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SOLUTIONS LTD**

GEO-ENVIRONMENTAL ENGINEERING EXCELLENCE

KELLEN HOMES

Mount Road, Gorton

Remediation Validation Report

PH/C5150/14069

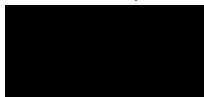
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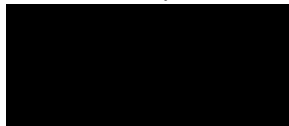
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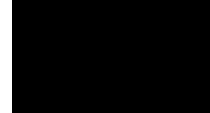
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CONTENTS

1.0	INTRODUCTION	1
1.1	CONTEXT	1
1.2	OBJECTIVES	1
1.3	PROPOSED DEVELOPMENT	1
1.4	PREVIOUS REPORTS AND CORRESPONDENCE	1
1.5	LIMITATIONS	1
2.0	GROUND MODEL SUMMARY	3
2.1	DESCRIPTION OF SITE	3
2.2	ENVIRONMENTAL SETTING	3
2.3	GROUND CONDITIONS	5
3.0	SUMMARY OF RISK ASSESSMENTS	6
3.1	GENERAL	6
3.2	HUMAN HEALTH RISKS	6
3.3	GROUND GAS AND VAPOURS	8
3.4	RISKS TO CONTROLLED WATERS	8
3.5	WASTE CLASSIFICATION SUMMARY	8
3.6	SUMMARY	9
4.0	REMEDIATION STRATEGY	10
4.1	OUTLINE	10
4.2	SITE REMEDIATION REQUIREMENTS	10
5.0	SITE REMEDIATION AND VALIDATION	11
5.1	GENERAL	11
5.2	SOURCE 1: TOPSOIL AND MADE GROUND TOPSOIL	11
5.3	INSTALLATION OF CLEAN COVER SYSTEM / BREAK LAYER	13
5.4	MMP VERIFICATION REPORTING	15
6.0	CONCLUSIONS	17
6.1	GENERAL	17
6.2	TOPSOIL AND MADE GROUND TOPSOIL	17
6.3	VERIFICATION OF CLEAN COVER SYSTEM	17
6.4	WATCHING BRIEF	17
6.5	LONG TERM MONITORING AND OTHER REQUIREMENTS	17

DRAWINGS

Drawing Number	Rev	Title
KH008-A-100	P8	CAD Site Layout
21659-CCL-XX-FN-DR-S-027	C03	Foundation Strategy Keyplan
21659-CCL-XX-FN-DR-S-030	C02	Removal of Desiccated Material – Reduced Level Dig Plan
604-1	G	Cut and Fill – Houses
604-2	G	Cut and Fill – Pitches
N/A	-	Football Pitch Finished Survey
P21374-00-001-GIL-L-0400_	P04	Legal Ownership Plan
N/A	-	Materials Mark Up Tracking Plan
C5150/01	-	Site Location Plan
C5150/02	-	Site Features Plan
C5150/03A&B	B	Exploratory Hole Plan
C5150/04	A	Conceptual Site Model – Controlled Waters
C5150/07	B	Earthworks Validation Testing Grid – 50m (25m sub-grid) (inc overlays)

APPENDICES	
Appendix	Title
Appendix A	Chemical Testing Results
Appendix B	Waste Transfer Notes
Appendix C	WRAP and Certificate of Provenance
Appendix D	Site Visit Records
Appendix E	Materials Management Plan
Appendix F	Materials Movement Records

1.0 INTRODUCTION

1.1 Context

This Remediation Validation Report has been produced by Brownfield Solutions Limited (BSL) on behalf of Kellen Homes for a site off Mount Road, Gorton.

As of May 2025, remedial works are ongoing, and this report will be updated upon satisfactory completion of the remediation objectives.

1.2 Objectives

The objective of the validation works is to provide evidence demonstrating implementation of appropriate remediation measures. The remedial works were carried out in order to make the site suitable for the proposed residential end use, as per the BSL Remedial Strategy, reference NA/C5150/11739 Rev E, dated November 2024, which is understood to have been accepted by the Local Planning Authority (Manchester City Council).

1.3 Proposed Development

The proposed development is for residential end use comprising a total of 267 No. residential houses and 36 No. apartments, in addition to construction of highways, infrastructure, gardens and soft landscaping. Additionally, there will be the construction of a youth, sport and community hub alongside 2 No. football pitches, sports court and cricket strip, as shown on the CAD Site Layout (Drawing ref. KH008-A-100-P8) provided to BSL by Kellen Homes.

1.4 Previous Reports and Correspondence

The following reports and correspondence with regulators are applicable to the site and should be read in conjunction with this validation report:

-
- BSL, Phase I Geo-Environmental Assessment Report (Ref. LC/5150/11494 Rev B) dated November 2023.
 - BSL, Phase II Geo-Environmental Assessment Report (Ref. MS/C5150/11591 Rev E) dated November 2023.
 - BSL, Remedial Strategy (Ref. NA/C5150/11739 Rev E) dated November 2024.
 - BSL, Piling Risk Assessment (Ref. KB/C5150/12833 Rev A) dated February 2024.
 - BSL, Geotechnical Testing Letter Report (Ref. DMG/C5150/13023) dated April 2024.
 - BSL, Borehole Decommissioning Specification (Ref. AJS/C5150/13105) dated May 2024.
 - BSL, Earthworks Specification (Ref. JW/C5150/13159) dated June 2024.
 - BSL, Borehole Decommissioning Letter (Ref. PH/C5150/13686) dated November 2024.
 - BSL, Earthworks Validation Report (Ref. PH/C5150/13819) dated February 2025.
 - BSL, Youthfed Handover Letter (Ref. PH/C5150/14144) dated April 2025.
-

It is assumed that the Local Planning Authority will have provided the above reports to the appropriate statutory consultees and the recommendations therein have been accepted.

1.5 Limitations

This report has been carried out based on information obtained from a number of areas, BSL have assumed that this information is correct.

There may be other conditions prevailing on the site which are outside the scope of work and have not been highlighted by this report and therefore not been taken into account by this report. Responsibility cannot be accepted for such site conditions not revealed by the assessment.

This report has been prepared for the sole use and reliance of the Client, Kellen Homes. No other third parties may rely upon or reproduce the contents of this report without the written permission of Brownfield Solutions Ltd (BSL). If any unauthorised third party comes into possession of this report, they rely on it at their own risk and BSL do not owe them any Duty of Care.

This report has been based on the proposed planning layouts provided. Any subsequent change to the planning layout may have an impact on the validity of recommendations made within this report. Furthermore, new information, changed practices or new legislation may necessitate revised interpretation of the report after the date of its submission.

The site plans enclosed in this report should not be scaled off. Any site boundary line depicted on plans does not imply legal ownership of land.

Any recommendations made in this report should be confirmed with the Regulatory Authorities to ensure compliance.

2.0 GROUND MODEL SUMMARY

2.1 Description of Site

The site is located off Mount Road, Gorton, M18 7SU. It is centred on National Grid Reference 388289, 395020 as shown on the Site Location Plan, Drawing No. C5150/01.

The main site features and potential issues identified during the time of the intrusive investigation are detailed below and are shown on the Site Features Plan, Drawing No C5150/02.

Feature	Description
Site Area	9.07 hectares.
Site Access	Access to the site is gained off Mount Road to the west of the site. The entrance is located in the northwest corner of the site.
Current Land Use and Site Features	The site as existing is vacant, with no public access, having previously been used as playing pitches until 2019. The site is rectangular in shape with the majority formed of grass land aside from an area of hard standing where the former changing facilities once stood. The former vehicular access is from Mount Road.
Potential Sources of Gross Contamination	No potential sources of contamination were identified during the site walkover.
Vegetation	There are sporadic mature/semi-mature trees located along the site boundaries.
Topography	The site is generally flat.
Site Boundaries	The north boundary comprises wooden fence panelling and mesh fencing backing onto gardens and a new housing development. The east boundary currently comprises temporary heras fencing. The south boundary comprises steel palisade fencing. The east boundary is defined by metal mesh fencing.
Surrounding Area	The site is set within a mixed commercial and residential area. The northern boundary of the site sits adjacent to a residential development build by Sedona Homes comprising terraced and semi detached properties, with Mannering Street running in between, separated by fencing. To the east is Wembley Road, which hosts a number of semidetached dwellings. To the west is Mount Road, with Gorton Primary School, Manchester Boxing Centre and Nutsford Vale Park adjacent to the street. To the south lies a footway which connects Mount Road to Wembley Road. Further south is Cedar Mount Academy.

2.2 Environmental Setting

Site History

In summary, the historical map evidence indicates that the site has remained as sports fields / football pitches since 1922. Several small buildings have been present across the site. The surrounding area is predominantly residential, however historically multiple ponds existed in close proximity to the site which are presumed to be infilled. Additionally, a large clay pit was present to the west of the site (later in use as a landfill).

Published Geology and Hydrogeology

From the Phase 1 Assessment and published geology, it was anticipated that ground conditions would comprise the following sequence of strata (top down):

- Made Ground; over

- Diamicton Till; over
- Chester Pebble Beds Formation.

Hydrogeology

Based on the inferred geology, a summary of the Environment Agency aquifer designations is presented in the table below:

Stratum	Coverage	Aquifer Designation
Diamicton Till	Full Site	Secondary Aquifer (Undifferentiated). The classification is assigned where it is not possible to attribute either category A or B to the aquifer.
Chester Pebble Beds Formation	Full Site	Principal Aquifer. This is Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale.

The site does not lie within 500m of a Source Protection Zone.

A historical groundwater abstraction for general cooling was located 246m south of the site, held by CBA Enterprises LTD. The nearest active abstraction is located approximately 1742m north and is held by Cemex UK Materials Limited. Review of the geology 2km away reveals this abstraction is from the Chester Pebble Beds Formation.

Hydrology

The nearest watercourse and surface water features is an unnamed and unmapped river crossing the east of the site. The closest major watercourse, the Gore Brook, is located 894m north of the site.

Potential Environmental Constraints

There is one BGS recorded landfill listed as being 305m west of the site at Matthews Lane. This site is also listed as an EA historical landfill extending to 97m west of the site and accepting inert, industrial, commercial, household, special and liquid sludge waste between 1969 and 1978. The Matthews Lane landfill site is located at the above-referenced clay pit. Information from Manchester City Council Environmental Protection Team indicates this is not gassing off-site.

Other historical landfill sites were recorded at Pink Bank Lane 244m northwest, accepting inert, commercial and household waste in 1981, and at Levenshulme Trading Estate 333m south accepting industrial and special waste, though does not specify dates of inputting.

There are two current waste management sites recorded within 250m of the site, both of which are 202m south of the site and relate to metal recycling.

There are three historical waste management sites recorded within 250m of the site, all of which relate to recycling facilities at an address 215m south of the site.

In addition, two ponds (potential gassing risks) were originally present onsite in the north on 1848 mapping, but no longer present from 1890. Multiple ponds are shown from the earliest mapping within 250m of the site. As the surrounding land became developed as part of Gorton, the ponds are no longer shown and are presumed to be infilled. Mapping from 1956 shows that all ponds were infilled.

Radon

Information from the environmental database report indicates the property is not in a radon affected area and therefore no radon protective measures are necessary in accordance with BRE Report 211 'Radon – Guidance on protective measures for new dwellings'.

UXO Risk

In accordance with CIRIA Report C681, BSL have reviewed non-specialist UXO data for the site using the online Zetica Bomb Risk Mapping data. The map indicates the site to be in an area where the bomb risk is moderate.

Since the site is considered to be at moderate UXO risk, in order to determine if and what further action may be required to mitigate the risk, a Preliminary UXO Risk Assessment was commissioned from 1st Line Defence Limited, Report Ref PA16560-00, dated 23rd September 2022 in accordance with the recommended process set out in CIRIA Report C681.

The report indicates that during WWII the 48th Battalion Manchester Home Guard utilised the site, however given its location and proximity to housing, schools and roadways it is unlikely to have been used for extensive exercises or live weapons training. Additionally, no bombs were recorded within or adjacent to the site boundary.

The report concluded that UXO risks at the site are not considered to be higher than the 'background risk' of finding UXO in this part of the country, with the site assigned as low / minimal risk, and therefore no further action is recommended for the site.

2.3 Ground Conditions

Observed Geology and Groundwater

From the investigations carried out, the ground conditions can be summarised as below (top down):

- Made ground generally comprising sandy gravel from ground level to between 0.40m and 2.50mbgl.
- A layer of softer organic clay, assumed to be relict topsoil, was encountered between 0.70 and 2.60m across the site. This band was not found to be more than 0.50m thick, generally 0.30m or less thick.
- Natural superficial deposits generally comprising firm to stiff clay proven to depths between 2.20m and 4.45mbgl.
- Groundwater levels ranging between 2.30m and 3.00m bgl during site works.
- Post site works monitoring levels ranging between 0.52m and 4.01m bgl. The shallowest groundwater levels were in WS04 & WS07 which are the closest exploratory boreholes to the culverted river.

Observations

With the exception of ash and clinker observed as a minor constituent in the made ground soils, no other evidence of chemical contamination was observed at the site. It should also be noted that glass/sharps were observed in the topsoil and the made ground immediately underlying the topsoil.

3.0 SUMMARY OF RISK ASSESSMENTS

3.1 General

The site investigations and assessments have confirmed the presence of pervasive heavy metal and PAH contamination within the topsoil, made ground topsoil and general made ground, as detailed in the sections below.

3.2 Human Health Risks

As part of the initial phase II intrusive investigation, samples were tested for an assessment of the chemical contamination that may pose a risk to human health. The results were examined with reference the LQM/CIEH S4ULs and DEFRA C4SLs for a residential end use with homegrown produce. The apparent exceedance of the relevant screening value is taken as indicating further detailed assessment or remedial action is required.

Metals

The following elevated metals were detected:

A summary of the elevated metals detected is presented below:

Metal	Depth Range (m)	No. of Samples Exceeding Screening Value	Concentration Range (mg/kg)	Adopted Screening Value (mg/kg)	Strata
Arsenic	0.10-0.20	2	39-53	37	Topsoil
Arsenic	0.10-0.20	3	45-67	37	Made Ground Topsoil
Arsenic	0.20-0.60	29	120-240	37	Made Ground
Copper	0.30-0.60	1	2700	2400	Made Ground
Lead	0.10-0.20	4	220-390	200	Topsoil
Lead	0.10-0.20	5	390-1300	200	Made Ground Topsoil
Lead	0.30-0.60	29	350-3500	200	Made Ground
Mercury	0.10-0.20	4	1.4-4.1	1.2	Made Ground Topsoil
Mercury	0.30-0.60	2	4.8-9.8	1.2	Made Ground
Nickel	0.30-0.60	2	140	130	Made Ground

Asbestos

No asbestos fibres have been detected in any of the 10 samples screened. Works were carried out by an engineer holding NLW CAT B asbestos training who reported that no visual evidence of asbestos was noted.

Poly Aromatic Hydrocarbons (PAHs)

Adopting the surrogate marker approach, elevated PAHs were recorded in numerous locations. A summary of the location(s) and elevated species of PAH's are shown in the table below:

Species	Depth Range (m)	No. of Samples Exceeding Screening Value	Concentration Range (mg/kg)	Adopted Screening Value (mg/kg)	Strata
Benzo(a)pyrene	0.10-0.20	3	6.0-71	5	Topsoil
Benzo(a)pyrene	0.10-0.20	3	56-130	5	Made Ground Topsoil
Benzo(a)pyrene	0.25-0.60	21	5.2-130	5	Made Ground

* Based on Soil Organic Matter content

Full details of the chemical testing can be found in the BSL Remedial Strategy (ref. NA/C5150/11739 Rev E).

Total Petroleum Hydrocarbons (TPH CWG) and BTEX Compounds

No petroleum hydrocarbons have been identified above the adopted screening criteria and no BTEX or MTBE compounds have been identified above the adopted screening criteria.

Supplementary Investigation Testing

The aim of the supplementary investigation was to identify and further assess the levels of contamination associated with near surface soils, in particular the topsoil, to determine potential suitable re-use routes and assess waste classification for potential offsite disposal of soils.

A further 141 samples were analysed for a general broad suite of contaminants, including metals, asbestos, PAHs and TPH CWG.

Summary of Assessments and Outline Remedial Recommendations

It was considered unlikely that the site is being affected by offsite contamination sources as the site is underlain by clay strata and therefore contamination is unlikely migrate onto the site.

Based on the testing and assessment undertaken it would appear that there is pervasive contamination within the topsoil, made ground topsoil and made ground in the form of heavy metals and PAHs.

It should also be noted that there are still numerous exceedances in heavy metals and PAHs when the chemical testing results are compared against Public Open Space (POS) park screening values as would be applicable for the proposed sports pitches area in the west.

The initial phase II assessment stated that the above pose a risk to human health and requires further consideration. Outline remedial measures included either off site removal and / or re-use below a clean cover system.

Based on the supplementary assessment, it would appear that the majority of the topsoil would be unsuitable for the end use scenarios of commercial, POS and residential uses in their current state. However, with appropriate screening / sorting to remove glass this could negate ~50% of soils being

removed off site to landfill with them being suitable for re-use on a commercial site or in POS areas (with relevant permits/exemptions etc in place from a waste regulation perspective).

To aid sustainability of the development and minimise the volume of soils to be removed from site, one remedial option for the impacted topsoil could be to place the material underneath the lower sensitivity proposed sports pitches, below a layer of clean cover to break the pathway to end users

3.3 Ground Gas and Vapours

A summary of the ground gas monitoring carried out by BSL is presented below:

- BSL conducted 6 monitoring visits over 3 months.
- Methane was not recorded above the detection limit of the monitoring equipment (i.e. <0.1% v/v).
- Carbon dioxide concentrations were recorded up to 3.9% v/v.
- Oxygen concentrations ranged between 10.4% v/v and 22.2% v/v.
- The maximum steady state gas flow rate was 0.1 l/hr.

On the basis of the above and the assessment carried out, and liaison with Manchester City Council (MCC) Environmental Protection Team reading the frequency of visits, the site has been classified as Green in accordance with the NHBC Traffic Light Classification and therefore no mitigation measures are required

3.4 Risks to Controlled Waters

Based on the investigation works undertaken to date and subject to agreement with the Environment Agency, the site is not considered to pose a significant risk to controlled water for the following reasons:

- There is no indication under present conditions of pollution of controlled waters and conditions following development of the site will not be any worse, indeed they may improve with increased hard cover and water retaining imported garden soils.
- No significant mobile contamination has been identified on site in soils based on the results obtained as a potential indicator of groundwater contamination.
- The site is underlain by very low permeability clays as proven by the infiltration testing which will inhibit lateral and vertical contaminant migration. There is believed to be over 30m of low permeability clay above the bedrock aquifer based on wider area BGS boreholes.
- The site does not lie within 500m of an SPZ.
- There are no groundwater abstractions within 1700m.
- There are no potable (sensitive) water abstractions within 2000m.

Based on the above, the site is not considered to pose an unacceptable risk to controlled waters. Therefore, no specific remedial requirements for controlled waters are necessary.

3.5 Waste Classification Summary

Test results were assessed through a waste classification database which allows users to code and classify waste as defined in the EWC (European Waste Catalogue) based on EC Regulation 1272/2008 on the Classification, Labelling and Packaging of Substances and Mixtures (CLP) and latest Environment Agency guidance (WM3 "Guidance on the classification and assessment of waste -Technical Guidance").

139 samples of topsoil were tested to assess whether they contained any contaminants in the hazardous range when screened against assessment criteria within WM3 using the HazWasteOnline tool.

Based on the waste classification database assessment, the majority of the topsoil has been classified as non-hazardous. The results of the waste assessment where hazardous properties have been flagged based on total concentrations are summarised in the table below:

Location	Depth (m)	Stratum	Waste Classification	Comments
TP103	0-0.20	MADE GROUND TOPSOIL	Hazardous	HP 10, HP 14
TP104	0-0.20	MADE GROUND TOPSOIL	Hazardous	HP 14
TP106	0-0.20	MADE GROUND TOPSOIL	Hazardous	HP 14
TP238	0-0.20	MADE GROUND TOPSOIL	Hazardous	HP 14
TP109	0-0.15	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
TP240	0-0.20	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
TP127	0-0.05	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
TP180	0-0.10	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
TP186	0-0.10	MADE GROUND TOPSOIL	Hazardous	HP 10, HP 14
TP209	0-0.10	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
TP219	0-0.10	MADE GROUND TOPSOIL	Hazardous	HP 7, HP 11
WS04	0.30-0.50	MADE GROUND	Hazardous	HP14
WS07	0.40-0.60	MADE GROUND	Hazardous	HP14
WS08	0.30-0.60	MADE GROUND	Hazardous	HP7, HP11

When segregating soils on site, a worst case should be assumed that the materials extend up to the exploratory positions classified as non-hazardous.

Note that further testing of the soils (WAC testing) may be required on the actual arisings in order to satisfactorily categorise the soil for its suitability if disposal to landfill is the only option.

3.6 Summary

A summary of the findings of the previous investigations and assessments where a risk is present (i.e. an unacceptable source-pathway-receptor linkage) which requires mitigation is presented in the table below:

Source	Receptor
<- Poses an unacceptable risk to ->	
Elevated concentrations of heavy metals (arsenic, copper, lead, mercury, nickel) and PAHs (BaP via surrogate marker approach) are present within the topsoil and made ground, in addition to sharps/glass.	Human health / construction workers (Residential with homegrown produce / Public Open Space screening criteria adopted)

Based on the above, it was recommended that a Remedial Strategy was prepared that identifies the specific remediation requirements for the site.

4.0 REMEDIATION STRATEGY

4.1 Outline

Based on the site investigations undertaken at the site and the contaminant sources identified within the CSM, the following was appraised to determine the most suitable remedial options:

- General topsoil and made ground - Elevated concentrations of heavy metals (arsenic, copper, lead, mercury, nickel) and PAHs (BaP via surrogate marker approach) present within the topsoil and made ground, in addition to sharps/glass.

4.2 Site Remediation Requirements.

Following an options appraisal in the Remedial Strategy (Ref. NA/C5150/11739 Rev E), the most feasible remedial options were outlined. Full details are available within the Remedial Strategy, with the key requirements summarised in the table below.

Source	Contaminants of Concern	Remediation Method	Further Details / Remedial Requirements
1 - Topsoil, Made Ground Topsoil	Arsenic, Lead, PAHs, glass/sharps	Excavation and off-site removal	Soils unsuitable for intended end use – to be removed from site; either to a suitably licenced facility, soils recycling plant or to an appropriate end use scenarios (e.g. a commercial end use site after screening/sorting and under appropriate permits).
2 - Made Ground	Arsenic, Lead, PAHs, glass/sharps	Clean cover system Materials Management	In private gardens and soft landscaping areas, a cover system comprising “clean” validated topsoil should be installed. Soils to be re-used under declared MMP where suitable.

In line with the above table, it was stated within the Remedial Strategy that to aid sustainability of the development and minimise the volume of soils to be removed from site, one remedial option for the impacted topsoil could be to place the material underneath the lower sensitivity proposed sports pitches, below a layer of clean cover to break the pathway to end users. This approach was accepted by the local authority (Manchester City Council) as part of the remedial strategy.

In addition to the specific remedial requirements listed in the table above which are intended to mitigate the risks from known sources, it was recommended that a watching brief be maintained during the groundworks and construction for any evidence of contamination and BSL consulted for advice.

With reference to the remedial requirements, “clean” soils are defined by the site-specific Human Health Remediation Targets which are derived from C4SLs/S4ULs for a residential with plant uptake end use.

Materials Management Plan

In order to enable the importation of, excavation and re-use of materials on site as part of the enabling works and in order to build up site levels under the current regulatory regime and waste regulations, a Materials Management Plan was produced and declared to CL:AIRE. The Materials Management Plan is presented in Appendix E.

5.0 SITE REMEDIATION AND VALIDATION

5.1 General

The remediation process was undertaken over several stages and site visits were undertaken between the dates of 23rd September 2024 and 17th June 2025.

A summary of the site works undertaken in accordance with the Remedial Strategy (report ref. NA/C5150/11739 Rev E) is detailed below.

