0		14	mg/kg		11.48	mg/kg	0.00115 %	✓	
28		pyrene		204-927-3	129-00-0		12	mg/kg		9.84	mg/kg	0.000984 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		5.1	mg/kg		4.182	mg/kg	0.000418 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		6.1	mg/kg		5.002	mg/kg	0.0005 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		5.7	mg/kg		4.674	mg/kg	0.000467 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2.3	mg/kg		1.886	mg/kg	0.000189 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.3	mg/kg		3.526	mg/kg	0.000353 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		2.7	mg/kg		2.214	mg/kg	0.000221 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.36	mg/kg		0.295	mg/kg	0.0000295 %	✓	
36		benzo[ghi]perylene		205-883-8	191-24-2		3	mg/kg		2.46	mg/kg	0.000246 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		30	mg/kg	1.785	43.916	mg/kg	0.00439 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
											Total:	0.106 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0336%)

Classification of sample: S116-596626-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S116-596626-21/03/2018-
Moisture content:
20%
(wet weight correction)

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: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	15.844 mg/kg	0.00158 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.54 mg/kg	3.22	1.391 mg/kg	0.000139 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.15 mg/kg	1.142	0.137 mg/kg	0.0000137 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.462	35.077 mg/kg	0.00351 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		64 mg/kg	1.126	57.645 mg/kg	0.00576 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	94 mg/kg	1.56	117.298 mg/kg	0.00752 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28 mg/kg	1.353	0.303 mg/kg	0.0000303 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	50.001 mg/kg	0.005 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				96 mg/kg	2.774	213.054 mg/kg	0.0213 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		21 mg/kg		16.8 mg/kg	0.00168 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8	pH		8	pH	8pH		
				PH									
21		naphthalene				0.35	mg/kg		0.28	mg/kg	0.000028 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.43	mg/kg		0.344	mg/kg	0.0000344 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.52	mg/kg		0.416	mg/kg	0.0000416 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				4.3	mg/kg		3.44	mg/kg	0.000344 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.71	mg/kg		0.568	mg/kg	0.0000568 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.6	mg/kg		4.48	mg/kg	0.000448 %	✓	
			205-912-4	206-44-0									
28		pyrene				5.1	mg/kg		4.08	mg/kg	0.000408 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				1.8	mg/kg		1.44	mg/kg	0.000144 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.5	mg/kg		2	mg/kg	0.0002 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.2	mg/kg		1.76	mg/kg	0.000176 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.78	mg/kg		0.624	mg/kg	0.0000624 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				1.7	mg/kg		1.36	mg/kg	0.000136 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.98	mg/kg		0.784	mg/kg	0.0000784 %	✓	
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				30	mg/kg	1.785	42.844	mg/kg	0.00428 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00168%)

Classification of sample: S117-596627-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S117-596627-21/03/2018-
Moisture content:
15%
(wet weight correction)

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: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16	mg/kg	1.32	17.956	mg/kg	0.0018 %	✓	
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.67	mg/kg	3.22	1.834	mg/kg	0.000183 %	✓	
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.15	mg/kg	1.142	0.146	mg/kg	0.0000146 %	✓	
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22	mg/kg	1.462	27.331	mg/kg	0.00273 %	✓	
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39	mg/kg	1.126	37.323	mg/kg	0.00373 %	✓	
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	77	mg/kg	1.56	102.09	mg/kg	0.00655 %	✓	
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.16	mg/kg	1.353	0.184	mg/kg	0.0000184 %	✓	
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	60.716	mg/kg	0.00607 %	✓	
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3				68	mg/kg	2.774	160.346	mg/kg	0.016 %	✓	
12		TPH (C6 to C40) petroleum group			TPH		330	mg/kg		280.5	mg/kg	0.0281 %	✓	
13		confirm TPH has NOT arisen from diesel or petrol					☑							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				9.1	pH		9.1	pH	9.1 pH		
				PH									
21		naphthalene				0.17	mg/kg		0.145	mg/kg	0.0000145 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				3.1	mg/kg		2.635	mg/kg	0.000263 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.7	mg/kg		0.595	mg/kg	0.0000595 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.5	mg/kg		4.675	mg/kg	0.000467 %	✓	
			205-912-4	206-44-0									
28		pyrene				4.5	mg/kg		3.825	mg/kg	0.000383 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				1.8	mg/kg		1.53	mg/kg	0.000153 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.3	mg/kg		1.955	mg/kg	0.000195 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.1	mg/kg		1.785	mg/kg	0.000179 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.84	mg/kg		0.714	mg/kg	0.0000714 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.9	mg/kg		0.765	mg/kg	0.0000765 %	✓	
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				0.98	mg/kg		0.833	mg/kg	0.0000833 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	36.418	mg/kg	0.00364 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0722 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0281%)

Classification of sample: S118-596628-21/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S118-596628-21/03/2018-
Moisture content:
20%
(wet weight correction)