5.2 Source 1: Topsoil and Made Ground Topsoil

A pre-site meeting was undertaken prior to the start of the remedial works being undertaken onsite. As stated above, a sustainable approach to the risk posed by the made ground topsoil onsite is for re-use below the clean cover system in the sport pitches area. From the Phase II investigations, there were 11 locations where the made ground topsoil was classified as hazardous for offsite disposal. As such, after discussion with Kellen Homes, it was decided that the most economic and sustainable approach for the soils classified as hazardous made ground topsoil (for disposal purposes) was for it to be re-used in the area of the pitches (noting that this classification only applies to soils to be disposed of and is not in reference to the risks to controlled waters/human health, whereby risk assessment indicates the material is suitable for re-use below a cover layer without long term management).

As the rest of the site wide non-hazardous topsoil was also unsuitable for re-use within the near surface of the residential areas of the site, a site wide strip was to be undertaken, with the non-hazardous made ground topsoil being removed offsite for disposal. It should be noted that some non-hazardous topsoil is to be retained for re-use in the pitches areas in addition to the hazardous material in order to build up levels to earthworks finished level (EWFL) in accordance with agreed planning levels.

In order to separate the hazardous and non-hazardous topsoil, the outer boundaries of the hazardous areas were delineated and segregated from the non-hazardous areas, as shown on the below photographs. The boundaries of the hazardous material was defined by extending the hazardous sample location, up to the nearest non-hazardous location, as shown on the Exploratory Hole Plan (C5150/03A&B Rev B).



Photographs showing boundaries of delineated hazardous topsoil (for disposal purposes)

The topsoil from within these areas was then removed between the dates of 23rd September 2024 and 3rd October 2024 and stockpiled within the area of the proposed pitches for later placement. The total volume for the hazardous material removed from the above areas and stockpiled was 3,491.83m³.

Following the excavation of the hazardous material, a site wide strip of the non-hazardous topsoil (including within the pitches/community hub/apartments areas) was undertaken between the dates of 3rd and 18th October 2024. This material was then stockpiled in the centre of the site pending offsite removal. The total volume of topsoil generated as part of the site strip was 13,858m³, with 2,808m³ of this retained onsite to build up levels in the proposed pitches area. In total, the volume of non-hazardous topsoil taken offsite was 11,050m³. Waste transfer notes for this material can be found in Appendix B.

The topsoil was taken offsite by two haulage companies; PP O'Connor and Cheshire Soils and Aggregates Ltd. A breakdown of the offsite disposal locations are presented in the table below:

Haulage Company	Material Quantity (tonnes)	Approximate Volume (m ³)	Destination
PP O'Connors	7500	6250	Valencia Waste Management Pilsworth South Landfill Site Pilsworth Road Bury BL9 8Q2
Cheshire Soils and Aggregates Ltd	1500	1250	Soil Recycling Facility Unit 6 Monde Trading Estate Trafford Park M17 1LP
Cheshire Soils and Aggregates Ltd	5000	4100	Booth Ventures Harwood Quarry Brookfold Lane Harwood Bolton BL2 4LT

The non-hazardous topsoil was removed from site between the dates of 25th February and 3rd April 2025. Photographic evidence of the stockpiles and non-hazardous topsoil being removed from site can be found in the site visit records in Appendix D.

The topsoil classified as hazardous for disposal purposes was spread across the pitch areas between the dates of 3rd and 20th March 2025 (3,491.83m³). In addition, non-hazardous topsoil (2,808m³) and natural subsoil (5,961m³) were also placed within this section of the site in order to build up levels prior to the placement of the clean cover system. The naturally occurring subsoil was sourced both from the desiccated clay excavation in the east section of the site (see also BSL Earthworks Validation Report PH/C5150/13819) and the arisings from the footings/service runs. As detailed below in section 5.3, this material was stockpiled in the pitches area prior to the placement of the hazardous soils, but only a portion of the stockpile was used in the build-up of the pitches as the rest was to be used in the clean cover system (Stockpile 25 – 3,200m³).

Following the placement of these soils to the Earthworks Finished Level (EWFL), a survey was undertaken by WPI to provide the levels for the EWFL, which will act as a reference for the future implementation of the clean cover system by Youthfed (see Section 5.4) as shown on the Football Pitch Finished Survey appended to the rear of this report.

As part of the earthworks in the eastern section of the site, approximately 6,977m³ of made ground was taken from the area of the pitches and placed within the excavations in the east section of the site in order to replace the excavated desiccated clays. As stated in the below section, this desiccated clay was stockpiled in the pitches area prior to the placement of the hazardous topsoil. Once Stockpile 25 was removed from the pitches area into the middle of the site (as shown on the Materials Movement Markup

Plan), the hazardous topsoil, non-hazardous topsoil and a portion of the subsoil was plated in the pitches area as detailed above.

This material was subsequently replaced by the site won naturally occurring clay from these excavations. More details can be found in the BSL Earthworks Validation Report (ref. PH/C5150/13819).

Watching Brief

In addition to period monitoring visits by BSL, a watching brief was also maintained by the Groundworks Contractor throughout the remediation and redevelopment of the site. To the best of BSL's knowledge, no unexpected contamination was identified. The ground conditions encountered during the redevelopment phase were understood to be consistent with those encountered during the earlier ground investigations.

Therefore, no additional remedial measures with respect to the topsoil and made ground topsoil were considered necessary at the site over and above those already stipulated within the approved Remedial Strategy and within this Verification report.

5.3 Installation of Clean Cover System / Break Layer

As detailed in the Remediation Strategy (report reference NS/C2378/9272) The clean cover system in private garden areas should comprise (top down):

- 200mm "clean" validated topsoil; over
- 400mm "clean" validated subsoil.

The cover layer in public open space areas and soft landscaping should comprise (top down):

- 200mm "clean" validated topsoil; over
- 250mm "clean" validated subsoil.

The cover layer beneath the grassed football pitches should comprise (top down):

- 200mm "clean" validated topsoil; over
- 400mm "clean" validated subsoil; over
- High visibility geotextile separation layer.

Chemical suitability of cover system components

The requirements for testing, as outlined within the approved Remedial Strategy, are detailed below:

Material	Source	Testing Suite	Sampling Frequency
Topsoil	Greenfield (Offsite Import)	BSL Default Suite: Metals and PAHs Asbestos Screen	1 sample* per 50m ³ (minimum of 3 samples per source)
Subsoil	Brownfield (Site Won)	BSL Default Suite: Metals and PAHs TPH CWG Asbestos Screen	1 sample* per 100m ³ (minimum of 3 samples per source)

*Suite of analysis dependent on source of soil.

It should be noted that as part of the correspondence with Manchester City Council (Rebecca Twigg), it was agreed that the frequency of testing for the site-won natural subsoil to be used in the clean cover

system was to be reduced from 1:50m³ to 1:100m³ due to the limited historical development and lack of gross contamination onsite.

Testing Regime and Results

As part of the enabling works onsite, excavation of desiccated clays and replacement with suitable granular fill was undertaken in the eastern section of the site in order to enable vibro foundations and remove requirement to deepen foundations due to tree influence. Further details of this exercise can be found in the BSL Earthworks Validation Report (ref. PH/C5150/13819).

The natural cohesive strata excavated from the above areas in the eastern section of the site were stockpiled in the pitches area (prior to the placement of hazardous topsoil) – Stockpile 25. Additionally, other natural cohesive arisings from footings and sewers were also added to this stockpile in this section of the site. The total volume of stockpile 25 was 3,200m³, therefore 32 samples in total were taken for this stockpile. Three smaller natural cohesive subsoil stockpiles; Stockpile 1 (300m³), Stockpile 3 (400m³) & Stockpile 4 (300m³) were also tested, present in the eastern section of the site. These samples were taken between the dates of 29th October 2024 and 18th February 2025.

Stockpile	Volume (m ³)	Sampling Frequency	Date(s) Tested	Number of Tests	Suitability for Use (Y/N)
Stockpile 1	300	1:100m ³	29/10/24	3	Y
Stockpile 3	400		18/05/25	4	Y
Stockpile 4	300		18/05/25	3	Y
Stockpile 25	3200		29/10/25, 15/01/25 & 18/02/25	32	Y

Full details of the sampling and stockpiles can be found in the site visit records. The above sampling was compared against the suitability criteria outlined in the BSL remedial strategy (ref NA/C5150/11739 Rev E) in order to confirm suitability. The chemical testing results are presented in Appendix A.

During sampling there was no evidence of anthropogenic materials within the subsoil. The subsoil samples were tested for metals, PAHs, asbestos screen and TPH CWG in general accordance with the BSL remedial strategy (ref NA/C5150/11739 Rev E).

Prior to the placement of the soils within the build-up of the pitches in the western section of the site, stockpile 25 was moved from the pitches area to the centre of the site.

Stockpile 3 has subsequently been placed in plots 82-101, whilst stockpile 4 has been placed in plots 102-129.

Due to the topsoil onsite being unsuitable for use within the clean cover system, there is a requirement to import circa 4,000m³ of topsoil to site. Currently only 300m³ of topsoil has been imported to site to date and import is currently ongoing.

The details for the donor site(s) at this stage are as follows;

The Finches at Hilton Grange (Redrow)
Lower Road
Liverpool
Merseyside
L26 0BQ

BSL attended the above site on 7th May 2025 in order to undertake at-source chemical suitability testing. Approximately 500m³ of material was available at the time of the visit, although more will become available as the site progresses. 10 samples were taken at a frequency of 1 sample per 50m³.

During sampling there was no evidence of anthropogenic materials within the topsoil. The topsoil samples were tested for metals, PAHs and asbestos screen in general accordance with the BSL remedial strategy (ref NA/C5150/11739 Rev E) in line with a greenfield source.

Import of the topsoil to site is currently in progress and this report will be updated once the onsite testing for the initial 500m³ and any subsequent import is completed.

In accordance with the requirements of the Remedial Strategy, all the available results from the 42 No. samples of subsoil and 10 No. of topsoil were compared with the Generic Risk Assessment Criteria Values for Residential with Plant Uptake, which are presented in Appendix A.

Assessment Summary

The concentrations of metals, asbestos, PAHs and TPH in the topsoil/subsoil samples did not exceed the Human Health Remedial Targets and therefore are considered to be chemically suitable for use on site.

Depth Validation

BSL have not been instructed to undertake the depth validation of the clean cover system onsite, either within the Kellen Homes section or the Youthfed part of the site. BSL understand that E3P will be undertaking the validation within the low-rise residential development section of the site operated by Kellen Homes, but have not been informed of the contractor who will be validating the Youthfed section of the site. The clean cover depth validation will not be covered in this report and will be submitted under separate cover.

5.4 MMP Verification Reporting

In accordance with the requirements of Section 3.4 of the CL:AIRE DoWCoP, this section of the report will outline how the materials management planning has been carried out over the course of the project. The report will compare the works carried out with the original Materials Management Plan (MMP) and any changes to the works.

To date, the only materials imported to site under the MMP is the 500m³ of topsoil currently being imported from The Finches, Halewood (Redrow) as detailed above. This donor site has been declared in an updated version of the MMP (NS/C5150/13285 Rev A) issued in June 2025. As stated in section 5.2, all other unsuitable soils (non-hazardous topsoil) and materials have been removed and disposed off-site to a suitable facility.

All site-won materials were re-used in accordance with the BSL Remedial Strategy and Earthworks Specification, which included the placement of soils for geotechnical purposes. The records for these works can be found in the Earthworks Validation Report (ref. PH/C5150/13819).

A summary of the requirements of the MMP Verification and location of the information is presented in the table below:

Item	Comments
Appropriate site plans	See drawings section of this report.
Experience and qualifications of the person preparing the report	Peter Holland BSc (Hons) FGS –Over four years of industry experience, has authored several MMPs. Has attended internal training on the DoWCoP and MMPs presented by Aaron Stokoe (CL:AIRE QP414) and Soil reuse in construction: A CL:AIRE DoW CoP MMP journey webinar.

Item	Comments
	Nicola Swallow BSc (Hons) MSc MEnvSc – Principal Project engineer with over 12 years' of industry experience and authored numerous MMPs.
Description of how the use of materials links with the Remediation Strategy	In accordance with the approved Remedial Strategy, MMP and Earthworks Specification, enabling earthworks were carried out to create a level development platform for the residential development, including the use of made ground in the desiccated clay excavation area. A site wide strip of the unsuitable topsoil was undertaken, with non-hazardous topsoil taken offsite and hazardous topsoil used below the proposed clean cover system in the low-sensitivity pitches area.
Reference to site investigation data	BSL Phase I Geo-Environmental Assessment Report (ref. LC/C5150/11494 Rev B) dated November 2023. BSL Phase II Geo-Environmental Assessment Report (ref. MS/C5150/11591 Rev E) dated November 2023 BSL Supplementary Geo-Environmental Site Investigation (ref. MB/C5150/12138) dated June 2023 Summaries provided in Section 2.0 of this report.
Reference to risk assessments	As above. Summaries provided in Section 3.0 of this report.
Reference to the MMP and associated tracking system, including any deviations and why	BSL, Materials Management Plan, reference NS/C5150/13285 Rev A, dated May 2025. Tracking forms included in Appendix F. See volumes table below.
The suitable for use criteria adopted	See BSL Remediation Strategy, reference NA/C5150/11739 Rev E.
Reference to waste transfer documentation, including return loads	Waste transfer notes provided in Appendix B.
Record of quantity of materials used	See table below.
Copies of signed Declaration(s) by Qualified Person(s)	See MMP in Appendix E.

The volumes of materials re-use provided by the contractor to BSL is summarised in the table below:

Materials Type	Description / Comments / Area of Use	Estimated Volume Re-Used/Imported (m ³)
Class 1	Clean Quarried Type 1 Sub-Base	Imported under Certificate of Provenance, no requirement to declare
Class 2	General fill and clean cover system subsoil (site won).	22,000
Class 6F2	Highways and drainage/services	WRAP QP material, no requirement to declare (end of waste criteria met)
Class 5	Topsoil (import).	Up to 500 to date

6.0 CONCLUSIONS

6.1 General

The remedial works described within this report were carried out between the dates of 23rd September 2024 and 17th June 2025 under the supervision of experienced BSL geo-environmental engineers.

6.2 Topsoil and Made Ground Topsoil

A sustainable remediation strategy was adopted for managing the made ground topsoil onsite, focusing on the reuse of material within the proposed sports pitches area beneath the proposed clean cover system. Phase II investigations identified 11 locations where the topsoil was classified as hazardous for disposal; however, risk assessments confirmed its suitability for reuse in a low-sensitivity setting below the cover system in the pitches. Following discussions with Kellen Homes, it was agreed that both hazardous and non-hazardous made ground topsoil would be reused to achieve earthworks finished levels (EWFL) in the pitches area, while the remaining non-hazardous topsoil unsuitable for use would be removed offsite.

To facilitate this, hazardous and non-hazardous areas were delineated based on exploratory sampling from the site investigation, and the hazardous soils were stockpiled onsite for later placement. A total of approximately 3,492 m³ of soil classified as hazardous (for disposal, not -re-use purposes) and 2,808 m³ of non-hazardous topsoil were reused in the pitches area, along with 5,961 m³ of naturally occurring subsoil. The remaining 11,050 m³ of non-hazardous topsoil was removed from site for disposal. Additionally, 6,977 m³ of made ground was relocated from the pitches area to excavations in the eastern part of the site which replaced the desiccated clays.

It should be noted that the clean cover system in the pitches, POS and residential gardens have not been implemented to date and BSL have not been instructed to verify these remediation works at the time of writing.

6.3 Verification of Clean Cover System

Based on the chemical testing completed, BSL can confirm that the site won naturally occurring subsoil tested by BSL is considered suitable for use in the clean cover system. Importation of topsoil is ongoing and this report will be updated once import is completed. No depth validation of the clean cover system has been undertaken to date, this will be undertaken by E3P as part of a separate validation report.

6.4 Watching Brief

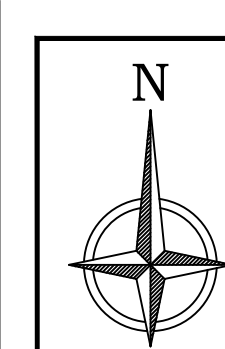
Alongside periodic monitoring visits by BSL, a watching brief was also maintained by the Principal Contractor throughout the remediation and redevelopment of the site. To the best of BSL's knowledge, gross contamination was not identified, and the ground conditions were understood to be broadly consistent with those encountered during the earlier ground investigations. Therefore, no additional remedial measures were considered necessary at the site over and above those already stipulated within the approved Remedial Strategy

6.5 Long Term Monitoring and Other Requirements

BSL can confirm that there are no long-term monitoring requirements at the site and that there are no further requirements in respect to remediation and validation considered at this stage. Following

completion of outstanding exercises, this report will be updated, and the potential need for other requirements will be reassessed.

DRAWINGS



Mount cademy

Grange School

Shelter

MATTHEWS LANE

MANNERING STREET

WEMBLEY ROAD

HARLOW DR

Gorton Education Village

Cedar Mount Academy

Melland High School

BRITLAND AVENUE

BRATTON DRIVE

- Legend**
- Indicates 1.8m high feature fence
 - Indicates 1.8m high plot divisional screen fence
 - Indicates bin stores
 - Indicates principle entrance door to dwelling
 - Indicates secondary entrance door to dwelling
 - Indicates application site boundary
 - Indicates affordable units
 - Indicates adaptable units
 - Indicates footpath connection points
 - Indicates proposed trees
 - Indicates substation
 - Indicates pumping station
 - Indicates electric vehicle charging points

All plots to be provided with a secure cycle point.

Accommodation Schedule
Mount Road, Gorton

House Type	Bed No.	Type	No.	Sqft	Total Sqft	Split
Private						
Hic	2	Semi	73	767	55991	24.09%
Olive	2	Semi	8	770	6160	2.68%
Ced	3	Semi	62	936	76752	27.95%
Ac	3	Semi	26	940	24440	8.38%
Em	4	Semi	18	1064	19152	5.94%
			207		109495	68.32%
Affordables						
ada305	2	Semi	2	835	1670	0.66%
ada1009	3	Semi	2	1009	2018	0.66%
Hic	2	Semi	25	767	19175	8.29%
Ced	3	Semi	19	936	17784	8.27%
Ac	3	Semi	6	940	5640	1.98%
Oli	2	Semi	2	770	1540	0.69%
Em	4	Semi	4	1064	4256	1.32%
			60		52083	19.80%
			267		235578	
YP Studio Apartments						
Apts	1	Apartments	36	280	10080	11.88%
			36		10080	11.88%
			303		246658	100.00%

Gross Site Area:	22.4	Acres	9.07	Hectares
Net Residential Site Area:	15.640	Acres	6.33	Hectares
Gross Density:	13.53	Units/Acre	33.43	Units/Hectare
Net Density:	19.37	Units/Acre	47.87	Units/Hectare
Gross Footage:	10622.23	SQFT/Acre	2507.37	SQ/M/Hectare
Net Footage:	15643.09	SQFT/Acre	3591.13	SQ/M/Hectare