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: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		29 mg/kg	1.32	30.632 mg/kg	0.00306 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.57 mg/kg	3.22	1.468 mg/kg	0.000147 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.25 mg/kg	1.142	0.228 mg/kg	0.0000228 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.462	38.585 mg/kg	0.00386 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120 mg/kg	1.126	108.085 mg/kg	0.0108 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	150 mg/kg	1.56	187.178 mg/kg	0.012 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.36 mg/kg	1.353	0.39 mg/kg	0.000039 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		42 mg/kg	2.976	100.002 mg/kg	0.01 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				160 mg/kg	2.774	355.091 mg/kg	0.0355 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		24 mg/kg		19.2 mg/kg	0.00192 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
21		naphthalene				0.48	mg/kg		0.384	mg/kg	0.0000384 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.42	mg/kg		0.336	mg/kg	0.0000336 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				0.86	mg/kg		0.688	mg/kg	0.0000688 %	✓	
			201-469-6	83-32-9									
24		fluorene				1.2	mg/kg		0.96	mg/kg	0.000096 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				18	mg/kg		14.4	mg/kg	0.00144 %	✓	
			201-581-5	85-01-8									
26		anthracene				4.7	mg/kg		3.76	mg/kg	0.000376 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				36	mg/kg		28.8	mg/kg	0.00288 %	✓	
			205-912-4	206-44-0									
28		pyrene				31	mg/kg		24.8	mg/kg	0.00248 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				15	mg/kg		12	mg/kg	0.0012 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				15	mg/kg		12	mg/kg	0.0012 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				17	mg/kg		13.6	mg/kg	0.00136 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				7	mg/kg		5.6	mg/kg	0.00056 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				15	mg/kg		12	mg/kg	0.0012 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				9.9	mg/kg		7.92	mg/kg	0.000792 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				1.9	mg/kg		1.52	mg/kg	0.000152 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				9	mg/kg		7.2	mg/kg	0.00072 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				38	mg/kg	1.785	54.27	mg/kg	0.00543 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0986 %		

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
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 The absence of a free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicates that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00192%)

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

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: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

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: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **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 Chronic 1 H410 , Aquatic Acute 1 H400

- **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: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **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

- **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 Chronic 1 H410 , Aquatic Acute 1 H400

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

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}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

vanadium {divanadium pentaoxide; vanadium pentoxide}

worst case/most likely scenario

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2019.94.3835.7831 (04 Apr 2019)
HazWasteOnline Database: 2019.94.3835.7831 (04 Apr 2019)

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 Wastes 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
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

HazWasteOnline™

Waste Classification Report

33EJW-MMB8G-QSLD2

Job name

LKC 17 1257 S119-S131

Description/Comments

Site is located south of Blackley New Road, north east of Bowker Bank Avenue, Blackley, Manchester.

National Grid Reference: 383980E 403010N.

Project

LKC 17 1257 S119-S131

Site

Land at Blackley Mere Lower, Manchester S119-S131

Related Documents

#	Name	Description
1	HWOL-18-08588-20180413 113535.hwol	.hwol file used to create the Job

Waste Stream Template

Example waste stream template for contaminated soils

Classified by

Name:
Colin Crompton
Date:
08 Apr 2019 10:13 GMT
Telephone:
0161 763 7200

Company:
LK Group
Unit 29, Eton Business Park
Eton Hill Rd, Radcliffe
Manchester
M26 2ZS

Report

Created by: Colin Crompton
Created date: 08 Apr 2019 10:13 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	S119-598925-26/03/2018-		Non Hazardous		3
2	S120-598926-26/03/2018-		Non Hazardous		6
3	S121-598927-26/03/2018-		Non Hazardous		12
4	S122-598928-26/03/2018-		Non Hazardous		15
5	S123-598929-26/03/2018-		Non Hazardous		18
6	S124-598930-26/03/2018-		Non Hazardous		21
7	S125-598931-26/03/2018-		Non Hazardous		24
8	S126-598932-26/03/2018-		Non Hazardous		27
9	S127-598933-26/03/2018-		Non Hazardous		30

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
10	S128-598934-26/03/2018-		Non Hazardous		33
11	S129-598935-26/03/2018-		Non Hazardous		36
12	S130-598936-26/03/2018-		Non Hazardous		39
13	S131-598937-26/03/2018-		Non Hazardous		42

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	45
Appendix B: Rationale for selection of metal species	49
Appendix C: Version	50

Classification of sample: S119-598925-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S119-598925-26/03/2018-
Moisture content:
13%
(wet weight correction)

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: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	32.163 mg/kg	0.00322 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.1 mg/kg	3.22	3.081 mg/kg	0.000308 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.24 mg/kg	1.142	0.239 mg/kg	0.0000239 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.462	38.147 mg/kg	0.00381 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120 mg/kg	1.126	117.543 mg/kg	0.0118 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	160 mg/kg	1.56	217.126 mg/kg	0.0139 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.47 mg/kg	1.353	0.553 mg/kg	0.0000553 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32 mg/kg	2.976	82.859 mg/kg	0.00829 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				150 mg/kg	2.774	362.026 mg/kg	0.0362 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		340 mg/kg		295.8 mg/kg	0.0296 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		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 %		<**LOD**
20		pH			PH		8.3	pH		8.3	pH	8.3 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		1.5	mg/kg		1.305	mg/kg	0.000131 %	✓	
22		acenaphthylene		205-917-1	208-96-8		0.15	mg/kg		0.13	mg/kg	0.000013 %	✓	
23		acenaphthene		201-469-6	83-32-9		4.4	mg/kg		3.828	mg/kg	0.000383 %	✓	
24		fluorene		201-695-5	86-73-7		2.8	mg/kg		2.436	mg/kg	0.000244 %	✓	
25		phenanthrene		201-581-5	85-01-8		17	mg/kg		14.79	mg/kg	0.00148 %	✓	
26		anthracene		204-371-1	120-12-7		4.5	mg/kg		3.915	mg/kg	0.000392 %	✓	
27		fluoranthene		205-912-4	206-44-0		20	mg/kg		17.4	mg/kg	0.00174 %	✓	
28		pyrene		204-927-3	129-00-0		17	mg/kg		14.79	mg/kg	0.00148 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		8.1	mg/kg		7.047	mg/kg	0.000705 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		8.9	mg/kg		7.743	mg/kg	0.000774 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		9.1	mg/kg		7.917	mg/kg	0.000792 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.2	mg/kg		2.784	mg/kg	0.000278 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		7.8	mg/kg		6.786	mg/kg	0.000679 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		5.5	mg/kg		4.785	mg/kg	0.000479 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.85	mg/kg		0.74	mg/kg	0.000074 %	✓	
36		benzo[ghi]perylene		205-883-8	191-24-2		4.8	mg/kg		4.176	mg/kg	0.000418 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		30	mg/kg	1.785	46.593	mg/kg	0.00466 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
											Total:	0.123 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0296%)