P8	07.11.22	08.10.22	09.10.22	10.10.22	11.09.22	12.09.22	13.09.22	14.09.22	15.09.22	16.09.22	17.09.22	18.09.22	19.09.22	20.09.22	21.09.22	22.09.22	23.09.22	24.09.22	25.09.22	26.09.22	27.09.22	28.09.22	29.09.22	30.09.22	01.10.22	02.10.22	03.10.22	04.10.22	05.10.22	06.10.22	07.10.22	08.10.22	09.10.22	10.10.22	11.10.22	12.10.22	13.10.22	14.10.22	15.10.22	16.10.22	17.10.22	18.10.22	19.10.22	20.10.22	21.10.22	22.10.22	23.10.22	24.10.22	25.10.22	26.10.22	27.10.22	28.10.22	29.10.22	30.10.22	31.10.22	01.11.22	02.11.22	03.11.22	04.11.22	05.11.22	06.11.22	07.11.22	08.11.22	09.11.22	10.11.22	11.11.22	12.11.22	13.11.22	14.11.22	15.11.22	16.11.22	17.11.22	18.11.22	19.11.22	20.11.22	21.11.22	22.11.22	23.11.22	24.11.22	25.11.22	26.11.22	27.11.22	28.11.22	29.11.22	30.11.22	01.12.22	02.12.22	03.12.22	04.12.22	05.12.22	06.12.22	07.12.22	08.12.22	09.12.22	10.12.22	11.12.22	12.12.22	13.12.22	14.12.22	15.12.22	16.12.22	17.12.22	18.12.22	19.12.22	20.12.22	21.12.22	22.12.22	23.12.22	24.12.22	25.12.22	26.12.22	27.12.22	28.12.22	29.12.22	30.12.22	31.12.22	01.01.23	02.01.23	03.01.23	04.01.23	05.01.23	06.01.23	07.01.23	08.01.23	09.01.23	10.01.23	11.01.23	12.01.23	13.01.23	14.01.23	15.01.23	16.01.23	17.01.23	18.01.23	19.01.23	20.01.23	21.01.23	22.01.23	23.01.23	24.01.23	25.01.23	26.01.23	27.01.23	28.01.23	29.01.23	30.01.23	31.01.23	01.02.23	02.02.23	03.02.23	04.02.23	05.02.23	06.02.23	07.02.23	08.02.23	09.02.23	10.02.23	11.02.23	12.02.23	13.02.23	14.02.23	15.02.23	16.02.23	17.02.23	18.02.23	19.02.23	20.02.23	21.02.23	22.02.23	23.02.23	24.02.23	25.02.23	26.02.23	27.02.23	28.02.23	29.02.23	30.02.23	01.03.23	02.03.23	03.03.23	04.03.23	05.03.23	06.03.23	07.03.23	08.03.23	09.03.23	10.03.23	11.03.23	12.03.23	13.03.23	14.03.23	15.03.23	16.03.23	17.03.23	18.03.23	19.03.23	20.03.23	21.03.23	22.03.23	23.03.23	24.03.23	25.03.23	26.03.23	27.03.23	28.03.23	29.03.23	30.03.23	31.03.23	01.04.23	02.04.23	03.04.23	04.04.23	05.04.23	06.04.23	07.04.23	08.04.23	09.04.23	10.04.23	11.04.23	12.04.23	13.04.23	14.04.23	15.04.23	16.04.23	17.04.23	18.04.23	19.04.23	20.04.23	21.04.23	22.04.23	23.04.23	24.04.23	25.04.23	26.04.23	27.04.23	28.04.23	29.04.23	30.04.23	01.05.23	02.05.23	03.05.23	04.05.23	05.05.23	06.05.23	07.05.23	08.05.23	09.05.23	10.05.23	11.05.23	12.05.23	13.05.23	14.05.23	15.05.23	16.05.23	17.05.23	18.05.23	19.05.23	20.05.23	21.05.23	22.05.23	23.05.23	24.05.23	25.05.23	26.05.23	27.05.23	28.05.23	29.05.23	30.05.23	31.05.23	01.06.23	02.06.23	03.06.23	04.06.23	05.06.23	06.06.23	07.06.23	08.06.23	09.06.23	10.06.23	11.06.23	12.06.23	13.06.23	14.06.23	15.06.23	16.06.23	17.06.23	18.06.23	19.06.23	20.06.23	21.06.23	22.06.23	23.06.23	24.06.23	25.06.23	26.06.23	27.06.23	28.06.23	29.06.23	30.06.23	01.07.23	02.07.23	03.07.23	04.07.23	05.07.23	06.07.23	07.07.23	08.07.23	09.07.23	10.07.23	11.07.23	12.07.23	13.07.23	14.07.23	15.07.23	16.07.23	17.07.23	18.07.23	19.07.23	20.07.23	21.07.23	22.07.23	23.07.23	24.07.23	25.07.23	26.07.23	27.07.23	28.07.23	29.07.23	30.07.23	31.07.23	01.08.23	02.08.23	03.08.23	04.08.23	05.08.23	06.08.23	07.08.23	08.08.23	09.08.23	10.08.23	11.08.23	12.08.23	13.08.23	14.08.23	15.08.23	16.08.23	17.08.23	18.08.23	19.08.23	20.08.23	21.08.23	22.08.23	23.08.23	24.08.23	25.08.23	26.08.23	27.08.23	28.08.23	29.08.23	30.08.23	01.09.23	02.09.23	03.09.23	04.09.23	05.09.23	06.09.23	07.09.23	08.09.23	09.09.23	10.09.23	11.09.23	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23	17.09.23	18.09.23	19.09.23	20.09.23	21.09.23	22.09.23	23.09.23	24.09.23	25.09.23	26.09.23	27.09.23	28.09.23	29.09.23	30.09.23	01.10.23	02.10.23	03.10.23	04.10.23	05.10.23	06.10.23	07.10.23	08.10.23	09.10.23	10.10.23	11.10.23	12.10.23	13.10.23	14.10.23	15.10.23	16.10.23	17.10.23	18.10.23	19.10.23	20.10.23	21.10.23	22.10.23	23.10.23	24.10.23	25.10.23	26.10.23	27.10.23	28.10.23	29.10.23	30.10.23	01.11.23	02.11.23	03.11.23	04.11.23	05.11.23	06.11.23	07.11.23	08.11.23	09.11.23	10.11.23	11.11.23	12.11.23	13.11.23	14.11.23	15.11.23	16.11.23	17.11.23	18.11.23	19.11.23	20.11.23	21.11.23	22.11.23	23.11.23	24.11.23	25.11.23	26.11.23	27.11.23	28.11.23	29.11.23	30.11.23	01.12.23	02.12.23	03.12.23	04.12.23	05.12.23	06.12.23	07.12.23	08.12.23	09.12.23	10.12.23	11.12.23	12.12.23	13.12.23	14.12.23	15.12.23	16.12.23	17.12.23	18.12.23	19.12.23	20.12.23	21.12.23	22.12.23	23.12.23	24.12.23	25.12.23	26.12.23	27.12.23	28.12.23	29.12.23	30.12.23	31.12.23	01.01.24	02.01.24	03.01.24	04.01.24	05.01.24	06.01.24	07.01.24	08.01.24	09.01.24	10.01.24	11.01.24	12.01.24	13.01.24	14.01.24	15.01.24	16.01.24	17.01.24	18.01.24	19.01.24	20.01.24	21.01.24	22.01.24	23.01.24	24.01.24	25.01.24	26.01.24	27.01.24	28.01.24	29.01.24	30.01.24	31.01.24	01.02.24	02.02.24	03.02.24	04.02.24	05.02.24	06.02.24	07.02.24	08.02.24	09.02.24	10.02.24	11.02.24	12.02.24	13.02.24	14.02.24	15.02.24	16.02.24	17.02.24	18.02.24	19.02.24	20.02.24	21.02.24	22.02.24	23.02.24	24.02.24	25.02.24	26.02.24	27.02.24	28.02.24	29.02.24	30.02.24	01.03.24	02.03.24	03.03.24	04.03.24	05.03.24	06.03.24	07.03.24	08.03.24	09.03.24	10.03.24	11.03.24	12.03.24	13.03.24	14.03.24	15.03.24	16.03.24	17.03.24	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24	23.03.24	24.03.24	25.03.24	26.03.24	27.03.24	28.03.24	29.03.24	30.03.24	01.04.24	02.04.24	03.04.24	04.04.24	05.04.24	06.04.24	07.04.24	08.04.24	09.04.24	10.04.24	11.04.24	12.04.24	13.04.24	14.04.24	15.04.24	16.04.24	17.04.24	18.04.24	19.04.24	20.04.24	21.04.24	22.04.24	23.04.24	24.04.24	25.04.24	26.04.24	27.04.24	28.04.24	29.04.24	30.04.24	01.05.24	02.05.24	03.05.24	04.05.24	05.05.24	06.05.24	07.05.24	08.05.24	09.05.24	10.05.24	11.05.24	12.05.24	13.05.24	14.05.24	15.05.24	16.05.24	17.05.24	18.05.24	19.05.24	20.05.24	21.05.24	22.05.24	23.05.24	24.05.24	25.05.24	26.05.24	27.05.24	28.05.24	29.05.24	30.05.24	31.05.24	01.06.24	02.06.24	03.06.24	04.06.24	05.06.24	06.06.24	07.06.24	08.06.24	09.06.24	10.06.24	11.06.24	12.06.24	13.06.24	14.06.24	15.06.24	16.06.24	17.06.24	18.06.24	19.06.24	20.06.24	21.06.24	22.06.24	23.06.24	24.06.24	25.06.24	26.06.24	27.06.24	28.06.24	29.06.24	30.06.24	01.07.24	02.07.24	03.07.24	04.07.24	05.07.24	06.07.24	07.07.24	08.07.24	09.07.24	10.07.24	11.07.24	12.07.24	13.07.24	14.07.24	15.07.24	16.07.24	17.07.24	18.07.24	19.07.24	20.07.24	21.07.24	22.07.24	23.07.24	24.07.24	25.07.24	26.07.24	27.07.24	28.07.24	29.07.24	30.07.24	31.07.24	01.08.24	02.08.24	03.08.24	04.08.24	05.08.24	06.08.24	07.08.24	08.08.24	09.08.24	10.08.24	11.08.24	12.08.24	13.08.24	14.08.24	15.08.24	16.08.24	17.08.24	18.08.24	19.08.24	20.08.24	21.08.24	22.08.24	23.08.24	24.08.24	25.08.24	26.08.24	27.08.24	28.08.24	29.08.24	30.08.24	01.09.24	02.09.24	03.09.24	04.09.24	05.09.24	06.09.24	07.09.24	08.09.24	09.09.24	10.09.24	11.09.24	12.09.24	13.09.24	14.09.24	15.09.24	16.09.24	17.09.24	18.09.24	19.09.24	20.09.24	21.09.24	22.09.24	23.09.24	24.09.24	25.09.24	26.09.24	27.09.24	28.09.24	29.09.24	30.09.24	01.10.24	02.10.24	03.10.24	04.10.24	05.10.24	06.10.24	07.10.24	08.10.24	09.10.24	10.10.24	11.10.24	12.10.24	13.10.24	14.10.24	15.10.24	16.10.24	17.10.24	18.10.24	19.10.24	20.10.24	21.10.24	22.10.24	23.10.24	24.10.24	25.10.24	26.10.24	27.10.24	28.10.24	29.10.24	30.10.24	01.11.24	02.11.24	03.11.24	04.11.24	05.11.24	06.11.24	07.11.24	08.11.24	09.11.24	10.11.24	11.11.24	12.11.24	13.11.24	14.11.24	15.11.24	16.11.24	17.11.24	18.11.24	19.11.24	20.11.24	21.11.24	22.11.24	23.11.24	24.11.24	25.11.24	26.11.24	27.11.24	28.11.24	29.11.24	30.11.24	01.12.24	02.12.24	03.12.24	04.12.24	05.12.24	06.12.24	07.12.24	08.12.24	09.12.24	10.12.24	11.12.24	12.12.24	13.12.24	14.12.24	15.12.24	16.12.24	17.12.24	18.12.24	19.12.24	20.12.24	21.12.24	22.12.24	23.12.24	24.12.24	25.12.24	26.12.24	27.12.24	28.12.24	29.12.24	30.12.24	31.12.24	01.01.25	02.01.25	03.01.25	04.01.25	05.01.25	06.01.25	07.01.25	08.01.25	09.01.25	10.01.25	11.01.25	12.01.25	13.01.25	14.01.25	15.01.25	16.01.25	17.01.25	18.01.25	19.01.25	20.01.25	21.01.25	22.01.25	23.01.25	24.01.25	25.01.25	26.01.25	27.01.25	28.01.25	29.01.25	30.01.25	31.01.25	01.02.25	02.02.25	03.02.25	04.02.25	05.02.25	06.02.25	07.02.25	08.02.25	09.02.25	10.02.25	11.02.25	12.02.25	13.02.25	14.02.25	15.02.25	16.02.25	17.02.25	18.02.25	19.02.25	20.02.25	21.02.25	22.02.25	23.02.25	24.02.25	25.02.25	26.02.25	27.02.25	28.02.25	29.02.25	30.02.25	01.03.25	02.03.25	03.03.25	04.03.25	05.03.25	06.03.25	07.03.25	08.03.25	09.03.25	10.03.25	11.03.25	12.03.25	13.03.25	14.03.25	15.03.25	16.03.25	17.03.25	18.03.25	19.03.25	20.03.25	21.03.25	22.03.25	23.03.25	24.03.25	25.03.25	26.03.25	27.03.25	28.03.25	29.03.25	30.03.25	31.03.25	01.04.25	02.04.25	03.04.25	04.04.25	05.04.25	06.04.25	07.04.25	08.04.25	09.04.25	10.04.25	11.04.25	12.04.25	13.04.25	14.04.25	15.04.25</
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FOUNDATION STRATEGY KEYPLAN
(NOT TO SCALE)

LEGEND

DENOTES PLOTS WHERE THE DEPTH OF FOUNDATIONS ARE WITHIN THE ASSUMED EXCAVATION DEPTH LIMITS (TRADITIONAL FOUNDATIONS). TRENCH FOOTING ARE TO BE FORMED ON COMPETENT STRATA TO THE MINIMUM FORMATION LEVEL INDICATED. EXPECTED TO BE FIRM CLAY, TO ACHIEVE A MINIMUM BEARING CAPACITY OF 100kN/m². FOOTINGS MAY NEED TO BE LOCALLY DEEPEENED IF DEEMED NECESSARY ON SITE DURING EXCAVATION FOLLOWING INSPECTION OF FORMATION BY THE CONTRACTOR'S SITE ENGINEER TO THE SATISFACTION OF THE BUILDING INSPECTOR.

DENOTES PLOTS WHERE THE DEPTH OF FOUNDATIONS ARE NOT WITHIN THE ASSUMED EXCAVATION LIMITS (REQUIRES VIBRO-COMPACTON).

DENOTES PLOTS WHERE ALL DESSICATED CLAY WITHIN THE INFLUENCE DEPTH OF ADJACENT TREES (REFER TO SCHEDULE FOR DEPTH) HAS BEEN LOCALLY REMOVED AND REPLACED WITH ENGINEERED GRANULAR FILL. PLACED AND COMPACTED TO THE SPECIFICATION DICTATED BY THE VIBRO-IMPROVEMENT SPECIALIST IN ORDER TO PROVIDE SUITABLE MATERIAL FOR GROUND IMPROVEMENT.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX
CONSTRUCTION RISKS

- CARE MUST BE TAKEN DURING EXCAVATION WORKS & THESE MUST BE CAREFULLY PHASED TO ENSURE THE STABILITY OF THE EXISTING BUILDING ELEMENTS WHICH ARE TO BE RETAINED & TO AVOID DAMAGE TO EXISTING STRUCTURE, UNDERGROUND SERVICES AND FEATURES. FOUNDATIONS SHALL BEAR ON FIRM VIRGIN STRATA WHICH MAY VARY WITH DEPTH DUE TO FORMER STRUCTURES, BACK-FILLING OR NATURAL VARIABILITY. REFERENCE SHALL BE MADE TO GROUND INVESTIGATION INFORMATION.
- EXISTING SERVICES OCCUR WITHIN THE AREAS DESIGNATED FOR THE INTRODUCTION OF NEW FOUNDATIONS. THE CONTRACTOR SHALL MAKE REFERENCE TO ALL EXISTING SERVICES RECORDS & INFORMATION PROVIDED BY THE CLIENT.
- THE CONTRACTOR SHALL ALSO MAKE ALLOWANCE FOR CAT SCANNING THE WORK AREA TO IDENTIFY THE PRESENCE OF ANY UNRECORDED SERVICES.
- VARYING THICKNESS OF MADE GROUND IS PRESENT ACROSS THE SITE. EXCAVATIONS INTO WHICH MAY PROVE DIFFICULT. TEMPORARY MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EXCAVATIONS - REFER TO SITE INVESTIGATION REPORT.

MAINTENANCE / CLEANING RISKS

DEMOLITION / ADAPTATION RISKS

- BUILDINGS ARE OF TIMBER FRAMED CONSTRUCTION & ACCORDINGLY IT MUST BE ASSUMED THAT WALLS MAY BE LOAD BEARING. THEREFORE REQUIRE AN ASSESSMENT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO THE PROPOSAL OF ANY ALTERATIONS OR PARTIAL DEMOLITION.
- CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT UNDERMINING OF ANY RETAINED ADJACENT STRUCTURE DOES NOT OCCUR.

In addition to the hazards / risks normally associated with the type of work detailed on this drawing - the contractor is to take note of the the above & also the hazards identified in the risk assessment document.
It is assumed that all works detailed on this drawing will be performed by a competent contractor working, where appropriate, to an approved method statement

- GENERAL NOTES**
- ALL STRUCTURAL ENGINEERING DRAWINGS ARE TO BE READ WITH ALL RELEVANT ARCHITECTS' AND SERVICE ENGINEERS' DRAWINGS AND SPECIFICATIONS.
 - DO NOT SCALE FROM ANY CLANCY DRAWING, IN EITHER PAPER OR DIGITAL FORM. USE WRITTEN DIMENSIONS ONLY. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
 - ALL WATER / DAMP PROOFING OR TANKING WORKS ARE TO BE TO THE ARCHITECTS' DETAILS. WHERE THE STRUCTURAL DRAWINGS SHOW WATERPROOF OR DAMP PROOF MEMBRANES OR TANKING, THEY ARE SIMPLY INTENDED TO INDICATE THEIR POSITION IN RELATION TO THE STRUCTURE. THE MEMBRANES HAVE BEEN DESIGNED, SPECIFIED, AND DETAILED BY THE ARCHITECT OR THE MANUFACTURER AND ARE TO BE INSTALLED AS SHOWN ON THEIR DRAWINGS.
 - WHERE THE STRUCTURAL DRAWINGS SHOW GAS PROTECTIVE MEASURES, THEY ARE SIMPLY INTENDED TO INDICATE THEIR POSITION IN RELATION TO THE STRUCTURE. ALL FIRE PROTECTION IS TO THE ARCHITECT'S DETAILS UNLESS SPECIFICALLY NOTED OTHERWISE.
 - ALL FLOOR SEPARATION AND ACOUSTIC ISOLATION DETAILS TO THE ARCHITECT'S SPECIFICATION.
 - ALL EXTERNAL FINISHES, LANDSCAPING, PAVING ETC. TO THE LANDSCAPE ARCHITECT'S DETAILS.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF ALL NECESSARY TEMPORARY WORKS TO ENSURE THE STRENGTH, STABILITY, AND INTEGRITY OF THE BUILDING AND ANY ADJOINING BUILDINGS OR STRUCTURES THROUGHOUT THE COURSE OF THE WORKS.

- THE RESULTS OF THE FOUNDATION TYPE ANALYSIS ARE BASED OFF THE FOLLOWING SOURCE MATERIAL:
- 11591 Rev E Phase II Geo-Environmental Assessment Report November 2023
 - P.1778.22 Ascerta Arboricultural Impact Assessment Dec'22
 - P.1778.22.01D TS_02D TODPD
 - 30571_8_1_ To 30571_8_5 External Works Layout INCLUSIVE
- THE RESULTS OF THE FOUNDATION TYPE ANALYSIS ARE BASED OFF THE FOLLOWING ASSUMPTIONS:
- THE CHANGE IN LEVELS OF SIMILAR STRATA BETWEEN WINDOW SAMPLES FROM THE "Phase II Geo-Environmental Assessment Report" BY BROWNFIELD ARE LINEAR AND SUITABLE FOR INTERPOLATION.
 - THE RELATIVE LEVELS AND RELATIONSHIPS INDICATED IN DRAWING 21659-CCL-XX-FN-DR-S-026 ARE CORRECT AND ACCEPTABLE.
 - THE LIMITING DEPTH OF EXCAVATION IS 2m.
 - THERE ARE NO BELOW GROUND SERVICES INFLUENCING THE DESIGN.

FUTURE PLANTING OF TREES AND SHRUBS

THE MINIMUM DEPTH OF TRADITIONAL TRENCH FOOTINGS HAS BEEN TAKEN AS 0.9M BELOW PROPOSED EXTERNAL GROUND LEVEL OF THE PLOT IN ACCORDANCE WITH NHBC CHAPTER 4.2 FOR COHESIVE SOILS OF MEDIUM VOLUME CHANGE POTENTIAL. THE CONTRACTOR & DEVELOPER ARE REQUIRED TO AGREE THE PLANTING SCHEDULE WITH THE LOCAL AUTHORITY PLANNING DEPARTMENT & WARRANTY PROVIDER SUCH THAT THE REQUIREMENTS FOLLOWING NHBC CHAPTER 4.2 TABLES 4 AND 5 ARE MET IN FULL IN RESPECT OF PLANNED PLANTING TO ALLOW THE ADOPTION OF AFOREMENTIONED VALUES FOR MINIMUM FOUNDATION DEPTH.

C03	03.06.24	REVISED AS CLOUDED	LC	ST	CB
C02	14.05.24	UPDATED AS CLOUDED	LC	JP	CB
C01	24.04.24	CONSTRUCTION ISSUE	LC	JP	CB
P01	28.03.24	PRELIMINARY ISSUE	LC	JP	CB
Rev	Date	Description	By	Check	App

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Client	KELLEN HOMES LTD				
Project	MOUNT ROAD, GORTON, MANCHESTER				
Office	MANCHESTER				
Discipline	STRUCTURAL				
Title	FOUNDATION STRATEGY KEYPLAN				
Scale @ A1		As indicated		Status	
				PRELIMINARY	



Job Number	Originator	Building/Zone	Level
21659	CCL	XX	FN
Type	Discipline	Drawing No.	Revision
DR	S	027	C03



THE PROPERTIES INDICATED AS BLUE ON THIS PLAN ARE THOSE WHICH ARE AFFECTED BY THE INFLUENCE OF TREES WITHIN COHESIVE MATERIAL. THE CLIENT'S PREFERRED PHILOSOPHY FOR THESE BLOCKS IS TO REMOVE THE DESICCATED MATERIAL TO THE DEPTH OF INFLUENCE AS DICTATED BY THE NBHC CHAPTER 4.2 AND UPGILL TO WORKING PLATFORM LEVEL (PROPOSED 1425mm) WITH THE REMAINING MATERIAL TO BE LEFT IN PLACE. INFILL MATERIAL MUST BE INSTALLED TO THE SPECIFICATION, FINISHES & COMPACTION REQUIREMENTS OF THE VIBRO IMPROVEMENT SPECIALIST DESIGNER FOR THE AFFECTED BLOCKS TO ACHIEVE THE PERFORMANCE CRITERIA SHOWN ON DRAWINGS.

RL DENOTES THE LEVEL TO WHICH ALL MATERIAL IS REMOVED AND REPLACED TO THE SPECIFICATION DICTATED BY THE VIBRO-IMPROVEMENT SPECIALIST IN ORDER TO PROVIDE SUITABLE MATERIAL FOR GROUND IMPROVEMENT.

In addition to the hazards / risks normally associated with the type of work detailed on this drawing - the contractor is to take note of the the above & also the hazards identified in the risk assessment document.

It is assumed that all works detailed on this drawing will be performed by a competent contractor working, where appropriate, to an approved method statement

Job Number	Originator	Building/Zone	Level
21659	CCL	XX	FN
Type	Discipline	Drawing No.	Revision
DR	S	030	C02

THE MINIMUM DEPTH OF TRADITIONAL TRENCH FOOTINGS HAS BEEN TAKEN AS 0.9M BELOW PROPOSED EXTERNAL GROUND LEVEL OF THE PLOT IN ACCORDANCE WITH NHBC CHAPTER 4.2 FOR COHESIVE SOILS OF MEDIUM VOLUME CHANGE POTENTIAL. THE CONTRACTOR & DEVELOPER ARE REQUIRED TO AGREE THE PLANTING SCHEDULE WITH THE LOCAL AUTHORITY PLANNING DEPARTMENT & WARRANTY PROVIDER SUCH THAT THE REQUIREMENTS FOLLOWING NHBC CHAPTER 4.2 TABLES 4 AND 5 ARE MET IN FULL IN RESPECT OF PLANNED PLANTING TO ALLOW THE ADOPTION OF AFOREMENTIONED VALUES FOR MINIMUM FOUNDATION DEPTH.



Formation Surface Properties

Settings used when creating a new formation surface.

Design Items Included

- ☒ All Items
 - ☒ Building Pads
 - ☐ Drainage Trenches
 - ☒ Earthworks
 - ☒ Paths and Driveways
 - ☐ Plot Boundaries
 - ☒ Roads and Attached Footways
 - ☒ Roundabouts

Construction Depth Below Design Surfaces

Default Depth for Roads :	0.7m
Default Depth for Footways :	0.2m
Topsoil Backfill Depth :	0.6m
Building Pad Depth :	0.825m
Earthworks Depth :	0.6m
Interfacing Depth :	0.6m
Roundabout Inner Island Depth :	0.2m

Height Bands	Cut Volume	Fill Volume
█ Fill 1.75m - 2m	--	--
█ Fill 1.5m - 1.75m	--	--
█ Fill 1.25m - 1.5m	--	--
█ Fill 1m - 1.25m	--	5.54m³
█ Fill 0.75m - 1m	--	67.48m³
█ Fill 0.5m - 0.75m	--	452.63m³
█ Fill 0.25m - 0.5m	--	2150.14m³
█ Fill 0m - 0.25m	--	5733.81m³
█ Cut 0m - 0.25m	6659.86m³	--
█ Cut 0.25m - 0.5m	1834.93m³	--
█ Cut 0.5m - 0.75m	366.68m³	--
█ Cut 0.75m - 1m	58.15m³	--
█ Cut 1m - 1.25m	1.81m³	--
█ Cut 1.25m - 1.5m	0.00m³	--
█ Cut 1.5m - 1.75m	--	--
█ Cut 1.75m - 2m	--	--
Total Cut: 8921.42m³		
Total Fill: 8409.59m³		

Existing Model = Topo -250mm
Proposed Model = Formation Level (see above depths)

Revision	Date	Amendment	Initials

Development	
Mount Road	
Location	
Manchester	
Marketing Name	
-	
Drawing Title	
Cut and Fill - Houses	
Job No.	Drawing No.
KH008	604-1
Revision	Scale (3:4)
=	1:500
Drawn By	Date
ASB	04.11.2022
Checked by	Date Checked
=	=

1st Floor, 103 Dalton Avenue, Birchwood Park,
Warrington WA3 6YE
T: 01925 363108 W: www.kellenhomes.com

 **KELLEN**
HOMES



Formation Surface Properties

Settings used when creating a new formation surface.

Design Items Included

- Building Pads
- Drainage Trenches
- Earthworks
- Paths and Driveways
- Plot Boundaries
- Roads and Attached Footways
- Roundabouts

Construction Depth Below Design Surfaces

- Default Depth for Roads: 0.7m
- Default Depth for Footways: 0.2m
- Topsoil Backfill Depth: 0.6m
- Building Pad Depth: 0.825m
- Earthworks Depth: 0.6m
- Interfacing Depth: 0.6m
- Roundabout Inner Island Depth: 0.2m

Height Bands

Cut Volume

Fill Volume

Fill 1.75m - 2m	--	--
Fill 1.5m - 1.75m	--	12.58m³
Fill 1.25m - 1.5m	--	296.09m³
Fill 1m - 1.25m	--	926.38m³
Fill 0.75m - 1m	--	1906.93m³
Fill 0.5m - 0.75m	--	2804.42m³
Fill 0.25m - 0.5m	--	3570.89m³
Fill 0m - 0.25m	--	--
Cut 0m - 0.25m	113.40m³	--
Cut 0.25m - 0.5m	18.54m³	--
Cut 0.5m - 0.75m	0.57m³	--
Cut 0.75m - 1m	--	--
Cut 1m - 1.25m	--	--
Total Cut: 132.51m³		
Total Fill: 9522.37m³		

Existing Model = Topo
Proposed Model = Formation Level (see above depths)

Notes:
1. Consult with the relevant authorities for any necessary permissions.
2. The information on this drawing is for informational purposes only and should not be used for any other purpose without the written consent of the relevant authorities.
3. The information on this drawing is for informational purposes only and should not be used for any other purpose without the written consent of the relevant authorities.
4. The information on this drawing is for informational purposes only and should not be used for any other purpose without the written consent of the relevant authorities.
5. The information on this drawing is for informational purposes only and should not be used for any other purpose without the written consent of the relevant authorities.