Classification of sample: S120-598926-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S120-598926-26/03/2018-
Moisture content:
14%
(wet weight correction)

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: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	14.761 mg/kg	0.00148 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.81 mg/kg	3.22	2.243 mg/kg	0.000224 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16 mg/kg	1.142	0.157 mg/kg	0.0000157 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.462	25.139 mg/kg	0.00251 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	30.984 mg/kg	0.0031 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	71 mg/kg	1.56	95.242 mg/kg	0.00611 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15 mg/kg	1.353	0.175 mg/kg	0.0000175 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	46.073 mg/kg	0.00461 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				90 mg/kg	2.774	214.719 mg/kg	0.0215 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		110 mg/kg		94.6 mg/kg	0.00946 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
21		naphthalene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				3.5	mg/kg		3.01	mg/kg	0.000301 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.92	mg/kg		0.791	mg/kg	0.0000791 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				4.3	mg/kg		3.698	mg/kg	0.00037 %	✓	
			205-912-4	206-44-0									
28		pyrene				4.2	mg/kg		3.612	mg/kg	0.000361 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.2	mg/kg		1.892	mg/kg	0.000189 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.1	mg/kg		1.806	mg/kg	0.000181 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.7	mg/kg		2.322	mg/kg	0.000232 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1	mg/kg		0.86	mg/kg	0.000086 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		1.72	mg/kg	0.000172 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.91	mg/kg		0.783	mg/kg	0.0000783 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.2	mg/kg		1.032	mg/kg	0.000103 %	✓	
			205-883-8	191-24-2									
37		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
38		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
39		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
40		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
41		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
42		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
43		hexachlorobenzene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
44		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	41.452	mg/kg	0.00415 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
45		bromochloromethane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
49		dichlorodifluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-893-9	75-71-8									
50		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
51		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
52		bromodichloromethane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
			200-856-7	75-27-4									
53		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
54		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
55		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
56		1,3-dichloropropane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			205-531-3	142-28-9									
57		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									
58		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
59		1,2-dibromoethane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,1,2-tetrachloroethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			211-135-1	630-20-6									
62		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
63		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
64		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
65		1,2,3-trichloropropane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
66		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
67		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
68		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
69		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
70		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
71		bromomethane; methylbromide				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
72	●	4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
73		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
74	●	n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
75		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
76		1,2-dibromo-3-chloropropane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
77		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
78	●	hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
79	●	1,2,3-trichlorobenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			201-757-1	87-61-6									
80		carbon disulphide				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		006-003-00-3	200-843-6	75-15-0									
81		chloroethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
82	●	trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
83		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
84	●	hexachloroethane				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			200-666-4	67-72-1									
85		nitrosodipropylamine				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		612-098-00-8	210-698-0	621-64-7									
86		nitrobenzene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
87		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
88	●	2-nitrophenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			201-857-5	88-75-5									
89		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
90	●	bis(2-chloroethoxy)methane				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			203-920-2	111-91-1									
91		2,4-dichlorophenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
92		dimethylnitrosoamine; N-nitrosodimethylamine				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		612-077-00-3	200-549-8	62-75-9									
93		4-chloroaniline				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
94		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
95	●	2-methyl naphthalene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			202-078-3	91-57-6									
96		hexachlorocyclopentadiene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		602-078-00-7	201-029-3	77-47-4									
97		2,4,6-trichlorophenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-018-00-5	201-795-9	88-06-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
98		2,4,5-trichlorophenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
99		2-chloronaphthalene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			202-079-9	91-58-7									
100		dimethyl phthalate				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			205-011-6	131-11-3									
101		2,6-dinitrotoluene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
102		dibenzofuran				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			205-071-3	132-64-9									
103		4-chlorophenylphenylether				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			230-281-7	7005-72-3									
104		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
105		diethyl phthalate				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			201-550-6	84-66-2									
106		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
107		DNOC (ISO); 4,6-dinitro-o-cresol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		609-020-00-X	208-601-1	534-52-1									
108		azobenzene				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
109		4-bromophenylphenylether				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			202-952-4	101-55-3									
110		pentachlorophenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-002-00-8	201-778-6	87-86-5									
111		carbazole				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			201-696-0	86-74-8									
112		dibutyl phthalate; DBP				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
113		bis(2-chloroethyl) ether				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
114		BBP; benzyl butyl phthalate				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
115		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
116		di-n-octyl phthalate				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
			204-214-7	117-84-0									
117		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
118		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
119		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
120		cumene; [1] propylbenzene [2]											
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
121		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]											
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
122		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]											
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
										Total:	0.0588 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00946%)

Classification of sample: S121-598927-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S121-598927-26/03/2018-
Moisture content:
13%
(wet weight correction)

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: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	28.717 mg/kg	0.00287 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.63 mg/kg	3.22	1.765 mg/kg	0.000176 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.28 mg/kg	1.142	0.278 mg/kg	0.0000278 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		40 mg/kg	1.462	50.862 mg/kg	0.00509 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		92 mg/kg	1.126	90.116 mg/kg	0.00901 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120 mg/kg	1.56	162.845 mg/kg	0.0104 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.25 mg/kg	1.353	0.294 mg/kg	0.0000294 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.976	72.502 mg/kg	0.00725 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				91 mg/kg	2.774	219.629 mg/kg	0.022 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		140 mg/kg		121.8 mg/kg	0.0122 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				9.2	pH		9.2	pH	9.2 pH		
				PH									
21		naphthalene				0.78	mg/kg		0.679	mg/kg	0.0000679 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				1.7	mg/kg		1.479	mg/kg	0.000148 %	✓	
			201-469-6	83-32-9									
24		fluorene				1.6	mg/kg		1.392	mg/kg	0.000139 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				13	mg/kg		11.31	mg/kg	0.00113 %	✓	
			201-581-5	85-01-8									
26		anthracene				2.8	mg/kg		2.436	mg/kg	0.000244 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				16	mg/kg		13.92	mg/kg	0.00139 %	✓	
			205-912-4	206-44-0									
28		pyrene				14	mg/kg		12.18	mg/kg	0.00122 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				5.6	mg/kg		4.872	mg/kg	0.000487 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				6.5	mg/kg		5.655	mg/kg	0.000566 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				6.8	mg/kg		5.916	mg/kg	0.000592 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				2.6	mg/kg		2.262	mg/kg	0.000226 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				5.5	mg/kg		4.785	mg/kg	0.000479 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				3.4	mg/kg		2.958	mg/kg	0.000296 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.64	mg/kg		0.557	mg/kg	0.0000557 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				3.3	mg/kg		2.871	mg/kg	0.000287 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	40.381	mg/kg	0.00404 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0817 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0122%)

Classification of sample: S122-598928-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S122-598928-26/03/2018-
Moisture content:
14%
(wet weight correction)

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: 14% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide }		18 mg/kg	1.32	20.439 mg/kg	0.00204 %	✓	
		033-003-00-0 / 215-481-4 / 1327-53-3							
2		boron { diboron trioxide; boric oxide }		0.58 mg/kg	3.22	1.606 mg/kg	0.000161 %	✓	
		005-008-00-8 / 215-125-8 / 1303-86-2							
3		cadmium { cadmium oxide }		0.21 mg/kg	1.142	0.206 mg/kg	0.0000206 %	✓	
		048-002-00-0 / 215-146-2 / 1306-19-0							
4		chromium in chromium(III) compounds { chromium(III) oxide }		29 mg/kg	1.462	36.451 mg/kg	0.00365 %	✓	
		/ 215-160-9 / 1308-38-9							
5		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
		024-001-00-0 / 215-607-8 / 1333-82-0							
6		copper { dicopper oxide; copper (I) oxide }		35 mg/kg	1.126	33.889 mg/kg	0.00339 %	✓	
		029-002-00-X / 215-270-7 / 1317-39-1							
7		lead { lead chromate }	1	49 mg/kg	1.56	65.731 mg/kg	0.00421 %	✓	
		082-004-00-2 / 231-846-0 / 7758-97-6							
8		mercury { mercury dichloride }		0.12 mg/kg	1.353	0.14 mg/kg	0.000014 %	✓	
		080-010-00-X / 231-299-8 / 7487-94-7							
9		nickel { nickel chromate }		33 mg/kg	2.976	84.466 mg/kg	0.00845 %	✓	
		028-035-00-7 / 238-766-5 / 14721-18-7							
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
		034-002-00-8							
11		zinc { zinc chromate }		65 mg/kg	2.774	155.075 mg/kg	0.0155 %	✓	
		024-007-00-3							
12		TPH (C6 to C40) petroleum group		26 mg/kg		22.36 mg/kg	0.00224 %	✓	
		/ / TPH							
13		confirm TPH has NOT arisen from diesel or petrol		☑					
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
21		naphthalene				1.9	mg/kg		1.634	mg/kg	0.000163 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.26	mg/kg		0.224	mg/kg	0.0000224 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				0.91	mg/kg		0.783	mg/kg	0.0000783 %	✓	
			201-469-6	83-32-9									
24		fluorene				1.1	mg/kg		0.946	mg/kg	0.0000946 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				7.3	mg/kg		6.278	mg/kg	0.000628 %	✓	
			201-581-5	85-01-8									
26		anthracene				2.6	mg/kg		2.236	mg/kg	0.000224 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				6.4	mg/kg		5.504	mg/kg	0.00055 %	✓	
			205-912-4	206-44-0									
28		pyrene				6.1	mg/kg		5.246	mg/kg	0.000525 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.3	mg/kg		1.978	mg/kg	0.000198 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.8	mg/kg		2.408	mg/kg	0.000241 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.5	mg/kg		2.15	mg/kg	0.000215 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.83	mg/kg		0.714	mg/kg	0.0000714 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		1.72	mg/kg	0.000172 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				1.2	mg/kg		1.032	mg/kg	0.000103 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.3	mg/kg		1.118	mg/kg	0.000112 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	42.987	mg/kg	0.0043 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0486 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00224%)

Classification of sample: S123-598929-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S123-598929-26/03/2018-
Moisture content:
12%
(wet weight correction)

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: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	20.914	mg/kg	0.00209 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.79	mg/kg	3.22	2.238	mg/kg	0.000224 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.37	mg/kg	1.142	0.372	mg/kg	0.0000372 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22	mg/kg	1.462	28.296	mg/kg	0.00283 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40	mg/kg	1.126	39.631	mg/kg	0.00396 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	78	mg/kg	1.56	107.066	mg/kg	0.00686 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28	mg/kg	1.353	0.333	mg/kg	0.0000333 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	57.62	mg/kg	0.00576 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				78	mg/kg	2.774	190.417	mg/kg	0.019 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		110	mg/kg		96.8	mg/kg	0.00968 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
21		naphthalene				0.75	mg/kg		0.66	mg/kg	0.000066 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.58	mg/kg		0.51	mg/kg	0.000051 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.43	mg/kg		0.378	mg/kg	0.0000378 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				4.4	mg/kg		3.872	mg/kg	0.000387 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.86	mg/kg		0.757	mg/kg	0.0000757 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.7	mg/kg		5.016	mg/kg	0.000502 %	✓	
			205-912-4	206-44-0									
28		pyrene				5.5	mg/kg		4.84	mg/kg	0.000484 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.2	mg/kg		1.936	mg/kg	0.000194 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.7	mg/kg		2.376	mg/kg	0.000238 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.9	mg/kg		2.552	mg/kg	0.000255 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1.1	mg/kg		0.968	mg/kg	0.0000968 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2.1	mg/kg		1.848	mg/kg	0.000185 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				1.3	mg/kg		1.144	mg/kg	0.000114 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.17	mg/kg		0.15	mg/kg	0.000015 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.6	mg/kg		1.408	mg/kg	0.000141 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				23	mg/kg	1.785	36.132	mg/kg	0.00361 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0582 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00968%)