Revision

1	04.05.2023	Updated to latest Planning Layout	ASB
2	03.04.2024	Updated to latest Planning Layout	ASB

Project Information

Location	Manchester
Planning Name	
Drawing Title	Cut and Fill - Pitches
Project No.	604-2
Revision	1:500
Drawn By	ASB
Checked By	04.11.2022

Contact

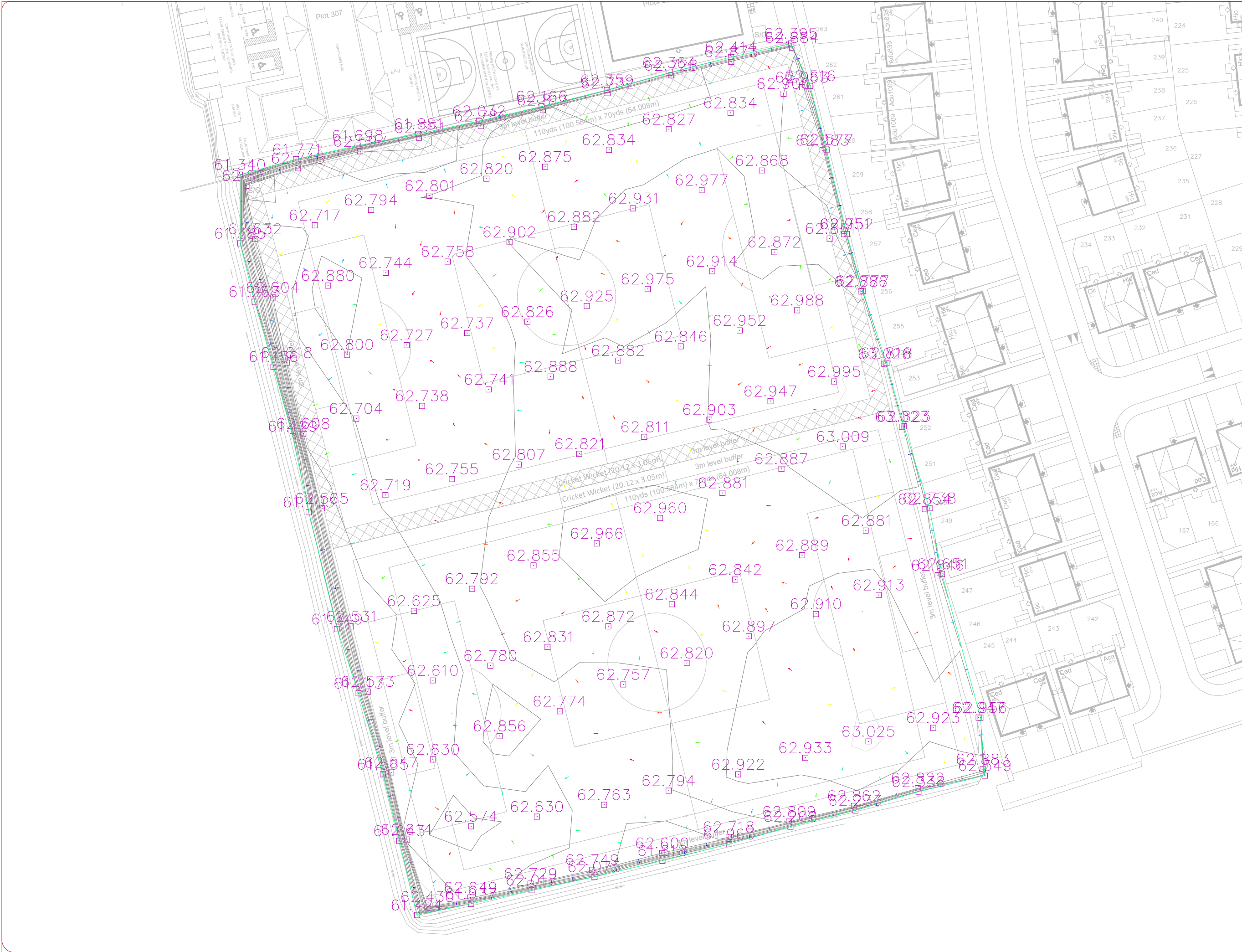
1st Floor, 103 Dalton Avenue, Birchwood Park, Warrington WA3 6YE
T: 01925 363108 W: www.kellenhomes.com

K

H

KELEN

HOMES



CLIENT

Kellen Homes

PROJECT TITLE

Mount Road, Gorton

DRAWING DETAIL

Football Pitch Finished Survey

PROJECT ENGINEER

DATE

09-Apr-25

DRAWN

KRM

SCALE

Shown @ A3

DRAWING NUMBER

REVISION



-  Indicates Keilen Land
-  Indicates Great Places
-  Indicates Sigma Land
-  Indicates Youthfed Land

Development	
MOUNT_ROAD	
Location	
GORTON	
Marketing Name	
Drawing Title	
LEGAL_OWNERSHIP_PLAN	
Job No.	Drawing No.
KH007	A-517
Revision	Scale @ AO
B	1:500
Drawn By	Date
BOP	26.02.24
Checked by	Date Checked
RGK	

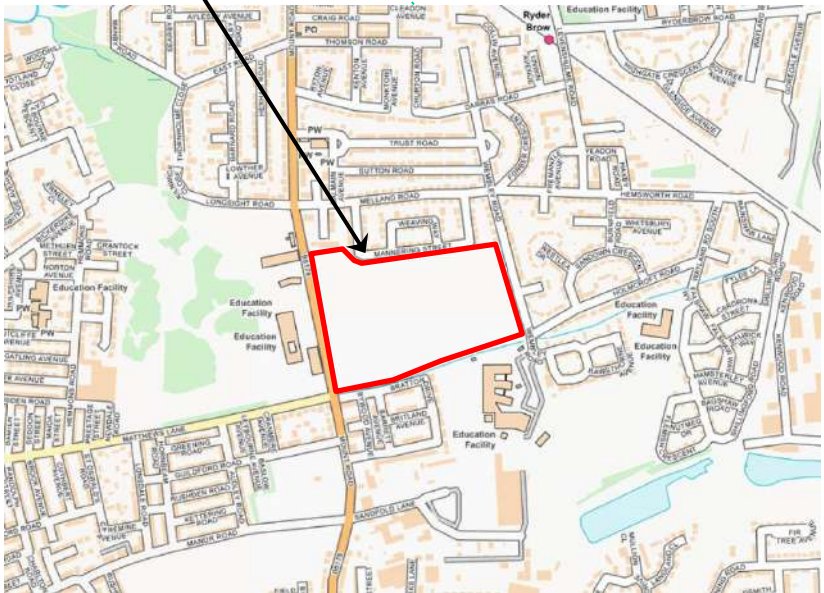




SITE LOCATION

NEAREST POSTCODE: M18 7SU

SITE ENTRANCE WHAT3WORDS:
///DASH.HAVING.TABLES



REV	DATE	DESCRIPTION	BY	CKD
<div><div>BROWNFIELD SOLUTIONS LTD <small>OLD ENVIRONMENTAL ENGINEERING EXCELLENCE</small></div></div>				
CLIENT KELLEN HOMES LTD				
PROJECT TITLE MOUNT ROAD, GORTON				
DRAWING TITLE SITE LOCATION PLAN				
DRAWING No. C5150/01		REVISION -	SCALE NTS	DATE 20/09/22
DRAWN BY SD			CHECKED BY LC	



HARDSTANDING
CAR PARK AREA

DRIED UP POND

HARDSTANDING
FORMER BUILDING
FOOTPRINT

SOFT LANDSCAPING
NO NOTABLE FEATURES

SITE ACCESS



KEY

— APPROXIMATE SITE BOUNDARY

REV	DATE	DESCRIPTION	BY	CKD



CLIENT
KELLEN HOMES LTD

PROJECT TITLE
MOUNT ROAD, GORTON

DRAWING TITLE
SITE FEATURES PLAN

DRAWING No.	REVISION	SCALE	DATE
C5150/02	-	NTS	19/10/22
DRAWN BY	CHECKED BY		
MS	LC		



KEY	
	APPROXIMATE SITE BOUNDARY
	TRIAL PIT
	WINDOW SAMPLE BOREHOLE
	LWD
	SOAKAWAY INFILTRATION TEST
	BOREHOLE INSTALLATION
	MADE GROUND TOPSOIL SAMPLE IDENTIFIED AS HAZARDOUS FOR OFF SITE DISPOSAL PURPOSES

NB: SYMBOL FOR LOCATIONS HIGHLIGHTED AS HAZARDOUS DOES NOT INDICATE LATERAL EXTENT OF HAZARDOUS MATERIAL - THERE MAY BE NO VISUAL DIFFERENCE IN SUCH MATERIALS.

- NOTES
- ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCING WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT & ENGINEER FOR VERIFICATION. FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS REPORTS. THIS DRAWING IS COPYRIGHT OF BSL.
 - DRAWING NOT FOR CONSTRUCTION PURPOSES.

REV	DATE	DESCRIPTION	BY	CKD
B	05/06/23	FINAL LOCATIONS BASED ON SURVEYED CO-ORDS.	MB	AJS



PROJECT TITLE
MOUNT ROAD, GORTON

DRAWING TITLE
EXPLORATORY HOLE PLAN

DRAWING No.	REVISION	SCALE	DATE
C5150/03A&B	B	NTS	05/06/2023
DRAWN BY MB		CHECKED BY AJS	

NB NOT TO SCALE

KEY

Blue For Source

Red For Pathway

Green For Receptor



Potential
Contaminant
Transport

Potential ponds (Off site)

Clay pit 100m W

Landfills >37m W and >244m NW

None considered to be potential viable sources in respect to controlled waters

Importation of "clean" chemically tested water retaining soft landscaping soils and general fill - compliant with Remedial Strategy

Plant - hydrocarbons,
oils and lubricants
(minor volumes
during construction)

Possible culverted stream (Unlikely to exist)

Shallow foundations or vibro
likely - overall integrity of low
permeability superficial clays
maintained \

New drainage system

Infiltration decreased
due to development
and increased hard
surfacing

No infilled ponds identified on site

Made ground
Non-mobile soil
contaminants

Secondary Undifferentiated Aquifer

- Superficial deposits likely to be at 20+m thick based on BGS boreholes - no viable pathway

Downward and lateral migration of contaminants impeded by clay - low/negligible permeability of soils has been demonstrated

Downward and lateral migration of contaminants impeded by clay - low/negligible permeability of soils has been demonstrated

Potential for sewer leakage (considered unlikely and low volumes, if any, quickly reported and repaired on a residential estate)

NOTES

1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCING WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT & ENGINEER FOR VERIFICATION. FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS REPORTS. THIS DRAWING IS COPYRIGHT OF BSL.
3. DRAWING NOT FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	BY	CKD
A	21/02/24	UPDATE FOLLOWING CLIENT FEEDBACK	KB	AJS



**BROWNFIELD
SOLUTIONS LTD**

CLIENT



PROJECT TITLE

MOUNT ROAD, GORTON

DRAWING TITLE

CONCEPTUAL SITE MODEL - CONTROLLED WATERS

DRAWING No. C5150/04	REVISION A	SCALE NTS	DATE 02/01/24
DRAWN BY AS		CHECKED BY TM	

APPENDIX A

Chemical Testing Results



Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Stockpile Ref.			Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil
						CS01	CS02	CS03	CS04	CS05	CS06	CS07	CS08	CS09	CS2501	CS2502	CS2503
						1	1	1	25	25	25	25	25	25	25	25	25
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC												
Moisture Content	-	42	8.30	21.00	-	16.0	15.0	14.0	14.0	13.0	11.0	8.3	17.0	13.0	19.0	19.0	20
Soil Organic Matter	-	42	1.00	8.30	-	8.1	7.9	8.3	7.9	8.1	8.0	7.5	6.8	7.4	1.8	1.6	1.5
pH	-	42	1.00	8.60	-	1.6	1.3	1.4	1.3	1.1	1.2	1.0	1.6	1.3	8.1	8.3	7.8
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	42	25.90	519.00	-	119.0	200.0	142.0	197.0	108.0	266.0	519.0	274.0	165.0	92.2	28.5	36.9
Arsenic	37	42	6.10	15.00	0	12.0	8.7	7.2	9.6	7.9	8.2	7.0	10.0	7.9	14.0	9.6	13.0
Cadmium	11	42	< LOD	0.50	0	0.30	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (III)	910	42	21.00	34.00	0	29.00	29.00	28.00	29.00	26.00	23.00	24.00	25.00	22.00	31.0	31.0	33.0
Hexavalent Chromium (VI)	6	42	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	42	15.00	150.00	0	25.00	23.00	22.00	22.00	21.00	21.00	19.00	26.00	15.00	65.0	28.0	71.0
Lead	200	42	11.00	81.00	0	24.00	14.00	11.00	14.00	13.00	14.00	12.00	38.00	20.00	81.0	21.0	39.0
Mercury	1.2	42	< LOD	<LOD	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	130	42	17.00	45.00	0	32.00	35.00	32.00	36.00	30.00	28.00	29.00	23.00	17.00	35.0	39.0	24.0
Selenium	250	42	< LOD	1.80	0	1.80	1.40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0
Zinc	3700	42	40.00	110.00	0	63.00	53.00	61.00	57.00	50.00	54.00	54.00	64.00	43.00	110.0	69.0	73.0
Naphthalene	5.6	42	< LOD	1.40	0	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.19	< 0.05	0.07
Acenaphthylene	420	42	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	510	42	< LOD	0.94	0	0.17	< 0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.45	0.06	0.94	0.08	0.60
Fluorene	400	42	< LOD	0.61	0	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.31	< 0.05	0.55	< 0.05	0.30
Phenanthrene	220	42	< LOD	5.40	0	1.40	0.19	0.23	< 0.05	0.16	0.38	0.20	3.30	0.37	5.40	0.47	3.60
Anthracene	5400	42	< LOD	1.30	0	0.28	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.77	0.08	1.30	0.10	0.89
Fluoranthene	560	42	< LOD	6.80	0	2.20	0.33	0.24	< 0.05	0.15	0.41	0.24	4.90	0.75	6.80	0.85	6.40
Pyrene	1200	42	< LOD	6.00	0	2.00	0.33	0.23	< 0.05	0.12	0.37	0.23	4.40	0.70	6.00	0.76	5.80
Benzo(a)anthracene	11	42	< LOD	2.80	0	0.80	0.15	0.10	< 0.05	0.06	0.18	0.09	1.90	0.34	2.80	0.39	2.40
Chrysene	22	42	< LOD	3.00	0	0.98	0.12	0.12	< 0.05	0.05	0.17	0.12	2.00	0.34	3.00	0.42	2.80
Benzo(b)fluoranthene	3.3	42	< LOD	3.20	0	1.00	0.15	0.11	< 0.05	< 0.05	0.15	< 0.05	2.20	0.34	3.20	0.53	3.10
Benzo(k)fluoranthene	93	42	< LOD	1.20	0	0.39	< 0.05	0.05	< 0.05	< 0.05	0.08	< 0.05	0.77	0.15	1.20	0.16	1.10
Benzo(a)pyrene	3.0	42	< LOD	2.80	0	0.91	< 0.05	0.10	< 0.05	< 0.05	0.16	0.09	2.00	0.33	2.80	0.39	2.60
Indeno(1,2,3-cd)pyrene	36	42	< LOD	1.30	0	0.47	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05	1.10	0.17	1.30	0.20	1.10
Dibenz(a,h)anthracene	0.28	42	< LOD	0.22	0	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.20	< 0.05	0.22
Benzo(ghi)perylene	340	42	< LOD	1.30	0	0.48	< 0.05	< 0.05	< 0.05	< 0.05	0.13	< 0.05	1.10	0.19	1.30	0.22	1.30
Asbestos Detected (Detected or Not-Detected)	Y	42	0.00	0.00	0	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Petroleum Hydrocarbons Aliphatic >EC5-EC6	78	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC6-EC8	230	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC8-EC10	65	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC10-EC12	330	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aliphatic >EC12-EC16	2400	42	< LOD	<LOD	0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons Aliphatic >EC16-EC35	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aliphatic >EC35-EC40	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC5-EC7	140	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC7-EC8	290	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC8-EC10	83	42	< LOD	<LOD	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Petroleum Hydrocarbons Aromatic >EC10-EC12	180	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aromatic >EC12-EC16	330	42	< LOD	4.40	0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3	< 2.0	2.5	< 2.0	< 2.0
Petroleum Hydrocarbons Aromatic >EC16-EC21	540	42	< LOD	13.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11.0	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC21-EC35	1500	42	< LOD	23.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18.0	< 10	11.0
Petroleum Hydrocarbons Aromatic >EC35-EC40	1500	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	0.17	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	290	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl benzene	110	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	140	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
m- & p-Xylene	270	42	< LOD	<LOD	0	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.005	< 0.005
MTBE	84	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mean Average SOM			2.9														
Mean Average pH			6.6														
Residential with Homegrown Produce 2.5% SOM Job Number: C5150 Client: KELLEN HOMES Site: MOUNT ROAD, GORTON Soil Group Type NATURAL						Values in RED are > the relevant screening levels and further assessment is required. Exceedance of the screening levels alone may not mean a risk is posed.											



Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Stockpile Ref.			Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil
						CS2504	CS2505	CS2506	CS2507	CS2508	CS2509	CS2510	CS2511	CS2512	CS2513
						25	25	25	25	25	25	25	25	25	25
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC										
Moisture Content	-	42	8.30	21.00	-	21	14	13	15	15	14	17	16	16	18
Soil Organic Matter	-	42	1.00	8.30	-	1.3	1.6	1.6	1.6	2.1	1.6	1.5	1.5	1.5	1.5
pH	-	42	1.00	8.60	-	7.6	8.5	7.9	7.9	6.9	8.2	8.2	8.2	8.5	8.1
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	42	25.90	519.00	-	34.9	118.0	114.0	125.0	120.0	102.0	26.9	99.0	83.8	110.0
Arsenic	37	42	6.10	15.00	0	9.7	10.0	9.6	9.4	12.0	7.8	10.0	8.0	7.5	9.4
Cadmium	11	42	< LOD	0.50	0	< 0.2	0.2	< 0.2	< 0.2	0.3	0.5	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (III)	910	42	21.00	34.00	0	32.0	27.0	23.0	26.0	26.0	24.0	29.0	23.0	26.0	32.0
Hexavalent Chromium (VI)	6	42	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	42	15.00	150.00	0	55.0	33.0	29.0	29.0	40.0	25.0	34.0	23.0	26.0	30.0
Lead	200	42	11.00	81.00	0	35.0	24.0	34.0	24.0	36.0	19.0	23.0	20.0	54.0	24.0
Mercury	1.2	42	< LOD	<LOD	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	130	42	17.00	45.00	0	31.0	29.0	26.0	28.0	31.0	27.0	34.0	26.0	27.0	33.0
Selenium	250	42	< LOD	1.80	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	3700	42	40.00	110.00	0	67.0	73.0	62.0	61.0	72.0	63.0	68.0	53.0	63.0	63.0
Naphthalene	5.6	42	< LOD	1.40	0	0.08	< 0.05	1.40	< 0.05	0.05	< 0.05	0.05	0.05	< 0.05	< 0.05
Acenaphthylene	420	42	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	510	42	< LOD	0.94	0	0.52	0.26	0.88	0.20	0.37	< 0.05	0.25	0.26	< 0.05	0.08
Fluorene	400	42	< LOD	0.61	0	0.29	0.17	0.61	0.11	0.23	< 0.05	0.13	0.15	< 0.05	< 0.05
Phenanthrene	220	42	< LOD	5.40	0	3.40	1.70	4.70	1.30	2.80	0.31	1.30	1.40	0.28	0.59
Anthracene	5400	42	< LOD	1.30	0	0.79	0.38	1.10	0.27	0.66	0.05	0.24	0.30	0.06	0.12
Fluoranthene	560	42	< LOD	6.80	0	5.30	2.20	4.80	1.90	4.00	0.49	1.50	1.80	0.45	0.93
Pyrene	1200	42	< LOD	6.00	0	4.70	2.10	4.40	1.70	3.60	0.46	1.30	1.70	0.41	0.86
Benzo(a)anthracene	11	42	< LOD	2.80	0	2.20	0.96	1.90	0.77	1.50	0.23	0.60	0.70	0.20	0.44
Chrysene	22	42	< LOD	3.00	0	2.30	0.99	2.10	0.87	1.60	0.25	0.66	0.91	0.24	0.42
Benzo(b)fluoranthene	3.3	42	< LOD	3.20	0	2.30	1.10	2.20	0.78	1.80	0.27	0.61	0.87	0.23	0.46
Benzo(k)fluoranthene	93	42	< LOD	1.20	0	1.10	0.36	0.74	0.45	0.55	0.13	0.29	0.36	0.10	0.17
Benzo(a)pyrene	3.0	42	< LOD	2.80	0	2.10	0.92	2.00	0.74	1.40	0.22	0.55	0.78	0.20	0.37
Indeno(1,2,3-cd)pyrene	36	42	< LOD	1.30	0	0.93	0.44	0.87	0.40	0.68	0.12	0.27	0.38	0.09	0.16
Dibenz(a,h)anthracene	0.28	42	< LOD	0.22	0	0.17	0.07	0.14	0.07	0.15	< 0.05	< 0.05	0.06	< 0.05	< 0.05
Benzo(ghi)perylene	340	42	< LOD	1.30	0	1.00	0.48	0.94	0.41	0.77	0.11	0.25	0.37	0.11	0.19
Asbestos Detected (Detected or Not-Detected)	Y	42	0.00	0.00	0	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Petroleum Hydrocarbons Aliphatic >EC5-EC6	78	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC6-EC8	230	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC8-EC10	65	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC10-EC12	330	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aliphatic >EC12-EC16	2400	42	< LOD	<LOD	0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons Aliphatic >EC16-EC35	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aliphatic >EC35-EC40	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC5-EC7	140	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC7-EC8	290	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC8-EC10	83	42	< LOD	<LOD	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Petroleum Hydrocarbons Aromatic >EC10-EC12	180	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aromatic >EC12-EC16	330	42	< LOD	4.40	0	< 2.0	< 2.0	2.0	< 2.0	3.0	< 2.0	< 2.0	< 2.0	< 2.0	2.4
Petroleum Hydrocarbons Aromatic >EC16-EC21	540	42	< LOD	13.00	0	13.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC21-EC35	1500	42	< LOD	23.00	0	23.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC35-EC40	1500	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	0.17	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	290	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl benzene	110	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	140	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
m- & p-Xylene	270	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE	84	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mean Average SOM 2.9															
Mean Average pH 6.6															
Residential with Homegrown Produce 2.5% SOM															
Job Number: C5150															
Client: KELLEN HOMES															
Site: MOUNT ROAD, GORTON															
Soil Group Type NATURAL															



Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Stockpile Ref.			Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil
						CS2514 25	CS2515 25	CS2516 25	CS2517 25	CS2518 25	CS2519 25	CS2520 25	SP25 3.1 25	SP25 3.2 25	SP25 3.3 25	SP25 3.4 25	SP25 3.5 25
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC												
Moisture Content	-	42	8.30	21.00	-	14	17	14	14	14	21	15	13	13	11	15	12
Soil Organic Matter	-	42	1.00	8.30	-	1.5	1.4	1.7	1.6	1.5	1.0	1.2	1.7	1.3	1.6	1.6	1.7
pH	-	42	1.00	8.60	-	8.6	8.3	8.3	8.2	8.2	6.9	7.4	7.8	8.0	8.2	8.4	7.5
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	42	25.90	519.00	-	141.0	138.0	116.0	143.0	129.0	25.9	48.7	46.2	39.0	38.8	33.3	33.6
Arsenic	37	42	6.10	15.00	0	9.2	10.0	12.0	11.0	7.7	8.3	8.6	9.8	6.1	6.5	7.4	11.0
Cadmium	11	42	< LOD	0.50	0	< 0.2	< 0.2	< 0.2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (III)	910	42	21.00	34.00	0	28.0	32.0	29.0	29.0	30.0	34.0	32.0	25.0	23.0	25.0	23.0	27.0
Hexavalent Chromium (VI)	6	42	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	42	15.00	150.00	0	28.0	28.0	150.0	33.0	27.0	21.0	26.0	42.0	16.0	23.0	26.0	65.0
Lead	200	42	11.00	81.00	0	26.0	23.0	54.0	28.0	18.0	16.0	15.0	27.0	13.0	14.0	19.0	32.0
Mercury	1.2	42	< LOD	<LOD	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	130	42	17.00	45.00	0	32.0	33.0	31.0	32.0	33.0	27.0	45.0	28.0	21.0	27.0	26.0	29.0
Selenium	250	42	< LOD	1.80	0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	3700	42	40.00	110.00	0	65.0	62.0	76.0	64.0	62.0	47.0	54.0	59.0	40.0	53.0	51.0	68.0
Naphthalene	5.6	42	< LOD	1.40	0	< 0.05	0.07	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	420	42	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	510	42	< LOD	0.94	0	0.08	0.63	0.36	0.49	< 0.05	< 0.05	< 0.05	0.25	0.07	< 0.05	0.30	0.23
Fluorene	400	42	< LOD	0.61	0	< 0.05	0.39	0.19	0.28	< 0.05	< 0.05	< 0.05	0.11	< 0.05	< 0.05	0.15	< 0.05
Phenanthrene	220	42	< LOD	5.40	0	0.54	3.80	2.30	3.40	0.35	< 0.05	0.14	1.50	0.38	0.17	1.80	1.40
Anthracene	5400	42	< LOD	1.30	0	0.12	0.89	0.52	0.76	0.08	< 0.05	< 0.05	0.35	< 0.05	< 0.05	0.49	0.29
Fluoranthene	560	42	< LOD	6.80	0	0.92	4.00	3.20	4.10	0.71	< 0.05	0.21	2.40	0.49	0.19	2.70	1.90
Pyrene	1200	42	< LOD	6.00	0	0.87	3.60	2.90	3.70	0.64	< 0.05	0.20	2.10	0.46	< 0.05	2.50	1.70
Benzo(a)anthracene	11	42	< LOD	2.80	0	0.43	1.50	1.30	1.50	0.34	< 0.05	0.10	0.95	0.22	0.09	1.20	0.78
Chrysene	22	42	< LOD	3.00	0	0.43	1.50	1.40	1.60	0.35	< 0.05	0.12	1.10	0.27	0.14	1.20	0.81
Benzo(b)fluoranthene	3.3	42	< LOD	3.20	0	0.48	1.40	1.40	1.50	0.43	< 0.05	0.13	1.10	0.22	0.09	1.30	0.72
Benzo(k)fluoranthene	93	42	< LOD	1.20	0	0.16	0.55	0.71	0.61	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.57	0.41
Benzo(a)pyrene	3.0	42	< LOD	2.80	0	0.42	1.30	1.40	1.40	0.32	< 0.05	0.10	1.00	0.21	0.09	1.20	0.78
Indeno(1,2,3-cd)pyrene	36	42	< LOD	1.30	0	0.19	0.53	0.59	0.58	0.15	< 0.05	< 0.05	0.45	< 0.05	< 0.05	0.55	0.33
Dibenz(a,h)anthracene	0.28	42	< LOD	0.22	0	< 0.05	0.12	0.14	0.11	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	340	42	< LOD	1.30	0	0.22	0.57	0.69	0.63	0.17	< 0.05	< 0.05	0.58	< 0.05	< 0.05	0.69	0.43
Asbestos Detected (Detected or Not-Detected)	Y	42	0.00	0.00	0	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Petroleum Hydrocarbons Aliphatic >EC5-EC6	78	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC6-EC8	230	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC8-EC10	65	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC10-EC12	330	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aliphatic >EC12-EC16	2400	42	< LOD	<LOD	0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons Aliphatic >EC16-EC35	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aliphatic >EC35-EC40	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC5-EC7	140	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC7-EC8	290	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC8-EC10	83	42	< LOD	<LOD	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Petroleum Hydrocarbons Aromatic >EC10-EC12	180	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aromatic >EC12-EC16	330	42	< LOD	4.40	0	< 2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 3.0	< 3.0	< 3.0	< 3.0	3.3
Petroleum Hydrocarbons Aromatic >EC16-EC21	540	42	< LOD	13.00	0	< 10	< 10	11.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC21-EC35	1500	42	< LOD	23.00	0	< 10	< 10	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC35-EC40	1500	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	0.17	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	290	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl benzene	110	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	140	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
m- & p-Xylene	270	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE	84	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mean Average SOM 2.9																	
Mean Average pH 6.6																	
Residential with Homegrown Produce 2.5% SOM Job Number: C5150 Client: KELLEN HOMES Site: MOUNT ROAD, GORTON Soil Group Type NATURAL																	

Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Stockpile Ref.			Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil	Subsoil
						SP25 3.6 25	SP03 1.1 3	SP03 1.2 3	SP03 1.3 3	SP03 1.4 3	SP04 1.1 4	SP04 1.2 4	SP04 1.3 4
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC								
Moisture Content	-	42	8.30	21.00	-	17	15	17	12	17	19	15	14
Soil Organic Matter	-	42	1.00	8.30	-	1.6	2.0	1.7	1.6	1.6	1.0	1.6	1.4
pH	-	42	1.00	8.60	-	8.3	8.2	7.8	8.1	8.2	8.0	7.8	8.1
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	42	25.90	519.00	-	30.1	161.0	152.0	130.0	121.0	108.0	101.0	73.6
Arsenic	37	42	6.10	15.00	0	8.9	15.0	13.0	13.0	9.7	9.4	9.9	8.7
Cadmium	11	42	< LOD	0.50	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (III)	910	42	21.00	34.00	0	27.0	24.0	24.0	23.0	26.0	30.0	24.0	21.0
Hexavalent Chromium (VI)	6	42	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	42	15.00	150.00	0	28.0	42.0	44.0	37.0	33.0	42.0	28.0	27.0
Lead	200	42	11.00	81.00	0	24.0	53.0	71.0	43.0	24.0	18.0	49.0	28.0
Mercury	1.2	42	< LOD	<LOD	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	130	42	17.00	45.00	0	29.0	29.0	28.0	28.0	31.0	25.0	29.0	24.0
Selenium	250	42	< LOD	1.80	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	3700	42	40.00	110.00	0	71.0	83.0	90.0	88.0	84.0	50.0	62.0	54.0
Naphthalene	5.6	42	< LOD	1.40	0	< 0.05	0.13	< 0.05	0.14	< 0.05	< 0.05	0.12	0.20
Acenaphthylene	420	42	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.32
Acenaphthene	510	42	< LOD	0.94	0	0.09	0.35	0.43	0.28	0.08	0.15	0.40	0.11
Fluorene	400	42	< LOD	0.61	0	< 0.05	0.19	0.23	0.17	< 0.05	0.08	0.24	0.17
Phenanthrene	220	42	< LOD	5.40	0	0.62	2.30	3.00	1.70	0.55	0.97	2.80	0.87
Anthracene	5400	42	< LOD	1.30	0	< 0.05	0.51	0.71	0.37	< 0.05	0.20	0.68	0.32
Fluoranthene	560	42	< LOD	6.80	0	0.94	3.40	4.30	2.60	0.77	1.40	3.60	1.40
Pyrene	1200	42	< LOD	6.00	0	0.86	3.10	3.90	2.30	0.69	1.30	3.30	1.30
Benzo(a)anthracene	11	42	< LOD	2.80	0	0.37	1.30	1.70	1.10	0.30	0.52	1.40	0.76
Chrysene	22	42	< LOD	3.00	0	0.47	1.60	1.80	1.20	0.38	0.68	1.80	0.70
Benzo(b)fluoranthene	3.3	42	< LOD	3.20	0	0.44	1.60	1.90	1.30	0.36	0.59	1.50	1.10
Benzo(k)fluoranthene	93	42	< LOD	1.20	0	0.21	0.60	0.72	0.46	0.15	0.21	0.81	0.52
Benzo(a)pyrene	3.0	42	< LOD	2.80	0	0.41	1.50	1.80	1.10	0.31	0.50	1.40	1.10
Indeno(1,2,3-cd)pyrene	36	42	< LOD	1.30	0	0.22	0.67	0.78	0.57	0.14	0.23	0.61	0.61
Dibenz(a,h)anthracene	0.28	42	< LOD	0.22	0	< 0.05	0.21	0.20	0.16	< 0.05	< 0.05	0.12	0.13
Benzo(ghi)perylene	340	42	< LOD	1.30	0	0.26	0.81	0.96	0.68	< 0.05	0.26	0.70	0.71
Asbestos Detected (Detected or Not-Detected)	Y	42	0.00	0.00	0	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Petroleum Hydrocarbons Aliphatic >EC5-EC6	78	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC6-EC8	230	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC8-EC10	65	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aliphatic >EC10-EC12	330	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aliphatic >EC12-EC16	2400	42	< LOD	<LOD	0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons Aliphatic >EC16-EC35	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aliphatic >EC35-EC40	92000	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC5-EC7	140	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC7-EC8	290	42	< LOD	<LOD	0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Petroleum Hydrocarbons Aromatic >EC8-EC10	83	42	< LOD	<LOD	0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Petroleum Hydrocarbons Aromatic >EC10-EC12	180	42	< LOD	<LOD	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons Aromatic >EC12-EC16	330	42	< LOD	4.40	0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	4.4
Petroleum Hydrocarbons Aromatic >EC16-EC21	540	42	< LOD	13.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10.0
Petroleum Hydrocarbons Aromatic >EC21-EC35	1500	42	< LOD	23.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons Aromatic >EC35-EC40	1500	42	< LOD	<LOD	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	0.17	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	290	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl benzene	110	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	140	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
m- & p-Xylene	270	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE	84	42	< LOD	<LOD	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mean Average SOM 2.9													
Mean Average pH 6.6													
Residential with Homegrown Produce 2.5% SOM													
Job Number: C5150													
Client: KELLEN HOMES													
Site: MOUNT ROAD, GORTON													
Soil Group Type NATURAL													

Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Depth:			Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
						TS101	TS102	TS103	TS104	TS105	TS106	TS107	TS108
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC								
Moisture Content	-	10	7.00	13.00	-	9	13	9	8	10	7	8	10
Soil Organic Matter	-	10	2.30	3.20	-	2.6	3.1	2.5	2.9	2.9	2.8	3.0	2.6
pH	-	10	7.60	8.10	-	7.9	7.7	7.9	7.8	7.8	7.7	8.1	7.7
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	10	31.90	51.20	-	37.9	43.1	47.4	51.2	31.9	49.2	35.8	33.8
Arsenic	37	10	9.70	14.00	0	12.0	13.0	13.0	13.0	13.0	13.0	14.0	12.0
Cadmium	11	10	0.40	0.60	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Chromium (III)	910	10	22.00	28.00	0	26.0	25.0	27.0	27.0	26.0	28.0	27.0	27.0
Hexavalent Chromium (VI)	6	10	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	10	36.00	49.00	0	44.0	48.0	47.0	46.0	46.0	46.0	49.0	42.0
Lead	200	10	44.00	68.00	0	59.0	62.0	68.0	61.0	60.0	58.0	65.0	55.0
Mercury	1.2	10	< LOD	0.40	0	0.4	< 0.3	< 0.3	0.4	< 0.3	0.4	0.4	< 0.3
Nickel	130	10	19.00	24.00	0	22.0	22.0	24.0	23.0	23.0	23.0	24.0	23.0
Selenium	250	10	< LOD	1.20	0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	1.2	1.0	< 1.0
Zinc	3700	10	67.00	94.00	0	91.0	93.0	91.0	93.0	90.0	94.0	94.0	81.0
Naphthalene	5.6	10	< LOD	0.16	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	420	10	< LOD	0.06	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	510	10	< LOD	0.38	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	400	10	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	220	10	0.10	2.00	0	0.11	0.12	0.16	0.21	0.13	0.21	0.19	0.10
Anthracene	5400	10	< LOD	0.48	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	560	10	0.21	1.80	0	0.23	0.31	0.31	0.37	0.26	0.35	0.30	0.21
Pyrene	1200	10	0.19	1.60	0	0.21	0.30	0.29	0.37	0.25	0.33	0.27	0.19
Benzo(a)anthracene	11	10	0.10	0.77	0	0.12	0.16	0.15	0.19	0.12	0.16	0.14	0.10
Chrysene	22	10	0.13	0.89	0	0.14	0.19	0.19	0.23	0.16	0.21	0.18	0.13
Benzo(b)fluoranthene	3.3	10	0.15	0.98	0	0.21	0.27	0.27	0.30	0.23	0.29	0.25	0.15
Benzo(k)fluoranthene	93	10	0.06	0.35	0	0.07	0.10	0.07	0.11	0.07	0.06	0.08	0.09
Benzo(a)pyrene	2.7	10	0.12	0.79	0	0.15	0.22	0.21	0.24	0.15	0.20	0.18	0.13
Indeno(1,2,3-cd)pyrene	36	10	0.07	0.32	0	0.08	0.11	0.09	0.11	0.08	0.10	0.10	0.07
Dibenz(a,h)anthracene	0.28	10	< LOD	0.10	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	340	10	< LOD	0.38	0	0.09	0.14	0.12	0.14	< 0.05	0.13	0.12	0.09
Asbestos Detected (Detected or Not-Detected)	Y	10	0.00	0.00	0	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected
Mean Average SOM			2.8										
Mean Average pH			7.8										
			Residential with Homegrown Produce 2.5% SOM			Values in RED are > the relevant screening levels and further assessment is required. Exceedance of the screening levels alone may not mean a risk is posed.							
Job Number: C5150													
Client: Kellen Homes													
Site: Mount Road, Gorton													
Soil Group Type Topsoil													

Human Health Assessment Summary - Soils Test Data						Soil Type: Location: Depth:	Topsoil TS109	Topsoil TS110
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC			
Moisture Content	-	10	7.00	13.00	-	12	10	
Soil Organic Matter	-	10	2.30	3.20	-	2.3	3.2	
pH	-	10	7.60	8.10	-	7.6	7.7	
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	10	31.90	51.20	-	47.2	35.8	
Arsenic	37	10	9.70	14.00	0	9.7	12.0	
Cadmium	11	10	0.40	0.60	0	0.4	0.5	
Chromium (III)	910	10	22.00	28.00	0	22.0	25.0	
Hexavalent Chromium (VI)	6	10	< LOD	<LOD	0	< 1.8	< 1.8	
Copper	2400	10	36.00	49.00	0	36.0	44.0	
Lead	200	10	44.00	68.00	0	44.0	60.0	
Mercury	1.2	10	< LOD	0.40	0	< 0.3	0.3	
Nickel	130	10	19.00	24.00	0	19.0	22.0	
Selenium	250	10	< LOD	1.20	0	< 1.0	1.0	
Zinc	3700	10	67.00	94.00	0	67.0	88.0	
Naphthalene	5.6	10	< LOD	0.16	0	< 0.05	0.16	
Acenaphthylene	420	10	< LOD	0.06	0	< 0.05	0.06	
Acenaphthene	510	10	< LOD	0.38	0	< 0.05	0.38	
Fluorene	400	10	< LOD	0.32	0	< 0.05	0.32	
Phenanthrene	220	10	0.10	2.00	0	0.12	2.00	
Anthracene	5400	10	< LOD	0.48	0	< 0.05	0.48	
Fluoranthene	560	10	0.21	1.80	0	0.23	1.80	
Pyrene	1200	10	0.19	1.60	0	0.22	1.60	
Benzo(a)anthracene	11	10	0.10	0.77	0	0.11	0.77	
Chrysene	22	10	0.13	0.89	0	0.13	0.89	
Benzo(b)fluoranthene	3.3	10	0.15	0.98	0	0.16	0.98	
Benzo(k)fluoranthene	93	10	0.06	0.35	0	0.06	0.35	
Benzo(a)pyrene	2.7	10	0.12	0.79	0	0.12	0.79	
Indeno(1,2,3-cd)pyrene	36	10	0.07	0.32	0	0.07	0.32	
Dibenz(a,h)anthracene	0.28	10	< LOD	0.10	0	< 0.05	0.10	
Benzo(ghi)perylene	340	10	< LOD	0.38	0	0.08	0.38	
Asbestos Detected (Detected or Not-Detected)	Y	10	0.00	0.00	0	Not-Detected	Not-Detected	
Mean Average SOM	2.8							
Mean Average pH	7.8							
	Residential with Homegrown Produce 2.5% SOM							
Job Number: C5150								
Client: Kellen Homes								
Site: Mount Road, Gorton								
	Soil Group Type Topsoil							



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Analytical Report Number : 25-024065

Project / Site name:	Mount Road, Gorton	Samples received on:	09/05/2025
Your job number:	C5150	Samples instructed on/ Analysis started on:	09/05/2025
Your order number:	C5150/6414/PH	Analysis completed by:	15/05/2025
Report Issue Number:	1	Report issued on:	15/05/2025
Samples Analysed:	10 soil samples		

Signed:

Rafa Szczepaczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-024065
Project / Site name: Mount Road, Gorton
Your Order No: C5150/6414/PH

Lab Sample Number	541749	541750	541751	541752	541753
Sample Reference	TS101	TS102	TS103	TS104	TS105
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.7	13	8.9	8.4	10
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	7.7	7.9	7.8	7.8
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	76	86	95	100	64
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	37.9	43.1	47.4	51.2	31.9
Organic Matter (automated)	%	0.1	MCERTS	2.6	3.1	2.5	2.9	2.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.11	0.12	0.16	0.21	0.13
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.23	0.31	0.31	0.37	0.26
Pyrene	mg/kg	0.05	MCERTS	0.21	0.3	0.29	0.37	0.25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.12	0.16	0.15	0.19	0.12
Chrysene	mg/kg	0.05	MCERTS	0.14	0.19	0.19	0.23	0.16
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.21	0.27	0.27	0.3	0.23
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.07	0.1	0.07	0.11	0.07
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.15	0.22	0.21	0.24	0.15
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.08	0.11	0.09	0.11	0.08
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.09	0.14	0.12	0.14	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.42	1.93	1.85	2.27	1.46
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Analytical Report Number: 25-024065
 Project / Site name: Mount Road, Gorton
 Your Order No: C5150/6414/PH

Lab Sample Number				541749	541750	541751	541752	541753
Sample Reference				TS101	TS102	TS103	TS104	TS105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	13	13	13	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.6	0.6	0.6	0.6
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	26	25	27	27	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	26	27	28	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	44	48	47	46	46
Lead (aqua regia extractable)	mg/kg	1	MCERTS	59	62	68	61	60
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	22	24	23	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	91	93	91	93	90

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-024065
Project / Site name: Mount Road, Gorton
Your Order No: C5150/6414/PH

Lab Sample Number	541754	541755	541756	541757	541758
Sample Reference	TS106	TS107	TS108	TS109	TS110
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7	7.9	9.9	12	10
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	8.1	7.7	7.6	7.7
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	98	72	68	94	72
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	49.2	35.8	33.8	47.2	35.8
Organic Matter (automated)	%	0.1	MCERTS	2.8	3	2.6	2.3	3.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.16
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.38
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.32
Phenanthrene	mg/kg	0.05	MCERTS	0.21	0.19	0.1	0.12	2
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.48
Fluoranthene	mg/kg	0.05	MCERTS	0.35	0.3	0.21	0.23	1.8
Pyrene	mg/kg	0.05	MCERTS	0.33	0.27	0.19	0.22	1.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.16	0.14	0.1	0.11	0.77
Chrysene	mg/kg	0.05	MCERTS	0.21	0.18	0.13	0.13	0.89
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.29	0.25	0.15	0.16	0.98
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06	0.08	0.09	0.06	0.35
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.2	0.18	0.13	0.12	0.79
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.1	0.1	0.07	0.07	0.32
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.13	0.12	0.09	0.08	0.38

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.03	1.8	1.25	1.28	11.3
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Analytical Report Number: 25-024065
 Project / Site name: Mount Road, Gorton
 Your Order No: C5150/6414/PH

Lab Sample Number				541754	541755	541756	541757	541758
Sample Reference				TS106	TS107	TS108	TS109	TS110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	14	12	9.7	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.6	0.5	0.4	0.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	28	27	27	22	25
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	27	27	23	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	49	42	36	44
Lead (aqua regia extractable)	mg/kg	1	MCERTS	58	65	55	44	60
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	0.4	< 0.3	< 0.3	0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	24	23	19	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	1	< 1.0	< 1.0	1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	94	94	81	67	88

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-024065

Project / Site name: Mount Road, Gorton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
541749	TS101	None Supplied	None Supplied	Brown loam and sand with gravel
541750	TS102	None Supplied	None Supplied	Brown clay and loam with gravel
541751	TS103	None Supplied	None Supplied	Brown clay and loam with gravel
541752	TS104	None Supplied	None Supplied	Brown clay and loam with gravel
541753	TS105	None Supplied	None Supplied	Brown clay and loam with gravel
541754	TS106	None Supplied	None Supplied	Brown clay and loam with gravel
541755	TS107	None Supplied	None Supplied	Brown clay and loam with gravel
541756	TS108	None Supplied	None Supplied	Brown clay and loam with gravel
541757	TS109	None Supplied	None Supplied	Brown clay and loam with gravel
541758	TS110	None Supplied	None Supplied	Brown loam and clay with gravel

Analytical Report Number : 25-024065
Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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Analytical Report Number : 25-008354

Project / Site name:	Mount Road, Gorton	Samples received on:	20/02/2025
Your job number:	C5150	Samples instructed on/ Analysis started on:	20/02/2025
Your order number:	6174	Analysis completed by:	06/03/2025
Report Issue Number:	1	Report issued on:	06/03/2025
Samples Analysed:	13 soil samples		

Signed:

Trevor Hill
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number	459493	459494	459495	459496	459497
Sample Reference	SP25 3.1	SP25 3.2	SP25 3.3	SP25 3.4	SP25 3.5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	11	15	12
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.6	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ	KSZ	KSZ
Analysis completed	N/A	N/A	N/A	25/02/2025	25/02/2025	25/02/2025	25/02/2025	25/02/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	8	8.2	8.4	7.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	93	78	78	67	67
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	46.2	39	38.8	33.3	33.6
Organic Matter (automated)	%	0.1	MCERTS	1.7	1.3	1.6	1.6	1.7

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.25	0.07	< 0.05	0.3	0.23
Fluorene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	0.15	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.5	0.38	0.17	1.8	1.4
Anthracene	mg/kg	0.05	MCERTS	0.35	< 0.05	< 0.05	0.49	0.29
Fluoranthene	mg/kg	0.05	MCERTS	2.4	0.49	0.19	2.7	1.9
Pyrene	mg/kg	0.05	MCERTS	2.1	0.46	< 0.05	2.5	1.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.95	0.22	0.09	1.2	0.78
Chrysene	mg/kg	0.05	MCERTS	1.1	0.27	0.14	1.2	0.81
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.1	0.22	0.09	1.3	0.72
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	0.57	0.41
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1	0.21	0.09	1.2	0.78
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.45	< 0.05	< 0.05	0.55	0.33
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.58	< 0.05	< 0.05	0.69	0.43

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11.9	2.32	< 0.80	14.7	9.76
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.8	6.1	6.5	7.4	11
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	25	23	25	23	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	23	25	23	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	16	23	26	65
Lead (aqua regia extractable)	mg/kg	1	MCERTS	27	13	14	19	32
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	21	27	26	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	59	40	53	51	68

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number	459493	459494	459495	459496	459497
Sample Reference	SP25 3.1	SP25 3.2	SP25 3.3	SP25 3.4	SP25 3.5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	3.3
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	3.3
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	13	< 10	< 10	< 10	16
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number				459498	459499	459500	459501	459502
Sample Reference				SP25 3.6	SP03 1.1	SP03 1.2	SP03 1.3	SP03 1.4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	15	17	12	17
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.5	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ	KSZ	KSZ
Analysis completed	N/A	N/A	N/A	25/02/2025	25/02/2025	25/02/2025	25/02/2025	25/02/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.2	7.8	8.1	8.2
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	60	320	300	260	240
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	30.1	161	152	130	121
Organic Matter (automated)	%	0.1	MCERTS	1.6	2	1.7	1.6	1.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.13	< 0.05	0.14	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.09	0.35	0.43	0.28	0.08
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.19	0.23	0.17	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.62	2.3	3	1.7	0.55
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.51	0.71	0.37	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.94	3.4	4.3	2.6	0.77
Pyrene	mg/kg	0.05	MCERTS	0.86	3.1	3.9	2.3	0.69
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.37	1.3	1.7	1.1	0.3
Chrysene	mg/kg	0.05	MCERTS	0.47	1.6	1.8	1.2	0.38
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.44	1.6	1.9	1.3	0.36
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21	0.6	0.72	0.46	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.41	1.5	1.8	1.1	0.31
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.22	0.67	0.78	0.57	0.14
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.21	0.2	0.16	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.26	0.81	0.96	0.68	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.88	18.3	22.5	14.1	3.73
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.9	15	13	13	9.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	27	24	24	23	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	24	24	23	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	42	44	37	33
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	53	71	43	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	29	28	28	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	71	83	90	88	84