Classification of sample: S124-598930-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S124-598930-26/03/2018-
Moisture content:
13%
(wet weight correction)

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: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	13.784	mg/kg	0.00138 %	✓	
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.56	mg/kg	3.22	1.569	mg/kg	0.000157 %	✓	
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.14	mg/kg	1.142	0.139	mg/kg	0.0000139 %	✓	
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20	mg/kg	1.462	25.431	mg/kg	0.00254 %	✓	
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	28.406	mg/kg	0.00284 %	✓	
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	55	mg/kg	1.56	74.637	mg/kg	0.00479 %	✓	
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.2	mg/kg	1.353	0.236	mg/kg	0.0000236 %	✓	
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	56.966	mg/kg	0.0057 %	✓	
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3				76	mg/kg	2.774	183.427	mg/kg	0.0183 %	✓	
12		TPH (C6 to C40) petroleum group			TPH		69	mg/kg		60.03	mg/kg	0.006 %	✓	
13		confirm TPH has NOT arisen from diesel or petrol					☑							
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		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 %		<LOD
20		pH			PH		8.5	pH		8.5	pH	8.5 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		0.21	mg/kg		0.183	mg/kg	0.0000183 %	✓	
22		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthene		201-469-6	83-32-9		0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
24		fluorene		201-695-5	86-73-7		0.16	mg/kg		0.139	mg/kg	0.0000139 %	✓	
25		phenanthrene		201-581-5	85-01-8		2.1	mg/kg		1.827	mg/kg	0.000183 %	✓	
26		anthracene		204-371-1	120-12-7		0.41	mg/kg		0.357	mg/kg	0.0000357 %	✓	
27		fluoranthene		205-912-4	206-44-0		3	mg/kg		2.61	mg/kg	0.000261 %	✓	
28		pyrene		204-927-3	129-00-0		2.9	mg/kg		2.523	mg/kg	0.000252 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2	mg/kg		1.044	mg/kg	0.000104 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		1.4	mg/kg		1.218	mg/kg	0.000122 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.6	mg/kg		1.392	mg/kg	0.000139 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.43	mg/kg		0.374	mg/kg	0.0000374 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.1	mg/kg		0.957	mg/kg	0.0000957 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		0.72	mg/kg		0.626	mg/kg	0.0000626 %	✓	
35		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
36		benzo[ghi]perylene		205-883-8	191-24-2		0.83	mg/kg		0.722	mg/kg	0.0000722 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22	mg/kg	1.785	34.168	mg/kg	0.00342 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
											Total:	0.0479 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.006%)

Classification of sample: S125-598931-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S125-598931-26/03/2018-
Moisture content:
12%
(wet weight correction)

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: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		46 mg/kg	1.32	53.447 mg/kg	0.00534 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.1 mg/kg	3.22	3.117 mg/kg	0.000312 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.26 mg/kg	1.142	0.261 mg/kg	0.0000261 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.462	30.868 mg/kg	0.00309 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		70 mg/kg	1.126	69.355 mg/kg	0.00694 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	190 mg/kg	1.56	260.801 mg/kg	0.0167 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.55 mg/kg	1.353	0.655 mg/kg	0.0000655 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.976	70.716 mg/kg	0.00707 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				150 mg/kg	2.774	366.187 mg/kg	0.0366 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		770 mg/kg		677.6 mg/kg	0.0678 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
21		naphthalene				7.4	mg/kg		6.512	mg/kg	0.000651 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				0.94	mg/kg		0.827	mg/kg	0.0000827 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				7.6	mg/kg		6.688	mg/kg	0.000669 %	✓	
			201-469-6	83-32-9									
24		fluorene				5.8	mg/kg		5.104	mg/kg	0.00051 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				45	mg/kg		39.6	mg/kg	0.00396 %	✓	
			201-581-5	85-01-8									
26		anthracene				9.5	mg/kg		8.36	mg/kg	0.000836 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				48	mg/kg		42.24	mg/kg	0.00422 %	✓	
			205-912-4	206-44-0									
28		pyrene				49	mg/kg		43.12	mg/kg	0.00431 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				20	mg/kg		17.6	mg/kg	0.00176 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				23	mg/kg		20.24	mg/kg	0.00202 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				23	mg/kg		20.24	mg/kg	0.00202 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				8.2	mg/kg		7.216	mg/kg	0.000722 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				20	mg/kg		17.6	mg/kg	0.00176 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				10	mg/kg		8.8	mg/kg	0.00088 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				2.4	mg/kg		2.112	mg/kg	0.000211 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				10	mg/kg		8.8	mg/kg	0.00088 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				29	mg/kg	1.785	45.558	mg/kg	0.00456 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.175 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0678%)

Classification of sample: S126-598932-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S126-598932-26/03/2018-
Moisture content:
11%
(wet weight correction)

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: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		34 mg/kg	1.32	39.953 mg/kg	0.004 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.93 mg/kg	3.22	2.665 mg/kg	0.000267 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.24 mg/kg	1.142	0.244 mg/kg	0.0000244 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.462	28.617 mg/kg	0.00286 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		79 mg/kg	1.126	79.161 mg/kg	0.00792 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120 mg/kg	1.56	166.588 mg/kg	0.0107 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		6.4 mg/kg	1.353	7.709 mg/kg	0.000771 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	76.817 mg/kg	0.00768 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
11	zinc { zinc chromate }	024-007-00-3				120 mg/kg	2.774	296.279 mg/kg	0.0296 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		890 mg/kg		792.1 mg/kg	0.0792 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.0013	mg/kg		0.0011	mg/kg	0.000000116 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				0.0022	mg/kg		0.0019	mg/kg	0.000000196 %	✓	
		601-023-00-4	202-849-4	100-41-4									
18		xylene				0.0049	mg/kg		0.0043	mg/kg	0.000000436 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
21		naphthalene				16	mg/kg		14.24	mg/kg	0.00142 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				2.5	mg/kg		2.225	mg/kg	0.000223 %	✓	
			205-917-1	208-96-8									
23		acenaphthene				18	mg/kg		16.02	mg/kg	0.0016 %	✓	
			201-469-6	83-32-9									
24		fluorene				17	mg/kg		15.13	mg/kg	0.00151 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				120	mg/kg		106.8	mg/kg	0.0107 %	✓	
			201-581-5	85-01-8									
26		anthracene				27	mg/kg		24.03	mg/kg	0.0024 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				120	mg/kg		106.8	mg/kg	0.0107 %	✓	
			205-912-4	206-44-0									
28		pyrene				130	mg/kg		115.7	mg/kg	0.0116 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				49	mg/kg		43.61	mg/kg	0.00436 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				57	mg/kg		50.73	mg/kg	0.00507 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				51	mg/kg		45.39	mg/kg	0.00454 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				19	mg/kg		16.91	mg/kg	0.00169 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				45	mg/kg		40.05	mg/kg	0.004 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				23	mg/kg		20.47	mg/kg	0.00205 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				5.1	mg/kg		4.539	mg/kg	0.000454 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				23	mg/kg		20.47	mg/kg	0.00205 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	44.487	mg/kg	0.00445 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.213 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

toluene: (conc.: 1.16e-07%)
ethylbenzene: (conc.: 1.96e-07%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0792%)
xylene: (conc.: 4.36e-07%)

Classification of sample: S127-598933-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S127-598933-26/03/2018-
Moisture content:
11%
(wet weight correction)

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: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	23.502 mg/kg	0.00235 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.74 mg/kg	3.22	2.121 mg/kg	0.000212 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.33 mg/kg	1.142	0.336 mg/kg	0.0000336 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.462	31.219 mg/kg	0.00312 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	40.082 mg/kg	0.00401 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	96 mg/kg	1.56	133.271 mg/kg	0.00854 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.59 mg/kg	1.353	0.711 mg/kg	0.0000711 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	66.222 mg/kg	0.00662 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				99 mg/kg	2.774	244.43 mg/kg	0.0244 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		86 mg/kg		76.54 mg/kg	0.00765 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.0085	mg/kg		0.0075	mg/kg	0.000000757 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
21		naphthalene				0.29	mg/kg		0.258	mg/kg	0.0000258 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.29	mg/kg		0.258	mg/kg	0.0000258 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.18	mg/kg		0.16	mg/kg	0.000016 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				3.8	mg/kg		3.382	mg/kg	0.000338 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.78	mg/kg		0.694	mg/kg	0.0000694 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.8	mg/kg		5.162	mg/kg	0.000516 %	✓	
			205-912-4	206-44-0									
28		pyrene				5.3	mg/kg		4.717	mg/kg	0.000472 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.2	mg/kg		1.958	mg/kg	0.000196 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.5	mg/kg		2.225	mg/kg	0.000223 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.8	mg/kg		2.492	mg/kg	0.000249 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.75	mg/kg		0.668	mg/kg	0.0000668 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2.1	mg/kg		1.869	mg/kg	0.000187 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				1.3	mg/kg		1.157	mg/kg	0.000116 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.19	mg/kg		0.169	mg/kg	0.0000169 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	39.72	mg/kg	0.00397 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0649 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene: (conc.: 7.57e-07%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00765%)

Classification of sample: S128-598934-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S128-598934-26/03/2018-
Moisture content:
14%
(wet weight correction)

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: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	23.845 mg/kg	0.00238 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.57 mg/kg	3.22	1.578 mg/kg	0.000158 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16 mg/kg	1.142	0.157 mg/kg	0.0000157 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.462	33.937 mg/kg	0.00339 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		54 mg/kg	1.126	52.286 mg/kg	0.00523 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	84 mg/kg	1.56	112.681 mg/kg	0.00722 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28 mg/kg	1.353	0.326 mg/kg	0.0000326 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.976	79.347 mg/kg	0.00793 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
11	zinc { zinc chromate }	024-007-00-3				82 mg/kg	2.774	195.633 mg/kg	0.0196 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		130 mg/kg		111.8 mg/kg	0.0112 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		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 %		<LOD
20		pH			PH		8.8	pH		8.8	pH	8.8 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		1	mg/kg		0.86	mg/kg	0.000086 %	✓	
22		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthene		201-469-6	83-32-9		2.4	mg/kg		2.064	mg/kg	0.000206 %	✓	
24		fluorene		201-695-5	86-73-7		1.4	mg/kg		1.204	mg/kg	0.00012 %	✓	
25		phenanthrene		201-581-5	85-01-8		15	mg/kg		12.9	mg/kg	0.00129 %	✓	
26		anthracene		204-371-1	120-12-7		3.6	mg/kg		3.096	mg/kg	0.00031 %	✓	
27		fluoranthene		205-912-4	206-44-0		19	mg/kg		16.34	mg/kg	0.00163 %	✓	
28		pyrene		204-927-3	129-00-0		17	mg/kg		14.62	mg/kg	0.00146 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		7.2	mg/kg		6.192	mg/kg	0.000619 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		8.1	mg/kg		6.966	mg/kg	0.000697 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		8.4	mg/kg		7.224	mg/kg	0.000722 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.1	mg/kg		2.666	mg/kg	0.000267 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		6.7	mg/kg		5.762	mg/kg	0.000576 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		4.1	mg/kg		3.526	mg/kg	0.000353 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.82	mg/kg		0.705	mg/kg	0.0000705 %	✓	
36		benzo[ghi]perylene		205-883-8	191-24-2		4.1	mg/kg		3.526	mg/kg	0.000353 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28	mg/kg	1.785	42.987	mg/kg	0.0043 %	✓	
38		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
											Total:	0.0714 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0112%)