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number	459498	459499	459500	459501	459502
Sample Reference	SP25 3.6	SP03 1.1	SP03 1.2	SP03 1.3	SP03 1.4
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	2.5	< 2.0	2.1	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	18	17	15	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number				459503	459504	459505
Sample Reference				SP04 1.1	SP04 1.2	SP04 1.3
Sample Number				None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	15	14
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ
Analysis completed	N/A	N/A	N/A	25/02/2025	25/02/2025	25/02/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8	7.8	8.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	220	200	150
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	108	101	73.6
Organic Matter (automated)	%	0.1	MCERTS	1	1.6	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.12	0.2
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32
Acenaphthene	mg/kg	0.05	MCERTS	0.15	0.4	0.11
Fluorene	mg/kg	0.05	MCERTS	0.08	0.24	0.17
Phenanthrene	mg/kg	0.05	MCERTS	0.97	2.8	0.87
Anthracene	mg/kg	0.05	MCERTS	0.2	0.68	0.32
Fluoranthene	mg/kg	0.05	MCERTS	1.4	3.6	1.4
Pyrene	mg/kg	0.05	MCERTS	1.3	3.3	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.52	1.4	0.76
Chrysene	mg/kg	0.05	MCERTS	0.68	1.8	0.7
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.59	1.5	1.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21	0.81	0.52
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.5	1.4	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.23	0.61	0.61
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.12	0.13
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.26	0.7	0.71

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.08	19.5	10.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.4	9.9	8.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	30	24	21
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	24	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	28	27
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	49	28
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	29	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	62	54

Analytical Report Number: 25-008354
Project / Site name: Mount Road, Gorton
Your Order No: 6174

Lab Sample Number				459503	459504	459505
Sample Reference				SP04 1.1	SP04 1.2	SP04 1.3
Sample Number				None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	4.4
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	2.8	4.4
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	13	18
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	15
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	15

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	15
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VOCS

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-008354
Project / Site name: Mount Road, Gorton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459493	SP25 3.1	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459494	SP25 3.2	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459495	SP25 3.3	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459496	SP25 3.4	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459497	SP25 3.5	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459498	SP25 3.6	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459499	SP03 1.1	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459500	SP03 1.2	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459501	SP03 1.3	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459502	SP03 1.4	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459503	SP04 1.1	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459504	SP04 1.2	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
459505	SP04 1.3	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-008354

Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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Analytical Report Number : 25-001881

Project / Site name: Mount Road, Gorton

Samples received on: 16/01/2025

Your job number: C5150

**Samples instructed on/
Analysis started on:** 16/01/2025

Your order number:

Analysis completed by: 24/01/2025

Report Issue Number: 1

Report issued on: 24/01/2025

Samples Analysed: 20 soil samples

Signe

Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number	426463	426464	426465	426466	426467
Sample Reference	CS2501	CS2502	CS2503	CS2504	CS2505
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	19	20	21	14
Total mass of sample received	kg	0.1	NONE	0.6	0.7	0.7	0.8	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DOC	DOC	DOC	DOC	DOC

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	8.3	7.8	7.6	8.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	180	57	74	70	240
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	92.2	28.5	36.9	34.9	118
Organic Matter (automated)	%	0.1	MCERTS	1.8	1.6	1.5	1.3	1.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.19	< 0.05	0.07	0.08	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.94	0.08	0.6	0.52	0.26
Fluorene	mg/kg	0.05	MCERTS	0.55	< 0.05	0.3	0.29	0.17
Phenanthrene	mg/kg	0.05	MCERTS	5.4	0.47	3.6	3.4	1.7
Anthracene	mg/kg	0.05	MCERTS	1.3	0.1	0.89	0.79	0.38
Fluoranthene	mg/kg	0.05	MCERTS	6.8	0.85	6.4	5.3	2.2
Pyrene	mg/kg	0.05	MCERTS	6	0.76	5.8	4.7	2.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.8	0.39	2.4	2.2	0.96
Chrysene	mg/kg	0.05	MCERTS	3	0.42	2.8	2.3	0.99
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.2	0.53	3.1	2.3	1.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.2	0.16	1.1	1.1	0.36
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.8	0.39	2.6	2.1	0.92
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	0.2	1.1	0.93	0.44
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.2	< 0.05	0.22	0.17	0.07
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	0.22	1.3	1	0.48

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	36.9	4.58	32.3	27.2	12.1
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	9.6	13	9.7	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	31	31	33	32	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	31	34	33	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	65	28	71	55	33
Lead (aqua regia extractable)	mg/kg	1	MCERTS	81	21	39	35	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	39	24	31	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.2	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	69	73	67	73

Petroleum Hydrocarbons

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number				426463	426464	426465	426466	426467
Sample Reference				CS2501	CS2502	CS2503	CS2504	CS2505
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	2.5	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	11	< 10	< 10	13	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	30	< 10	21	38	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	18	< 10	11	23	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	32	< 10	11	37	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	32	< 10	11	37	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	32	< 10	11	37	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number	426468	426469	426470	426471	426472
Sample Reference	CS2506	CS2507	CS2508	CS2509	CS2510
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	32.5	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	15	15	14	17
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.7	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	KMC	KMC	KMC

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	7.9	6.9	8.2	8.2
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	230	250	240	200	54
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	114	125	120	102	26.9
Organic Matter (automated)	%	0.1	MCERTS	1.6	1.6	2.1	1.6	1.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.4	< 0.05	0.05	< 0.05	0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.88	0.2	0.37	< 0.05	0.25
Fluorene	mg/kg	0.05	MCERTS	0.61	0.11	0.23	< 0.05	0.13
Phenanthrene	mg/kg	0.05	MCERTS	4.7	1.3	2.8	0.31	1.3
Anthracene	mg/kg	0.05	MCERTS	1.1	0.27	0.66	0.05	0.24
Fluoranthene	mg/kg	0.05	MCERTS	4.8	1.9	4	0.49	1.5
Pyrene	mg/kg	0.05	MCERTS	4.4	1.7	3.6	0.46	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.9	0.77	1.5	0.23	0.6
Chrysene	mg/kg	0.05	MCERTS	2.1	0.87	1.6	0.25	0.66
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.2	0.78	1.8	0.27	0.61
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.74	0.45	0.55	0.13	0.29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2	0.74	1.4	0.22	0.55
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.87	0.4	0.68	0.12	0.27
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.14	0.07	0.15	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.94	0.41	0.77	0.11	0.25

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	28.7	9.93	20.1	2.64	8
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.6	9.4	12	7.8	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	23	26	26	24	29
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	26	26	24	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29	29	40	25	34
Lead (aqua regia extractable)	mg/kg	1	MCERTS	34	24	36	19	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	28	31	27	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	61	72	63	68

Petroleum Hydrocarbons

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number				426468	426469	426470	426471	426472
Sample Reference				CS2506	CS2507	CS2508	CS2509	CS2510
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	2	< 2.0	3	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	12	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number	426473	426474	426475	426476	426477
Sample Reference	CS2511	CS2512	CS2513	CS2514	CS2515
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	11.6	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	16	18	14	17
Total mass of sample received	kg	0.1	NONE	0.8	0.7	0.8	0.7	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	KMC	KMC	KMC

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	8.5	8.1	8.6	8.3
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	200	170	220	280	280
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	99	83.8	110	141	138
Organic Matter (automated)	%	0.1	MCERTS	1.5	1.5	1.5	1.5	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.05	< 0.05	< 0.05	< 0.05	0.07
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.26	< 0.05	0.08	0.08	0.63
Fluorene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05	0.39
Phenanthrene	mg/kg	0.05	MCERTS	1.4	0.28	0.59	0.54	3.8
Anthracene	mg/kg	0.05	MCERTS	0.3	0.06	0.12	0.12	0.89
Fluoranthene	mg/kg	0.05	MCERTS	1.8	0.45	0.93	0.92	4
Pyrene	mg/kg	0.05	MCERTS	1.7	0.41	0.86	0.87	3.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.7	0.2	0.44	0.43	1.5
Chrysene	mg/kg	0.05	MCERTS	0.91	0.24	0.42	0.43	1.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.87	0.23	0.46	0.48	1.4
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.36	0.1	0.17	0.16	0.55
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.78	0.2	0.37	0.42	1.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.38	0.09	0.16	0.19	0.53
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	0.12
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.37	0.11	0.19	0.22	0.57

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	10.2	2.37	4.8	4.86	20.9
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8	7.5	9.4	9.2	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	23	26	32	28	32
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	26	32	28	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	26	30	28	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	54	24	26	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	27	33	32	33
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	53	63	63	65	62

Petroleum Hydrocarbons

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number				426473	426474	426475	426476	426477
Sample Reference				CS2511	CS2512	CS2513	CS2514	CS2515
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	2.4	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	11	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number	426478	426479	426480	426481	426482
Sample Reference	CS2516	CS2517	CS2518	CS2519	CS2520
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	14	21	15
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.7	0.7	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.2	8.2	6.9	7.4
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	230	290	260	52	97
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	116	143	129	25.9	48.7
Organic Matter (automated)	%	0.1	MCERTS	1.7	1.6	1.5	1	1.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.06	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.36	0.49	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.19	0.28	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	2.3	3.4	0.35	< 0.05	0.14
Anthracene	mg/kg	0.05	MCERTS	0.52	0.76	0.08	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	3.2	4.1	0.71	< 0.05	0.21
Pyrene	mg/kg	0.05	MCERTS	2.9	3.7	0.64	< 0.05	0.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.3	1.5	0.34	< 0.05	0.1
Chrysene	mg/kg	0.05	MCERTS	1.4	1.6	0.35	< 0.05	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.4	1.5	0.43	< 0.05	0.13
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.71	0.61	0.12	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	1.4	0.32	< 0.05	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.59	0.58	0.15	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.14	0.11	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.69	0.63	0.17	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	17.1	20.5	3.65	< 0.80	1.01
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	11	7.7	8.3	8.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	29	29	30	34	32
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	29	30	34	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	150	33	27	21	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	54	28	18	16	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	32	33	27	45
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	64	62	47	54

Petroleum Hydrocarbons

Analytical Report Number: 25-001881
Project / Site name: Mount Road, Gorton

Lab Sample Number				426478	426479	426480	426481	426482
Sample Reference				CS2516	CS2517	CS2518	CS2519	CS2520
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				15/01/2025	15/01/2025	15/01/2025	15/01/2025	15/01/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC5 - EC10 _{HS_1D_AL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC10 - EC16 _{EH_CU_1D_AL}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC16 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC5 - EC10 _{HS_1D_AR}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC10 - EC16 _{EH_CU_1D_AR}	mg/kg	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	2.8	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	11	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC16 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	21	14	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	24	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	24	< 10	< 10	< 10	< 10
TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	24	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total BTEX	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 25-001881
Project / Site name: Mount Road, Gorton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
426463	CS2501	None Supplied	None Supplied	Brown clay and sand with gravel
426464	CS2502	None Supplied	None Supplied	Brown clay and sand with gravel
426465	CS2503	None Supplied	None Supplied	Brown clay and sand with gravel
426466	CS2504	None Supplied	None Supplied	Brown clay and sand with gravel
426467	CS2505	None Supplied	None Supplied	Brown clay and sand with gravel
426468	CS2506	None Supplied	None Supplied	Brown clay and sand with vegetation and stones
426469	CS2507	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
426470	CS2508	None Supplied	None Supplied	Brown clay and sand with gravel
426471	CS2509	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
426472	CS2510	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
426473	CS2511	None Supplied	None Supplied	Brown clay and sand with stones
426474	CS2512	None Supplied	None Supplied	Brown loam and clay with gravel
426475	CS2513	None Supplied	None Supplied	Brown loam and clay with gravel
426476	CS2514	None Supplied	None Supplied	Brown loam and clay with gravel
426477	CS2515	None Supplied	None Supplied	Brown loam and clay with gravel
426478	CS2516	None Supplied	None Supplied	Brown loam and clay with gravel
426479	CS2517	None Supplied	None Supplied	Brown loam and clay with gravel
426480	CS2518	None Supplied	None Supplied	Brown loam and clay with gravel
426481	CS2519	None Supplied	None Supplied	Brown clay and sand with gravel
426482	CS2520	None Supplied	None Supplied	Brown loam and clay with gravel

Analytical Report Number : 25-001881
Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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Analytical Report Number : 24-051235

Project / Site name:	Mount Road, Gorton	Samples received on:	31/10/2024
Your job number:	C5150	Samples instructed on/ Analysis started on:	31/10/2024
Your order number:	5832	Analysis completed by:	12/11/2024
Report Issue Number:	1	Report issued on:	12/11/2024
Samples Analysed:	9 soil samples		

Signe

Claire Bancroft
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-051235
Project / Site name: Mount Road, Gorton
Your Order No: 5832

Lab Sample Number				365947	365948	365949	365950	365951
Sample Reference				CS01	CS02	CS03	CS04	CS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				29/10/2024	29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	15	14	14	13
Total mass of sample received	kg	0.1	NONE	0.9	1	0.9	1.1	1.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MUA	MUA	MUA	MUA	MBI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	7.9	8.3	7.9	8.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	240	400	280	390	220
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	119	200	142	197	108
Organic Matter (automated)	%	0.1	MCERTS	1.6	1.3	1.4	1.3	1.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.17	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.4	0.19	0.23	< 0.05	0.16
Anthracene	mg/kg	0.05	MCERTS	0.28	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.2	0.33	0.24	< 0.05	0.15
Pyrene	mg/kg	0.05	MCERTS	2	0.33	0.23	< 0.05	0.12
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.8	0.15	0.1	< 0.05	0.06
Chrysene	mg/kg	0.05	MCERTS	0.98	0.12	0.12	< 0.05	0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1	0.15	0.11	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.39	< 0.05	0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.91	< 0.05	0.1	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.47	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.48	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11.3	1.28	1.19	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	8.7	7.2	9.6	7.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	29	29	28	29	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	29	28	29	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	23	22	22	21
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	14	11	14	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	32	35	32	36	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.8	1.4	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	63	53	61	57	50

Petroleum Hydrocarbons

Analytical Report Number: 24-051235
Project / Site name: Mount Road, Gorton
Your Order No: 5832

Lab Sample Number				365947	365948	365949	365950	365951
Sample Reference				CS01	CS02	CS03	CS04	CS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				29/10/2024	29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH (>EC5 - EC10) _{HS_1D_TOTAL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>EC16 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	NONE	11	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-051235
Project / Site name: Mount Road, Gorton
Your Order No: 5832

Lab Sample Number	365952	365953	365954	365955
Sample Reference	CS06	CS07	CS08	CS09
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	32.9	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	8.3	17	13
Total mass of sample received	kg	0.1	NONE	1.1	0.9	1.1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MWI	MWI	MWI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8	7.5	6.8	7.4
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	530	1000	550	330
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	266	519	274	165
Organic Matter (automated)	%	0.1	MCERTS	1.2	1	1.6	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05	0.45	0.06
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.31	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.38	0.2	3.3	0.37
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.77	0.08
Fluoranthene	mg/kg	0.05	MCERTS	0.41	0.24	4.9	0.75
Pyrene	mg/kg	0.05	MCERTS	0.37	0.23	4.4	0.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.18	0.09	1.9	0.34
Chrysene	mg/kg	0.05	MCERTS	0.17	0.12	2	0.34
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.15	< 0.05	2.2	0.34
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	< 0.05	0.77	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.16	0.09	2	0.33
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.11	< 0.05	1.1	0.17
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.13	< 0.05	1.1	0.19

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.19	0.97	25.3	3.8
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.2	7	10	7.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	23	24	25	22
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	24	25	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	19	26	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	14	12	38	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	29	23	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	54	54	64	43

Petroleum Hydrocarbons

Analytical Report Number: 24-051235
Project / Site name: Mount Road, Gorton
Your Order No: 5832

Lab Sample Number				365952	365953	365954	365955
Sample Reference				CS06	CS07	CS08	CS09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	3	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

TPH (>EC5 - EC10) _{HS_1D_TOTAL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>EC16 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-051235

Project / Site name: Mount Road, Gorton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
365947	CS01	None Supplied	None Supplied	Brown loam and clay with gravel
365948	CS02	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
365949	CS03	None Supplied	None Supplied	Brown clay and loam
365950	CS04	None Supplied	None Supplied	Brown clay and loam
365951	CS05	None Supplied	None Supplied	Brown clay and loam with gravel
365952	CS06	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
365953	CS07	None Supplied	None Supplied	Brown loam and clay with vegetation and stones
365954	CS08	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation
365955	CS09	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation

Analytical Report Number : 24-051235
Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

Analytical Report Number : 24-051235
Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Analytical Report Number : 24-051235

Project / Site name: Mount Road, Gorton

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
CS09	N/A	S	365955	b	BTEX and/or Volatile organic compounds in soil	L073B	b
CS09	N/A	S	365955	b	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	b
CS09	N/A	S	365955	b	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	b
CS09	N/A	S	365955	b	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	b

APPENDIX B

Waste Transfer Notes

P.P. O'Connor | 61 Mosley Road, Trafford Park
Manchester M17 1GJ | Tel: 0161 776 0333 | Fax: 0161 7760303

Ticket N° 000824

Section A - Waste Description

A1 - How is the waste contained: ☐ Skip ☒ Tipper ☐ Other (specify).....

A2 - Quantity of waste: 2500 Tonnes

A3 - EWC Codes:

Construction and Demolition Waste (tick box if present):			
170101	Concrete	170201	Wood
170102	Brick	170202	Glass
170103	Tiles and Ceramics	170203	Plastic
170107	Non-hazardous mixtures of Concrete, Brick, Tiles and Ceramics	170302	Bituminous Mixtures (coal tar free)
170504	Non-hazardous Soil and Stone	170407	Mixed Metals
170508	Non-hazardous Track Ballast	170411	Cables
	Others		

Section B - Waste Producer:

B1 - Name and Address of Company: WPI CIVIL ENGINEERING LTD, KING STREET TRADING ESTATE, MIDDLEWICH, CHESHIRE, CW10 9LF

B2 - SIC Code 2007; (Tick One Only):

41.20/1	Construction of Commercial Buildings	43.11	Demolition
41.20/2	Construction of Domestic Buildings	43.12	Demolition - Site Preparation
42.11	Construction of Roads and Motorways		Others
42.12	Construction of Railways		
42.13	Construction of Bridges and Tunnels		
42.91	Construction of Water Projects		
42.99	Construction of other Civil Engineering Projects N.E.C		

B3 - Name and Address of Site to collect from: Mount Road, Gorton, Manchester, M18 7BQ

B4 - Date of transfer from: 25-4-25 - 25-7-25

B5 - I can confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011;

Name (print) Les Bourne Date 25/04/2025

Section C - Carrier of Waste:

C1 - Waste Carrier: P.P. O'Connor Group Ltd, The Exchange, 5 Bank Street, Bury BL9 0DN

C2 - Registration Number: EBDU101751

Name (print) A. J. Barry Sign [Redacted] Date 25-4-25

Section D - Waste Disposer/Recycler:

D1 - I can confirm I have brought the waste to a permitted facility on behalf of the person named in section B

Name (print) A. J. Barry Sign [Redacted] Date 25-4-25

D2 - Name of Facility: ☐ Permit EPR/BB3001kN 659 Eccles New Road, Salford M501DA ☒ Other;

☐ Permit EPR/AB3205FD Sharston Recycling Centre, Longley Lane, Sharston M224SS

Address of Site: Valencia Waste Management Ltd, Alsworth South Lancashire Site, Pilsworth Road, Bury, Lancashire, BL9 8QZ

I acknowledge Receipt of the above waste on behalf of permit number: EPR/BS79511B

Name (print) Sign Date

P.P. O'Connor | 61 Mosley Road, Trafford Park
Manchester M17 1GJ | Tel: 0161 776 0333 | Fax: 0161 7760303

Ticket N° 000813

Section A - Waste Description

A1 - How is the waste contained: ☐ Skip ☒ Tipper ☐ Other (specify).....

A2 - Quantity of waste: 5000 Tonnes

A3 - EWC Codes:

Construction and Demolition Waste (tick box if present):			
170101	Concrete	170201	Wood
170102	Brick	170202	Glass
170103	Tiles and Ceramics	170203	Plastic
170107	Non-hazardous mixtures of Concrete, Brick, Tiles and Ceramics	170302	Bituminous Mixtures (coal tar free)
170504	☒ Non-hazardous Soil and Stone	170407	Mixed Metals
170508	Non-hazardous Track Ballast	170411	Cables
	Others		

Section B - Waste Producer:

B1 - Name and Address of Company: WPI CIVIL ENGINEERING LTD, KING STREET RADNOK ESTATE, MIDDLEWICH, CHESHIRE, CW10 9LF

B2 - SIC Code 2007; (Tick One Only):

41.20/1	Construction of Commercial Buildings	43.11	Demolition
41.20/2	Construction of Domestic Buildings	43.12	Demolition - Site Preparation
42.11	Construction of Roads and Motorways		Others
42.12	Construction of Railways		
42.13	Construction of Bridges and Tunnels		
42.91	Construction of Water Projects		
42.99	Construction of other Civil Engineering Projects N.E.C		

B3 - Name and Address of Site to collect from: MOUNT ROAD, CORTON, MANCHESTER, M18 7BQ

B4 - Date of transfer from: 4-3-25 - 30-06-25

B5 - I can confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011;

Name (print) Sign Date

Section C - Carrier of Waste:

C1 - Waste Carrier: P.P. O'Connor Group Ltd, The Exchange, BL9 0DN

C2 - Registration Number: CB0U101751

Name (print) A. J. BARRY Sign Date

Section D - Waste Disposer/Recycler:

D1 - I can confirm I have brought the waste to a permitted facility on behalf of the person named in section B

Name (print) A. J. BARRY Sign Date

D2 - Name of Facility: ☐ Permit EPR/BB3001kN 659 Eccles New Road, Salford M501DA ☒ Other;

☐ Permit EPR/AB3205FD Sharston Recycling Centre, Longley Lane, Sharston M224SS

Address of Site: VALENCIA WASTE MANAGEMENT LTD, PILSWORTH SOUTH LANDFILL SITE, PILSWORTH ROAD, BURY, LANCAIRE, BL9 8QZ

D3 - I acknowledge Receipt of the above waste on behalf of permit number: EPR/BS79521B

Name (print) Sign Date

Cheshire Soils and Aggregates LTD

Buyer and supplier of bulk topsoil

197/201 Manchester road, Room 7, WA14 5NU,

Tel: 07813 130188

Email: ciaran@cheshiresoils.co.uk Web: www.cheshiresoils.co.uk

No: 0134

DUTY OF CARE: CONTROLLED WASTE TRANSFER NOTE

A Description of the waste	1) Description of the waste being transferred <u>INERT SOILS</u> List of Waste Regulations code(s): <u>17 05 04</u> 2) How is the waste contained? ☒ Loose ☐ Sacks ☐ Skip ☐ Drum ☐ Other (Specify): 3) How much waste? For example: number of sacks, weight: <u>1500 TON</u> 4) Analysis attached / not attached / sent separately (delete as appropriate)
B Producer / holder of the waste	Current holder of the waste - Transferer: By signing in Section D or F below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 Yes ☐ 1) Full Name (print): <u>WPI CIVIL ENGINEERING LTD</u> 2) Company name, address and postcode: <u>WPI HOUSE KING ST TRADING EST MIDDLEWICH CW10 9LF</u> 3) SIC code (2007): ☐ ☐ ☐ ☐ ☐ ☐ 4) Which of the following are you? (please tick one or more boxes) A ☒ Waste producer ☐ Waste importer ☐ Collection / disposal authority ☐ Broker B ☐ Env Permit holder (ref. number): ☐ Registered waste carrier (ref. number): C ☐ Waste exemption holder (exemption registration number): D ☐ Exempt from carrier registration (give reason):
C Carrier of the waste	1) Full Name (print): <u>CHESHIRE SOILS AND AGGREGATES LTD</u> 2) Company name, address and postcode: <u>UNIT 2 EDWARD COURT ACTONCHAM BUSINESS PARK WA14 5QL</u> 3) SIC code (2007): ☐ ☐ ☐ ☐ ☐ ☐ 4) Which of the following are you? (Tick one box) A ☐ Waste collection authority: B ☒ Registered waste carrier (ref. number): <u>CBDD 324237</u> C ☐ Exempt from carrier registration (give reason):
D First transfer (holder to the carrier) *	1) Place of transfer: <u>Mountford Colton</u> 2) Date of transfer: <u>25/2/25</u> 3) Time(s) of transfer: <u>8AM 14PM</u> Contact No: (for multiple transfers give date range) 4) Name and address of broker arranging transfer (if applicable): <u>CHESHIRE SOILS AND AGGREGATES LTD ACTONCHAM BUSINESS PARK WA14 5QL</u> 5) Holder's representatives Carriers representatives Name (print): Name (print): <u>ROSS MARRIN</u> Signed: Signed:
E Disposer / recovery of the waste	1) Full name (print): <u>CHESHIRE SOILS AND AGGREGATES LTD</u> 2) Company name, address and postcode: <u>SOIL RECYCLING FACILITY UNIT 6 MONDRIE TRADING EST TRAFFORD PARK M17 1LP</u> 3) Which of the following are you? (Tick one box) ☒ Holder of an Environmental Permit (ref. number): <u>EPR/WE 2537 AC</u> ☐ Holder of a valid waste exemption (ref. number):
F Second transfer (carrier to disposer / recovery)	1) Place of transfer: <u>TRAFFORD PARK</u> 2) Date of transfer: <u>25/2/25</u> 3) Time(s) of transfer: <u>8AM 14.30</u> Contact No: (for multiple transfers give date range) 4) Name and address of broker arranging transfer (if applicable): 5) Holder's representatives Disposer's / Recoverer's representatives Name (print): Name (print): Signed: Signed:

Producer's / Holder's Copy

This note must be retained by you and held for at least two years (or longer period specified in your Environmental Permit) from the date of the last transfer to which this note applies.