Classification of sample: S129-598935-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S129-598935-26/03/2018-
Moisture content:
11%
(wet weight correction)

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: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	25.852 mg/kg	0.00259 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.54 mg/kg	3.22	1.547 mg/kg	0.000155 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.19 mg/kg	1.142	0.193 mg/kg	0.0000193 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.462	35.121 mg/kg	0.00351 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	40.082 mg/kg	0.00401 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	68 mg/kg	1.56	94.4 mg/kg	0.00605 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.19 mg/kg	1.353	0.229 mg/kg	0.0000229 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.976	95.36 mg/kg	0.00954 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				84 mg/kg	2.774	207.395 mg/kg	0.0207 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		170 mg/kg		151.3 mg/kg	0.0151 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<**LOD**
		006-007-00-5											
20		pH				9.2	pH		9.2	pH	9.2 pH		
				PH									
21		naphthalene				0.26	mg/kg		0.231	mg/kg	0.0000231 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				0.55	mg/kg		0.49	mg/kg	0.000049 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.25	mg/kg		0.223	mg/kg	0.0000222 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				3.7	mg/kg		3.293	mg/kg	0.000329 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.78	mg/kg		0.694	mg/kg	0.0000694 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				5.2	mg/kg		4.628	mg/kg	0.000463 %	✓	
			205-912-4	206-44-0									
28		pyrene				4.7	mg/kg		4.183	mg/kg	0.000418 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.2	mg/kg		1.958	mg/kg	0.000196 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				2.4	mg/kg		2.136	mg/kg	0.000214 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.7	mg/kg		2.403	mg/kg	0.00024 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.84	mg/kg		0.748	mg/kg	0.0000748 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2.1	mg/kg		1.869	mg/kg	0.000187 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.22	mg/kg		0.196	mg/kg	0.0000196 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	41.309	mg/kg	0.00413 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0697 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0151%)

Classification of sample: S130-598936-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S130-598936-26/03/2018-
Moisture content:
14%
(wet weight correction)

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: 14% Wet Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide }		20 mg/kg	1.32	22.71 mg/kg	0.00227 %	✓	
		033-003-00-0 / 215-481-4 / 1327-53-3							
2		boron { diboron trioxide; boric oxide }		0.65 mg/kg	3.22	1.8 mg/kg	0.00018 %	✓	
		005-008-00-8 / 215-125-8 / 1303-86-2							
3		cadmium { cadmium oxide }		0.31 mg/kg	1.142	0.305 mg/kg	0.0000305 %	✓	
		048-002-00-0 / 215-146-2 / 1306-19-0							
4		chromium in chromium(III) compounds { chromium(III) oxide }		26 mg/kg	1.462	32.68 mg/kg	0.00327 %	✓	
		/ 215-160-9 / 1308-38-9							
5		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
		024-001-00-0 / 215-607-8 / 1333-82-0							
6		copper { dicopper oxide; copper (I) oxide }		43 mg/kg	1.126	41.635 mg/kg	0.00416 %	✓	
		029-002-00-X / 215-270-7 / 1317-39-1							
7		lead { lead chromate }	1	86 mg/kg	1.56	115.364 mg/kg	0.0074 %	✓	
		082-004-00-2 / 231-846-0 / 7758-97-6							
8		mercury { mercury dichloride }		0.25 mg/kg	1.353	0.291 mg/kg	0.0000291 %	✓	
		080-010-00-X / 231-299-8 / 7487-94-7							
9		nickel { nickel chromate }		27 mg/kg	2.976	69.109 mg/kg	0.00691 %	✓	
		028-035-00-7 / 238-766-5 / 14721-18-7							
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
		034-002-00-8							
11		zinc { zinc chromate }		87 mg/kg	2.774	207.562 mg/kg	0.0208 %	✓	
		024-007-00-3							
12		TPH (C6 to C40) petroleum group		68 mg/kg		58.48 mg/kg	0.00585 %	✓	
		/ / TPH							
13		confirm TPH has NOT arisen from diesel or petrol		☑					
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X / 216-653-1 / 1634-04-4							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
21		naphthalene				0.63	mg/kg		0.542	mg/kg	0.0000542 %	✓	
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.83	mg/kg		0.714	mg/kg	0.0000714 %	✓	
			201-469-6	83-32-9									
24		fluorene				0.66	mg/kg		0.568	mg/kg	0.0000568 %	✓	
			201-695-5	86-73-7									
25		phenanthrene				6.6	mg/kg		5.676	mg/kg	0.000568 %	✓	
			201-581-5	85-01-8									
26		anthracene				1.6	mg/kg		1.376	mg/kg	0.000138 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				8.6	mg/kg		7.396	mg/kg	0.00074 %	✓	
			205-912-4	206-44-0									
28		pyrene				8	mg/kg		6.88	mg/kg	0.000688 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				3.6	mg/kg		3.096	mg/kg	0.00031 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				4	mg/kg		3.44	mg/kg	0.000344 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				4.3	mg/kg		3.698	mg/kg	0.00037 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				1.5	mg/kg		1.29	mg/kg	0.000129 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				3.2	mg/kg		2.752	mg/kg	0.000275 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				2.2	mg/kg		1.892	mg/kg	0.000189 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.36	mg/kg		0.31	mg/kg	0.000031 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				2.2	mg/kg		1.892	mg/kg	0.000189 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	39.917	mg/kg	0.00399 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0602 %		