White - Producer's copy

Yellow - Carrier's copy

Pink - Disposer's / recovery's copy

Cheshire Soils and Aggregates LTD

Buyer and supplier of bulk topsoil
197/201 Manchester road, Room 7, WA14 5NU,
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk Web: www.cheshiresoils.co.uk

No: 0485

DUTY OF CARE: CONTROLLED WASTE TRANSFER NOTE	
A Description of the waste	1) Description of the waste being transferred <u>Soils</u> List of Waste Regulations code(s): <u>17 05 04</u> 2) How is the waste contained? ☒ Loose ☐ Sacks ☐ Skip ☐ Drum ☐ Other (Specify): 3) How much waste? For example: number of sacks, weight: <u>250 loads EST</u> 4) Analysis attached / not attached / sent separately (delete as appropriate)
B Producer / holder of the waste	Current holder of the waste - Transferer: By signing in Section D or F below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 Yes ☐ 1) Full Name (print): <u>W.P. Group</u> 2) Company name, address and postcode: <u>King Street Trading estate, Cheshire Middlesbrough</u> 3) SIC code (2007): ☐ ☐ ☐ ☐ ☐ ☐ 4) Which of the following are you? (please tick one or more boxes) A ☒ Waste producer ☐ Waste importer ☐ Collection / disposal authority ☐ Broker B ☐ Env Permit holder (ref. number): ☐ Registered waste carrier (ref. number): C ☐ Waste exemption holder (exemption registration number): D ☐ Exempt from carrier registration (give reason):
C Carrier of the waste	1) Full Name (print): <u>Cheshire Soils + Aggregates</u> 2) Company name, address and postcode: <u>Unit 2 Edward Court</u> 3) SIC code (2007): ☐ ☐ ☐ ☐ ☐ ☐ 4) Which of the following are you? (Tick one box) A ☐ Waste collection authority: B ☒ Registered waste carrier (ref. number): <u>CBDU 324237</u> C ☐ Exempt from carrier registration (give reason):
D First transfer (holder to the carrier)	1) Place of transfer: <u>Mount St Madeline</u> 2) Date of transfer: <u>3/3/25</u> 3) Time(s) of transfer: Contact No: (for multiple transfers give date range) 4) Name and address of broker arranging transfer (if applicable): <u>Cheshire Soils + Aggregates Unit 2 Edward Court</u> 5) Holder's representatives Name (print): <u>R. Martin</u> Carriers representatives Name (print): <u>R. Martin</u> Signed: Signed:
E Disposer / recoverer of the waste	1) Full name (print): <u>Harwood Quarry Brookfield Lane</u> 2) Company name, address and postcode: <u>Booth Ventures</u> 3) Which of the following are you? (Tick one box) ☒ Holder of an Environmental Permit (ref. number): <u>EPR Br8741EL</u> ☐ Holder of a valid waste exemption (ref. number):
F Second transfer (carrier to disposer / recoverer)	1) Place of transfer: <u>Booth Ventures</u> 2) Date of transfer: <u>3/3/25</u> 3) Time(s) of transfer: Contact No: (for multiple transfers give date range) 4) Name and address of broker arranging transfer (if applicable): 5) Holder's representatives Name (print): Signed: Disposer's Name (print): Signed: <div style="background-color: black; width: 100px; height: 40px; margin-left: 100px;"></div>

Producer's / Holder's Copy

This note must be retained by you and held for at least two years (or longer period specified in your Environmental Permit) from the date of the last transfer to which this note applies.

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Viridor Waste Management Limited

Pilsworth South Landfill Site
Pilsworth Road
Bury
Lancashire
BL9 8QZ

Variation application number
EPR/BS7951IB/V011

Permit number
EPR/BS7951IB

Pilsworth South Landfill Site

Permit number EPR/BS7951IB

Introductory note

This introductory note does not form a part of the notice.

The following gives notice of the variation and consolidation of your environmental permit. We have issued this variation to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the landfill sector. We have also converted the permit into the current EPR permit format using modern conditions.

This Environment Agency has a duty, under the Environmental Permitting (England and Wales) Regulations 2010, regulation 34(1), to periodically review permits. As a result of that review we have identified a number of necessary changes we must make to your permit to reflect current legislation and best practice. These changes principally relate to:

- The addition of a standard condition for landfill gas management at landfills;
- A change to the hydrogeological risk assessment condition so that reviews are undertaken every 6 years rather than every 4 years;
- Standard leachate and groundwater quality monitoring tables (schedule 3); and
- A standard reporting table (schedule 4).

Schedule 1 to this notice summarises the changes we have made to this permit.

The status log sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application BS7951IB	Duly made 15/12/03	Application for disposal of waste in a landfill receiving more than 10 tonnes of waste in any day or with a total capacity of more than 25,000 tonnes (Landfill for non-hazardous waste). EPR reference EPR/BS7951IB/A001
Permit determined BS7951IB (Billing ref. BS7951IB)	18/05/05	Original permit issued to Viridor Waste Management Limited. EPR reference EPR/BS7951IB
Application EPR/BS7951IB/V002	Duly made 30/01/07	Variation to extend the permitted site boundary south of Cells 2, 4 and 5.
Variation determined	13/11/07	Varied permit issued.

Status log of the permit		
Description	Date	Comments
EPR/BS7951IB/V002 (Billing ref. TP3632LX)		
Application EPR/BS7951IB/V003	26/03/08	Variation to update permit conditions.
Variation determined EPR/BS7951IB/V003 (Billing ref. TP3938XC)	26/03/08	Varied and consolidated permit issued in modern condition format.
Agency initiated variation EPR/BS7951IB/V004	15/06/07	Agency initiated variation to amend the permit resulting from resolution of the appeals against the conditions of permit BS7340IB and variation TP3938XC All decisions are incorporated into variation EPR/BS7951IB/V006 V006 (reference BP3132GY)
Application EPR/BS7951IB/V005	Duly made 22/11/08	Variation to approve the operation of a landfill gas flare.
Variation application EPR/BS7951IB/V006	Duly made 07/04/09	Variation approving the operation of a temporary waste transfer area for use during bad weather conditions and a review of the risk assessments in compliance with the improvement condition IP1 of variation TP3632LX, to extend the area of the landfill.
Agency variation EPR/BS7951IB/V004 (Billing ref. EP3732US), Variation determined EPR/BS7951IB/V005 (Billing ref. SP3336GS), and Variation determined EPR/BS7951IB/V006 (Billing ref. BP3132GY).	08/07/09	Varied permit, EPR/BS7951IB/V004 & EPR/BS7951IB/V005 issued under the consolidated permit EPR/BS7951IB/V006. All decisions are incorporated into variation EPR/BS7951IB/V006 (reference BP3132GY)
Variation application EPR/BS7951IB/V007	Duly made 02/02/10	Variation to: <ul style="list-style-type: none"> • Add temporary green waste shredding facility. • Adjust the cell layouts to that shown on Drawing 3. • Adjust the basal levels of the site as shown in the cross section within Drawing 5 in the existing Cells 5, 6, and 7
Variation determined EPR/BS7951IB/V007 (Billing ref: MP3733TF)	21/10/2010	Varied permit issued.
Application EPR/BS7951IB/V008	Duly made 17/03/11	Application to amend asbestos monitoring requirements and for IBA and hardcore storage and treatment

Status log of the permit		
Description	Date	Comments
(variation only)		facility.
Response to Schedule 5 Notice dated 01/04/2011	28/04/11	Confirmation of waste codes, surface water management, waste storage, environmental risk assessment, monitoring and site plan.
Additional information received	21/07/11	Confirmation of storage arrangements for treated IBA and hardcore.
	19/01/12	Confirmation that pre-acceptance procedures will be in accordance with guidance.
Variation determined EPR/BS7951IB (Billing ref. SP3631HQ)	15/10/12	Varied permit issued.
Application EPR/BS7951IB/V009 (variation only)	Duly made 23/10/12	Variation to: <ul style="list-style-type: none"> • Change the location of the Waste Transfer and Recycling Facility. • Add new waste codes and • Reduce the maximum quantity of waste to 120,000 tonnes at the Waste Transfer and Recycling Facility.
Variation determined EPR/BS7951IB (Billing ref. BP3130ZC)	29/11/12	Varied permit issued.
Application EPR/BS7951IB/V010 (variation only)	Duly made 16/04/13	To add two additional EWC codes: 15 01 07 Glass packaging and 17 02 02 Glass.
Variation EPR/BS7951IB/V010 determined (Billing ref. XP3730NH)	17/04/13	Varied permit issued.
Environment Agency Landfill Sector Review 2013 Permit reviewed EPR/BS7951IB/V011 Permit EPR/BS7951IB (Billing ref. EP3237VL)	24/09/14	Varied and consolidated permit issued in modern condition format

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Viridor Waste Management Limited	EPR/BU9068IM Pilsworth North Landfill	06/05/04

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

permit number

EPR/BS7951IB

issued to

Viridor Waste Management Limited (“the operator”)

whose registered office is

Peninsula House

Rydon Lane

Exeter

Devon

EX2 7HR

company registration number 00575069

to operate regulated facilities at

Pilsworth South Landfill Site

Pilsworth Road

Bury

Lancashire

BL9 8QZ

to the extent set out in the schedules.

The notice shall take effect from 24/09/2014

Name

Date

Claire Roberts

24/09/2014

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation. The following table summarises the latest changes to the landfill permit template, however your permit may contain more changes than this where your permit has not been varied to recent template conditions.

Condition	Description of change
1.5	Generic condition to reflect the requirements of the Waste Framework Directive.
2.7.1(a)	Added reference to a specific table to clarify what wastes are permitted by which permitted activity.
2.7.2	Added to allow the receipt of liquid waste for treatment in a leachate treatment plant, where necessary.
2.7.3	Added to separately identify the waste types and quantities that can be accepted for restoration.
2.10	Revised gas management condition imposed for all landfills.
3.1.1	Generic condition imposed on all activities to simplify sub-conditions
3.1.4 to 3.1.5	Revised conditions to reflect the terminology used by the Groundwater Directive for 'hazardous substances' and to require hydrogeological risk assessment reviews are submitted every 6 years rather than every 4 years.
	Sub-condition that referred to emission of 'non-hazardous pollutants' deleted. Such emissions are regulated by condition 3.2.
	Two sub-conditions that referred to limits in specific tables in schedule 3 deleted as they are now covered by 3.1.1.
3.6	Revised generic pests condition imposed on all activities.
4.2.2	Amended to ensure that information on 'annual production/ treatment' (Schedule 4, Table S4.2) is provided in February each year where annual reports may be submitted at other times of the year.
4.2.2(a)	Text expanded to clarify the details we require in an annual report.
4.2.2(h)	New condition requiring annual submission of a plan of monitoring and extraction locations with reference to monitoring tables in schedule 3
4.3.1	Generic notifications condition added.
Schedules	
Table S1.1	Amended description of the landfill activity to clarify that this includes restoration. Activity references amended to reflect changes introduced by Industrial Emissions Directive (2010/75/EU).
	Leachate storage moved from a specified activity to Directly Associated Activities.
Table S1.3	Amended to clarify that restoration is a separate part of the activity unrelated to landfill cover.
Schedule 2	Standard list of wastes added.
Schedule 3	Monitoring and compliance tables have been re-ordered so that those with compliance limits appear first. Standard monitoring frequency and parameters have been included for certain routine monitoring requirements
Table S3.7	Specific requirements for monitoring asbestos fibres added, where necessary.

Table S4.1	Amended to only require regular reports of information that relate to compliance limits.
Table S4.2	Additional details of landfill gas extracted required to improve climate change data quality.
Table S4.3	Amended to include natural gas as an energy source for consistency with other sectors.
Schedule 6	Definitions added to clarify meaning of: <ul style="list-style-type: none"> • Inert waste • Exceeded • Hazardous substance • Medicinal product • Previous year • Waste acceptance criteria • Waste acceptance procedure

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/BS7951IB

This is the consolidated permit referred to in the variation and consolidation notice for Environment Agency initiated variation EPR/BS7951IB/V011 authorising,

Viridor Waste Management Limited (“the operator”),
whose registered office is

Peninsula House
Rydon Lane
Exeter
Devon
EX2 7HR

company registration number 00575069

to operate an installation at

Pilsworth South Landfill Site
Pilsworth Road
Bury
Lancashire
BL9 8QZ

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Claire Roberts	24/09/2014

Authorised on behalf of the Environment Agency

Conditions

1. Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency 18-5-2008 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.3 Energy efficiency

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2.) The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) Review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) Implement any appropriate measures identified by a review.

1.4 Efficient use of raw materials

- 1.4.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2.) the operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;

- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.5 Avoidance, recovery and disposal of wastes produced by the activities

1.5.1 The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every four years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (A7 to A9) waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ('plan') specified in schedule 1, table S1.2 or otherwise required under this permit, which identifies and minimises the risks of pollution relevant to that plan and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

Hazardous waste storage and treatment

- 2.3.2 For the following activities referenced in schedule 1, table S1.1 (A8) hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1, table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

2.6 Landfill Engineering

- 2.6.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.6.3 The construction of a new cell shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.6 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.7 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.6.9 For the purposes of conditions 2.6.1, 2.6.2, 2.6.4 and 2.6.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or

- (b) informed the operator that it requires further information.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.7 Waste acceptance

- 2.7.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2) wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 2, tables S2.1 and S2.3; and
 - (b) they are non-hazardous waste or asbestos and construction materials containing asbestos and
 - (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) they are not shredded used tyres, and
 - (e) they are not liquid waste (including waste waters but excluding sludge and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
 - (g) all the relevant waste acceptance procedures have been completed, and
 - (h) they fulfil the relevant waste acceptance criteria, and
 - (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, and
 - (k) they are wastes with a code beginning with 07 05 and 16 03, but excluding waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.7.2 For the following activities referenced in schedule 1, table S1.1 (A7 to A9) waste shall only be accepted for treatment if:
- (a) it is of a type and quantity listed in schedule 2, tables S2.4, S2.5 and S2.6; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.7.3 Wastes shall only be accepted for restoration where:
- (a) they are listed in schedule 2, table S2.2 and
 - (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.
- 2.7.4 For the following activities referenced in schedule 1, table S1.1 (A2) asbestos containing wastes and construction materials containing asbestos shall only be disposed of with other suitable wastes and not in cells containing biodegradable non-hazardous waste. Asbestos waste and construction material containing asbestos must meet the relevant waste acceptance criteria and must be covered daily and before each compaction operation with appropriate material.

- 2.7.5 For the following activities referenced in schedule 1, table S1.1 (A1 to A2) the operator shall visually inspect:
- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;
- and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.
- 2.7.6 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.7.7 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing LE 02574/14 dated March 2003.
- 2.7.9 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.7.10 For the following activities referenced in schedule 1, table S1.1 (A1 to A2) the operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.
- 2.7.11 The operator shall maintain and implement a system to record the disposal location of any hazardous waste.
- 2.7.12 For the following activities referenced in schedule 1, table S1.1 (A7 to A9) the operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.7.13 For the following activities referenced in schedule 1, table S1.1 (A7 to A9) the operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.8 Leachate levels

- 2.8.1 The limits for the level of leachate listed in schedule 3, table S3.1 shall not be exceeded.

2.9 Closure and aftercare

- 2.9.1 The operator shall maintain a closure and aftercare management plan.

2.10 Landfill gas management

- 2.10.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.10.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.
- 2.10.3 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
 - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits in schedule 3 shall not be exceeded.
- 3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, S3.3 and S3.6.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1 (A4) compliance with an emission limit in table S3.2 shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the fourth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
- (a) Leachate specified in tables S3.1 and S3.11;
 - (b) Point source emissions specified in tables S3.2, S3.3 and S3.6;
 - (c) Groundwater specified in tables S3.4 and S3.9;
 - (d) Landfill gas specified in tables S3.5, S3.8 and S3.10;
 - (e) Surface water specified in table 3.12;
 - (f) Particulate matter specified in table S3.7; and
 - (g) Ambient air specified in table S3.13.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 A topographical survey of the site referenced to ordnance datum shall be carried out:
- (a) annually, and

- (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
- (c) following closure of the landfill or part of the landfill.

The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the site.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
 - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - i. the results of groundwater monitoring;
 - ii. sub-surface landfill gas monitoring;
 - iii. leachate levels, quality and quantities;
 - iv. landfill gas generation and collection;
 - v. waste types and quantities;
 - vi. the location of hazardous waste deposits; and
 - vii. the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
 - (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
 - (c) the annual production/ treatment set out in schedule 4, table S4.2;
 - (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
 - (e) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
 - (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (h) a plan(s) ('the monitoring and extraction point plan - MEPP') showing the locations of leachate and landfill gas extraction and all monitoring points.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4, table S4.1;
 - (b) using the forms specified in schedule 4, table S4.4 or other reporting format as agreed in writing with the Environment Agency; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately;
- (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- 4.3.4 In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	D5 –Specially engineered landfill and R10 – Land treatment resulting in benefit to agriculture or ecology	Section 5.2 Part A(1) (a), The disposal of waste in a landfill.	Landfill for non-hazardous waste and landfill restoration	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling. Waste types for restoration, as specified in table S2.2, to be agreed in accordance with IP4, Table S1.3.
A2	D5 –Specially engineered landfill	Section 5.2 Part A(1) (a), The disposal of waste in a landfill.	Landfill for Hazardous Waste (Asbestos)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling.
Directly Associated Activities				
A3	N/A		Temporary storage of landfill leachate	Leachate arising from the landfill.
A4	N/A		Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.
A5	D6 – release to water body except seas/ oceans		Discharges of site drainage from the landfill.	From surface water and groundwater management system to point of entry to controlled waters.
A6	N/A		Storage of fuel for operation of plant and equipment.	Bunded fuel storage tank.
Waste operations				
A7	<p>R3: Recycling / reclamation of organic substances which are not used as solvents</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p>	N/A	Temporary Green Waste Shredding Facility	<p>The activity shall cease on 12 November 2011.</p> <p>Waste types specified in Table S2.4</p> <p>Minimum on-site storage time before and after shredding of 2 days</p>

Table S1.1 activities

Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A8	<p>D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>R3: Recycling / reclamation of organic substances which are not used as solvents</p> <p>R4: Recycling / reclamation of metals and metal compounds</p> <p>R5: Recycling / reclamation of other inorganic compounds</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage,</p>	N/A	Waste Transfer and Recycling Facility	<p>The maximum quantity of asbestos waste received at the site shall not exceed 10 tonnes per day.</p> <p>The maximum quantity of asbestos waste stored at the site shall not exceed 10 tonnes.</p> <p>Treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing or compaction of non-hazardous waste into different components for disposal (no more than 50 tonnes per day) or recovery.</p> <p>There shall be no treatment of asbestos waste.</p> <p>Waste types as specified in Table S2.5</p>

Table S1.1 activities

Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
	pending collection, on the site where it is produced)			
A9	<p>R4: Recycling / reclamation of metals and metal compounds</p> <p>R5: Recycling / reclamation of other inorganic compounds</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p>	N/A	Incinerator Bottom Ash and Hardcore Waste Storage and Treatment Facility	<p>Maximum storage of 3000 tonnes at any one time.</p> <p>Treatment consisting only of screening and metals removal.</p> <p>The treatment of Incinerator Bottom Ash shall not exceeding 75 tonnes per day.</p> <p>Waste types as specified in Table S2.6.</p>

Table S1.2 Operating techniques

Description	Parts	Date Received
Application		
The response to questions 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form.	All parts.	03/12/2003
Water Management Plan.	All Parts.	07/12/2005
Asbestos Fibre Monitoring Plan submitted by Viridor Waste Management Limited.	All parts.	09/11/2006
Variation Application TP3632LX (reference ERP/BS79511B/V003)	The response to questions within Parts A, C and F of the Variation Application Form	02/02/2007
	<p>The following document pertaining to the use of additional areas of land to extend Cells 2, 4, and 5 of the installation for the deposit of waste:</p> <p>Document LE03571, Report number 001, dated January 2007 entitled Viridor Waste Management Limited, Pilsworth South Extension, including Appendix 1 and drawings numbered LE03571/ 001, LE03571/ 002, LE03571/ 003, LE03571/ 004 and E03571/005;</p> <p>Document LE03571, Report number 002, dated January 2007 entitled Hydrogeological Risk Assessment, including Appendices HRA1, HRA2 and HRA3;</p>	02/02/2007

Table S1.2 Operating techniques

Description	Parts	Date Received
	Document LE03571, Report number 003, dated January 2007 entitled Landfill Gas Risk Assessment, including Appendices LFGRA 1, LFGRA2, LFGRA3, LFGRA4 and LFGRA5; Document LE03571, Report Number 004, dated January 2007 entitled Nuisance and Health Risk Assessment, including Appendices NHRA 1 and NHRA2.	
	Drawing LE03571-002 revision A, October 2007.	17/10/2007
Variation EPR/BS7951IB/V004 (reference EP3732US).	Asbestos monitoring plan VWM/Env/PS/AMP/Dec08 dated 30 December 2008.	16/01/2009
	Odour monitoring plan VWM/Env/T/PS/OMP v1.1 dated January 2009.	16/01/2009
	Particulate monitoring and action plan reference VWM/Env/PS/PMP/Feb09 dated 17 February 2009.	17/02/2009
	Revised HRA (SLR 402_0036_00304_07) dated November 2008 and addendum 402-0036-00304-7 dated 08/01/2009.	17/11/2008 and 09/01/2009
Variation application EPR/BS7951IB/V005 (reference SP3336GS).	The response to questions within Parts A, C and F of the Variation Application Form.	16/01/2009
Variation application EPR/BS7951IB/V006 (reference BP3132GY).	The response to questions within Parts A, C and F of the Variation Application Form.	18/03/2009
Surface Water Management Plan	Pilsworth South revised Surface Water Management Plan (PS/SWMP/July 2009).	03/07/2009
Variation application EPR/BS7951IB/V007 (reference MP3733TF)	The response to questions within Parts A, C and F of the Variation Application Forms, including supporting information: SLR Ref:402.0036.00405/NTS – Supporting Statement and Non-Technical Summary, August 2009, including Drawings 1 - 6 and Appendix 1. SLR Ref:402.0036.00405/LFGRA – Landfill Gas Risk Assessment, August 2009, including drawing LFGRA 1 and Appendices 1 – 7. SLR Ref:402.0036.00405/H1 – Waste Facility H1 Environmental Risk Assessment, August 2009, including drawing H1. SLR Ref:402.0036.00405/OT – Waste Facility Operating Techniques, August 2009.	22/01/2010
Variation application EPR/BS7951IB/V008 (Billing ref: SP3631HQ)	Appendix NTS1 'Review of Asbestos Monitoring Requirements' (Revision 1, dated December2010) of the application document.	17/01/2011
Additional information	'Non Technical Summary and Supporting Statement (dated March 2011) in response to section 3a – technical standards, Part B4 of the application form	08/03/2011
Response to Schedule 5 Notice dated 01/04/11	For the IBA and hardcore waste storage and treatment facility: Responses to questions 2 and 3 detailing surface water management; Responses to questions 6 and 7 detailing waste storage	28/04/2011