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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00585%)

Classification of sample: S131-598937-26/03/2018-

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
S131-598937-26/03/2018-
Moisture content:
15%
(wet weight correction)

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: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	20.201 mg/kg	0.00202 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.4 mg/kg	3.22	3.832 mg/kg	0.000383 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.28 mg/kg	1.142	0.272 mg/kg	0.0000272 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.462	28.573 mg/kg	0.00286 %	✓	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46 mg/kg	1.126	44.022 mg/kg	0.0044 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	100 mg/kg	1.56	132.584 mg/kg	0.0085 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28 mg/kg	1.353	0.322 mg/kg	0.0000322 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.976	58.186 mg/kg	0.00582 %	✓	
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<**LOD**
11	zinc { zinc chromate }	024-007-00-3				140 mg/kg	2.774	330.123 mg/kg	0.033 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		140 mg/kg		119 mg/kg	0.0119 %	✓	
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		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 %		<LOD
		006-007-00-5											
20		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
21		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.12	mg/kg		0.102	mg/kg	0.0000102 %	✓	
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				2.8	mg/kg		2.38	mg/kg	0.000238 %	✓	
			201-581-5	85-01-8									
26		anthracene				0.6	mg/kg		0.51	mg/kg	0.000051 %	✓	
			204-371-1	120-12-7									
27		fluoranthene				3.9	mg/kg		3.315	mg/kg	0.000331 %	✓	
			205-912-4	206-44-0									
28		pyrene				3.6	mg/kg		3.06	mg/kg	0.000306 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				1.6	mg/kg		1.36	mg/kg	0.000136 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				1.9	mg/kg		1.615	mg/kg	0.000162 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.61	mg/kg		0.519	mg/kg	0.0000519 %	✓	
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				1.4	mg/kg		1.19	mg/kg	0.000119 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.92	mg/kg		0.782	mg/kg	0.0000782 %	✓	
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.13	mg/kg		0.111	mg/kg	0.0000111 %	✓	
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
			205-883-8	191-24-2									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	40.97	mg/kg	0.0041 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										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
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 The absence of free draining liquid, the relatively low concentration of TPH reported and the absence of short chain petroleum hydrocarbon fractions indicate that this risk phrase is not applicable to this waste.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0119%)

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

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: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

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: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **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 Chronic 1 H410 , Aquatic Acute 1 H400

- **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: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

- **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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **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

- **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 Chronic 1 H410 , Aquatic Acute 1 H400

- **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Aquatic Chronic 3 H412 , Carc. 1B H350 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302 , Flam. Liq. 2 H225

- **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from 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: Ozone 1 H420 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Dam. 1 H318 , Skin Corr. 1B H314 , Acute Tox. 4 H312

- **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

Description/Comments: VOC; Data from 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: Press. Gas H280 , Ozone 1 H420 , Aquatic Chronic 3 H412

- **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Repr. 1A H360 , Carc. 1B H350 , Muta. 1B H340 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 3 H311 , Asp. Tox. 1 H304 , Acute Tox. 3 H301 , Flam. Liq. 3 H226

- **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from 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: STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226 , Flam. Liq. 2 H225 , Acute Tox. 4 H332

- **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , Muta. 2 H341 , STOT SE 3 H336 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H312 , Acute Tox. 4 H302

- **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 3 H412 , Acute Tox. 4 H312 , Carc. 2 H351 , Acute Tox. 4 H332 , Eye Dam. 1 H318 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 4 H302

- **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from 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: Aquatic Chronic 2 H411 , Asp. Tox. 1 H304 , STOT SE 3 H335 , Acute Tox. 4 H332 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226

- **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from 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: Aquatic Chronic 2 H411 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

- **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from 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: Aquatic Chronic 2 H411 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

- **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226

- **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 2 H371 , Repr. 2 H361 , Carc. 2 H351 , Acute Tox. 2 H330 , Eye Irrit. 2 H319 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 2 H310 , Acute Tox. 3 H301

- **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from 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: Aquatic Chronic 3 H410 , Aquatic Acute 1 H400 , STOT SE 3 H336 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from 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: Ozone 1 H420 , Acute Tox. 4 H312

- **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: STOT RE 2 H373 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT RE 2 H373 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H312 , Acute Tox. 4 H302

- **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from 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: STOT RE 2 H373 , STOT SE 1 H370 , Acute Tox. 2 H330 , Acute Tox. 1 H330 , Acute Tox. 4 H312 , Acute Tox. 3 H301

- **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H336 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from 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: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from 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: Aquatic Chronic 3 H412 , Repr. 2 H361 , STOT SE 3 H336 , STOT SE 3 H335 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from 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: Aquatic Chronic 2 H411 , Acute Tox. 4 H332 , Acute Tox. 4 H312 , Acute Tox. 4 H302

- **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Skin Sens. 1 H317 , STOT SE 3 H336 , Acute Tox. 4 H302 , Repr. 2 H361 , STOT RE 2 H373 , STOT SE 3 H335 , Acute Tox. 3 H311 , Acute Tox. 3 H331 , Skin Irrit. 2 H315

- **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from 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: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3 H301 , Acute Tox. 3 H311 , Acute Tox. 3 H331 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Carc. 2 H351 , Muta. 2 H341 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

- **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from 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: Aquatic Chronic 4 H413 , Eye Irrit. 2 H319 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 2 H361

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

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}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

vanadium {divanadium pentaoxide; vanadium pentoxide}

worst case/most likely scenario

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2019.94.3835.7831 (04 Apr 2019)
HazWasteOnline Database: 2019.94.3835.7831 (04 Apr 2019)

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 Wastes 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
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010