Table S1.2 Operating techniques

Description	Parts	Date Received
	arrangements; and Response to question 9 detailing monitoring of emissions and the 'Fugitive Emissions Management Plan' (dated April 2011).	
Additional information	All parts of email confirming that screened IBA/hardcore material will be stored appropriately.	21/07/2011
	All parts of email confirming pre-acceptance procedures for surface water transferred to Pilsworth North Landfill.	19/01/2012
Variation application EPR/BS7951IB/V009	All parts	03/10/2012
Additional information	Additional information ref: Le02-VWML MTecV excluding Drawing PWS023 sent via email on 22/10/2012.	22/10/2012
Additional information	Drawing PWS23 submitted via email on 23/10/2012.	23/10/2012
Additional information	Confirmation on asbestos storage arrangements submitted via email on 22/11/2012.	22/11/2012

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP1	Following the installation of new leachate extraction and monitoring points the Operator shall provide the Agency with 'as built' drawing of all completed landfill infrastructure. The drawing must show the location and nomenclature of all the completed leachate extraction and monitoring points.	Within 2 months of completion
IP2	The Operator shall submit to the Agency, for its agreement in writing, an addendum to the Landfill Gas Management Plan in accordance with the Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03) which will include a review of the landfill gas monitoring data for borehole PS008GM. The review shall include control and emission limits for Carbon Dioxide.	31/12/2014
IP3	The Operator shall submit to the Agency, for its agreement in writing, a revised Perimeter/Offsite Gas Risk Assessment which will include a review of the landfill gas monitoring data for all perimeter boreholes the review shall include control and emission limits for Methane and Carbon Dioxide.	31/03/ 2015
IP4	The operator shall submit to the Environment Agency in writing for approval a restoration plan for the site which includes waste types and waste acceptance criteria for wastes for restoration (2.7.3).	24/12/2014

Table S1.4 Pre-operational requirements

Reference	Requirement	Date
1	Prior to the deposit of waste in any new cell the Operator shall submit to the Agency, for its agreement in writing, an addendum to the Landfill Gas Management Plan in accordance with the Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03) which will include a review of the landfill gas monitoring data for boreholes PS025RGM, PS038GM, PS039GM, PS040GM, PS041GM, PS042GM, PS043GM, PS044GM and PS045GM. The review shall include control and emission limits for Methane and Carbon Dioxide.	Two months prior to deposit of waste in any new cell.
2	Waste deposit in Cells 7 and 8: Unless agreed otherwise with the Agency, prior to the deposit of waste in any new cell the Operator shall progressively install and monitor the proposed perimeter landfill gas monitoring points as shown on drawing reference LE03571/007 revision 0 dated September 2006 so as to ensure that the installed boreholes extend 50 metres past the construction of each cell.	Twelve months prior to deposit of waste in any new cell.
3	Waste deposit in Cells 6, 7 and 8: Prior to the deposit the Operator shall submit to the Agency, for its agreement in writing, an addendum to the Landfill Gas Management Plan in accordance with the Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03) which will include a review of the landfill gas monitoring data for boreholes installed in compliance with reference 2 above. The review shall include control and emission limits for Methane and Carbon Dioxide.	2 months after completion of PO2.

Table S1.5 Annual waste input limits

Category	Limit Tonnes/ Year
Non-hazardous waste	600,000
Asbestos waste and construction material containing asbestos	50,000
Waste for restoration	To be agreed in accordance with IP4, Table S1.3.
Total	600,000

Schedule 2 - List of permitted wastes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	wastes from mineral excavation
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02	HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 02	liming waste
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	organic matter from natural products (for example grease, wax)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and metallic oxides
06 03 14	solid salts other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	wastes containing silicones other than those mentioned in 07 02 16
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	wastes from MFSU and removal of paint and varnish
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 01	waste coating powders
08 02 02	aqueous sludges containing ceramic materials
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 15	ink sludges other than those mentioned in 08 03 14

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 02	zinc ash
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 02	ferrous metal dust and particles
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 19	plastic
16 01 20	glass
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 02	glass
17 02 03	plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	metals (including their alloys)
17 04 11	cables other than those mentioned in 17 04 10
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	chemicals other than those mentioned in 18 01 06
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	stabilised/solidified wastes ¹
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	sludges from regeneration of ion exchangers
19 10	wastes from shredding of metal-containing wastes
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05

¹ Stabilisation processes change the dangerousness of the constituents in the waste and thus transform hazardous waste into non-hazardous waste. Solidification processes only change the physical state of the waste (e.g. liquid into solid) by using additives without changing the chemical properties of the waste.

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste

Waste code	Description
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 01 99	dog faeces and municipal office feminine hygiene waste not from healthcare and not subject to special requirements in order to prevent infection.
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.2 Permitted waste types accepted for restoration

Waste code	Description
To be agreed in accordance with IP4, Table S1.3.	

Table S2.3 Permitted waste types for disposal in the asbestos cell

Waste code	Description
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 13	Wastes from inorganic chemical processes not otherwise stated
06 13 04*	wastes from asbestos processing
10	WASTES FROM THERMAL PROCESSES
10 13	Wastes from the manufacture of cement, lime and plaster articles and products made from them
10 13 09*	Waste from asbestos cement manufacture containing asbestos
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Packaging (including separately collected municipal packaging waste)
15 01 11*	Metallic packaging containing a dangerous soled porous matrix (for example asbestos) including empty pressure containers
16	WASTES NOT OTHERWISE SPECIFIED ON THE LIST
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance
16 01 11*	brake pads containing asbestos
17	Construction and Demolition Wastes (including excavated soils from contaminated sites)
17 06	Insulation materials and asbestos containing construction materials
17 06 01*	Insulation materials containing asbestos
17 06 05*	Construction materials containing asbestos

Table S2.4 Permitted waste types and quantities for the Temporary Green Waste Shredding Facility

Maximum quantity	115,000 tonnes per annum
Waste code	Description
20 02 01	Biodegradable waste

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
Waste Code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS.
01 01	Wastes from mineral excavation
01 01 01	Wastes from mineral metalliferous excavation
01 01 02	Wastes from mineral non-metalliferous excavation
01 03	Wastes from physical and chemical processing of metalliferous minerals
01 03 06	Tailings other than those mentioned in 01 03 04 and 01 03 05 of metalliferous minerals
01 03 08	Dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	Red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	Wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
01 04 10	Dusty and powdery wastes other than those mentioned in 10 04 07
01 04 11	Wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	Tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
01 04 13	Wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	Drilling muds and other drilling wastes
01 05 04	Freshwater drilling muds and wastes
01 05 07	Barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	Chloride-containing drilling muds and wastes other than those mentioned 01 05 05 and 01 05 06
02	HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	Sludge's from washing and cleaning
02 01 03	Plant-tissue waste
02 01 04	Waste plastics (except packaging)
02 01 06	Animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	Wastes from forestry
02 01 09	Agrochemical waste other than those mentioned in 02 01 08
02 02	Wastes from the preparation and processing of meat, fish, and other foods of animal origin.
02 02 01	Sludge's from washing and cleaning
02 02 03	Materials unsuitable for consumption or processing
02 02 04	Sludge's from on-site effluent treatment
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	Wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	Materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	Wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	Wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	Wastes from the baking and confectionery industry
02 06 01	Materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
02 07 05	sludges from on-site effluent treatment
03	PULP, PAPER AND CARD
03 01	Waste from wood processing and the production of panels and furniture
03 01 01	Waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	Wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	Fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	Wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 02	liming waste
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 09	wastes from dressing and finishing
04 02	Wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	organic matter from natural products (for example grease, wax)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20	Sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	Wastes from inorganic chemical processes not otherwise stated
06 13 03	carbon black
06 13 04 *	wastes from asbestos processing
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	Wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	wastes containing silicones other than those mentioned in 07 02 16
07 03	Wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	Wastes from MFSU and removal of paint and varnish
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
08 01 14	Sludges from paint or varnish other than those mentioned in 08 01 13
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02	Wastes from MFSU of other coatings (including ceramic materials)
08 02 01	Waste coating powders
08 02 02	aqueous sludges containing ceramic materials

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
08 03	Waste from MFSU of printing inks
08 03 07	Aqueous sludges containing ink
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	Waste printing toner other than those mentioned in 08 03 17
08 04	Wastes from the MFSU of adhesives and sealants (including water-proofing products)
08 04 10	Waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	Adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	Wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	Wastes from the aluminium thermal industry
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	Wastes from the casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
	in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	Wastes from the manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	Wastes from the manufacture of cement, lime and plaster articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 09 *	Waste from asbestos cement manufacture containing asbestos
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 02	zinc ash
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 02	ferrous metal dust and particles
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Packaging (including separately collected municipal packaging waste)
15 01 02	Plastic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	textile packaging
15 01 11 *	Metallic packaging containing a dangerous soled porous matrix (for example asbestos) including empty pressure containers
15 02	Absorbents, filter materials, wiping cloths and protective clothing
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	WASTES NOT OTHERWISE SPECIFIED ON THE LIST
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance
16 01 11*	brake pads containing asbestos
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 19	plastic
16 01 20	glass
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	gases in pressure containers and discarded chemicals
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	Construction and Demolition Wastes (including excavated soils from contaminated sites)
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 02	glass
17 02 03	Plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	Metals (including their alloys)
17 04 11	cables other than those mentioned in 17 04 10
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	Insulation materials and asbestos containing construction materials
17 06 01 *	Insulation materials containing asbestos
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05 *	Construction materials containing asbestos
17 09	Other construction and demolition wastes
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)
18 01	Waste from natal care, diagnosis, treatment or prevention of disease in humans.
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	chemicals other than those mentioned in 18 01 06
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
	CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	Wastes from physio/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	Sludges from physio/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	stabilised/solidified wastes
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	Waste from waste water treatment not otherwise specified
19 08 01	Screenings
19 08 02	Waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	Wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	sludges from regeneration of ion exchangers
19 10	wastes from shredding of metal-containing wastes
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05

Table S2.5 Permitted waste types and quantities for the Waste Recycling Facility

Maximum quantity	120,000 tonnes per annum for the Waste Transfer and Recycling Facility
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	Wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
20	MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 01 99	dog faeces and municipal office feminine hygiene waste not from healthcare and not subject to special requirements in order to prevent infection.
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste
20 02 02	Soil and stones
20 02 03	other non-biodegradable wastes
20 03	Other municipal wastes
20 03 01	Mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.6 Permitted waste types and quantities for the Incinerator Bottom Ash and Hardcore Waste Storage and Treatment Facility

Maximum quantity	21,000 tonnes per annum
Waste code	Description
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction Products
10 12 08	waste ceramics, bricks, tiles and construction products(after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete only
17 01	Concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	Bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 1701 06
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 08	track ballast other than those mentioned in 17 05 07
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01,1709 02 and 170903

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring standard and method
Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with condition 2.6)			
PS010LM, PS011LM, PS012LM, PS013LM, PS014LM, PS015LM, PS016LM, PS017LM, PS018LM, PS019LM, PS020LM, PS021LM, PS022LM, PS023LM, PS024LM on plan PWS3000	1.5 m above cell base	Monthly	As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
Non Operational Cells or Phases (Any cells or phases that have a final engineered cap agreed in accordance with condition 2.6)			
PS001LM, PS002LM, PS003LM, PS004LM, PS005LM, PS006LM, PS007LM, PS008LM, PS009LM on plan PWS3000	1.5 m above cell base	Quarterly	As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.

Table S3.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
FLARE 1 as shown on drawing 1 dated September 2008 submitted with application SP3336GS.	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency. Monitoring is unnecessary where the flare is active for <10% of the year.
	CO		100 mg/m ³			
	Total VOCs		10 mg/m ³			

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location (1) (2)	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Surface Water discharge points: PSW1SW and PSW2SW.	Suspended solids	Site drainage consisting of the run-off derived from the Landscape Buffer Zone, restored landfill and water collected within the void created by the former quarry excavation and uncontaminated run off from the Waste Recycling Facility.	40 mg/l	Spot sample	Monthly	Monitoring to be carried out in accordance with Environment Agency Guidance Document 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water (LFTGN02)', unless otherwise agreed in writing with the Agency.
	pH		No less than 6, and no more than 9 pH units	Spot sample	Monthly	
	Oil or grease		No visible discharge	Observation	Monthly	
	Ammoniacal nitrogen		2.0 mg/l (3)	Spot sample	Monthly	
	Chloride		250 mg/l	Spot sample	Monthly	
PSW1SW	Maximum daily volume		5000m ³	Continuous	Daily	
<p>(1) Monitoring points are as shown on drawing PWS3000.</p> <p>(2) Receiving waters are an un-named tributary of Long Lodge, itself a tributary of Hollins Brook.</p> <p>(3) Assessed against a rolling average concentration derived from the three most recent consecutive datasets.</p>						

Table S3.4 Groundwater – emission limits and monitoring requirements

Monitoring point reference (1)	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
PS024SG, PS025SG and PS026SG (2)	Ammoniacal nitrogen	1.95 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, (April 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride	250 mg/l			
	Nickel	0.02 mg/l			
	Cadmium	0.00055 mg/l			
	Phenol	0.0005 mg/l			
	Toluene	0.004 mg/l			
	o-xylene	0.003 mg/l			
	m,p-xylene	0.003 mg/l			
	Naphthalene	0.0005 mg/l			

Table S3.4 Groundwater – emission limits and monitoring requirements

Monitoring point reference (1)	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
(1). All monitoring points are as shown on drawing PWS3000.					
(2). Emission limits apply after cessation of groundwater pumping.					

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description (2)	Parameter	Limit (including units) (1)(4)	Monitoring frequency	Monitoring standard or method
PS004GM, PS005GM, PS006GM, PS007GM, PS008GM, PS009GM, PS010GM, PS011AGM, PS012AGM, PS013AGM, PS017GM, PS018GM, PS019GM, PS020GM, PS021GM, PS022GM, PS023GM and PS024GM	Methane	1 % v/v	Monthly	As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: <ul style="list-style-type: none"> • waterlogged • frozen • snow covered
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential pressure	no limit		
PS004GM	Carbon Dioxide	9.5 % v/v		
PS005GM		9.5 % v/v		
PS006GM		13.0 % v/v		
PS007GM		10.5 % v/v		
PS008GM		(3)		
PS009GM		12.0 % v/v		
PS010GM		9.0 % v/v		
PS011AGM		8.0 % v/v		
PS012AGM		5.5 % v/v		
PS013AGM		10.5 % v/v		
PS017GM		10.0 % v/v		
PS018GM		18.5 % v/v		
PS019GM		15.0 % v/v		
PS020GM		9.5 % v/v		
PS021GM		4.0 % v/v		
PS022GM		4.5 % v/v		
PS023GM		7.0 % v/v		
PS024GM		8.0 % v/v		
PS001GM, PS002GM, PS003GM, PS004AGM, PS006AGM, PS014AGM, PS015GM, PS016GM, PS025RGM, PS038GM, PS039GM, PS040GM, PS041GM, PS042GM, PS043GM, PS044GM and PS045GM.	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential pressure	None set	Monthly	

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description (2)	Parameter	Limit (including units) (1)(4)	Monitoring frequency	Monitoring standard or method
<p>(1) The limits specified take into account the background concentrations agreed with the Agency 13th February 2009.</p> <p>(2) All borehole locations are as shown on drawing PWS3000.</p> <p>(3) Emission limit to be determined in accordance with improvement condition Table S1.3 reference 2.</p> <p>(4) Emission limit to be determined in accordance with improvement condition Table S1.3 reference 3</p>				

Table S3.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Point on the permit boundary where leachate pipework leave the site as shown on Drawing H1a	No parameter set	IBA and hardcore Storage and treatment area	No limit set	-	-	

Table S3.7 Particulate matter in ambient air - monitoring requirements

Monitoring Point Ref. /Description (1)	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method
20m downwind of asbestos disposal cell	Asbestos Fibres	Where total fibre concentration exceeds 0.01 fibres/ ml in any sample, that sample must be	2 hours	Twice per year or every 5000 tonnes asbestos deposited, whichever is greater.	While asbestos is being deposited. <ul style="list-style-type: none"> • Pumped sampling • 1m above ground level • Flow rate = 4 litres/ minute • Minimum sample volume = 480 litres • Filter pore size = 1.2µm Asbestos fibre limit of detection = 0.001 fibres/ ml
50m upwind of asbestos disposal cell	Asbestos Fibres	submitted for electron microscopy to confirm the	2 hours	During all downwind monitoring	
Site boundary downwind of asbestos disposal cell	Asbestos Fibres	concentration of asbestos fibres present	2 hours	Minimum twice per year.	
PS01PM (upwind)	PM ₁₀	None set	Continuous for 24 hours	Quarterly	In accordance with Agency Guidance 'M17 – Monitoring of Particulate Matter in ambient air around waste facilities', or any subsequent guidance.
PS03PM (downwind)		40µg/m ³ - annual mean. 50µg/m ³ - 24 hour mean, not to be exceeded >35 times per year			
PS01DG, PS03DG, PS04DG and PS05DG.	Deposited particulate	200 mg.m ⁻² day ⁻¹	Monthly	Continuous	
PS06DG and PS07DG.		None set			

(1) As shown on drawing PWS3000.

Table S3.8 Landfill gas emissions from capped surfaces – monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Temporarily capped zone	Methane concentration	Every 12 months	
Whole site	Total methane emission	As agreed with the Environment Agency	
Uncapped areas	Methane concentration	Every 12 months	As agreed with the Environment Agency based on the wording of revised LFTGN 07 (v2 2010) or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.9 Groundwater – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method
Sands and Gravels Aquifer			
Up gradient MEPP	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance 'TGN02 - Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, (April 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	
	Hazardous substances	Annually for first six years of operation	
Down or cross gradient MEPP	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance 'TGN02 - Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, (April 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	
	Hazardous substances detected in leachate	Annually for first six years of operation then every two years	After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.

MEPP	Base of monitoring point (mAoD)	Annually	
Coal Measures Aquifer			
MEPP	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH,	Quarterly	As specified in Environment Agency Guidance 'TGN02 - Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, (April 2010), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Base of monitoring point (mAoD)	Annually	

Table S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly until gas extraction commences	Calibrated handheld monitoring instrument	For cells or phases which have no active gas extraction. Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.
	Hydrogen sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	For cells or phases which have no active gas extraction. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans

Table S3.10 Landfill gas – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Monthly or at such other frequency as may be agreed in writing with the Environment Agency.	Calibrated handheld monitoring instrument	Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertake Record the ambient air temperature and whether the ground is: <ul style="list-style-type: none"> • waterlogged • frozen • snow covered
Gas collection system at well control valve	Hydrogen sulphide	Six monthly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
Input to flare or LFG Utilisation Compound	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 or such other subsequent guidance as may be agreed in writing with the Environment Agency [or a trace gas characterisation method agreed with the Environment Agency].	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.

Table S3.10 Landfill gas – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Input to flare or LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Weekly		Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken.
FLARE 1 as shown on drawing 1 dated September 2008 submitted with application SP3336GS.	Temperature	As per LFTGN05 (v 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency.	

Table S3.11 Leachate – other monitoring requirements

Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.6)			At leachate compliance point as listed in table S3.1.	None
MEPP	pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese	Quarterly	As specified in Environment Agency Guidance TGN02 (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, April 2010, with one sampling point per cell / phase or such other subsequent guidance as may be agreed in writing with the	
MEPP	Hazardous substances	Annually		None

Table S3.11 Leachate – other monitoring requirements

Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MEPP	Depth to base (mAoD)	Annually	Environment Agency.	None
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.6)				
MEPP	pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese	Annually		
MEPP	Hazardous substances	Once every four years		None
MEPP	Depth to base (mAoD)	Annually		

Table S3.12 Surface water – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MEPP	Ammoniacal nitrogen Chloride Suspended Solids Visual Oil and Grease pH electrical conductivity	Monthly	Spot sample	As specified in Environment Agency Guidance 'TGN02 - Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, April 2010 or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.13 Ambient air – other monitoring requirements

Monitoring point Ref. /Description	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
FID Monitoring locations as shown on drawing PWS3000.	Methane in ambient air	10 ppmv	Spot sample	Monthly	Flame Ionisation Detector

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting requirements		
Parameter	Reporting period *	Period ends
Leachate and/ or groundwater level As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to air As specified by schedule 3, table S3.2	Every 12 months	31 December
Point source emission to water (other than sewer) As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Particulate matter in ambient air. As required by schedule 3, table S3.7	Every 6 months	30 June, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.8	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.9	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.10	Every 3 months	31 March, 30 June, 30 September, 31 December
• Trace gas monitoring	Every 12 months	31 December
Other leachate monitoring As specified by schedule 3, table S3.11	Every 12 months	31 December
• Hazardous substances	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.12	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	Every 12 months	31 December
Other ambient air monitoring As specified by Schedule 3, table S3.13	Every 12 months	31 December

* - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2.

Table S4.2: Annual production/treatment

Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass. Accepted from offsite for treatment at any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation. Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring) Methane generation rate (50%ile from a representative model)	Normalised cubic metres/year % methane v/v m ³ /hr

Table S4.3 Performance Parameters

Parameter	Frequency of assessment	Annual total	Unit
Energy used (including for leachate treatment)	Annually		MWh of electricity or natural gas

Table S4.4 Reporting Forms

Media/parameter	Reporting Format	Date of Form
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	24/09/14
Waste Return	Waste Return Form RATS2E	24/09/14
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	24/09/14

Schedule 5 - Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period
Leachate levels	5 days

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“Background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Cell layout drawing” means:

(a) A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:

- i. the location of the new cell on the site;
- ii. the proposed level (Above Ordnance Datum) of the base of the excavation;
- iii. the proposed finished levels of all containment and leachate drainage layers;
- iv. the positions of leachate management infrastructure; and
- v. the positions of landfill gas infrastructure (if appropriate).

(b) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:

- i. changes to slope length and gradient within the cell;
- ii. new leachate or landfill gas infrastructure construction design;
- iii. slope stability issues such as new basal excavation level; and/or
- iv. depth of waste.

“Construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the New Cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed

tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;

- Plans showing the location of all tests;
- “As-built” plans and sections of the works;
- Copies of the site engineer’s daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“*emissions to land*” includes emissions to groundwater.

“*EP Regulations*” means The Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675. Words and expressions used in this permit which are also used in those Regulations have the same meanings as in those Regulations.

“*emissions of substances not controlled by emission limits*” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“*exceeded*” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

“*groundwater*” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“*hazardous property*” has the meaning given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

“*Hazardous substances*” as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in our Hydrogeological risk assessment guidance, annex J to our H1 risk assessment guidance.

“*Industrial Emissions Directive*” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“*inert waste*” means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater

“*Landfill Infrastructure*” means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;

- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

“Liquids” means any liquid other than leachate within the engineered landfill containment system.

“LFTGN 05” means Environment Agency Guidance for monitoring enclosed landfill gas flares.

“LFTGN 07” means Environment Agency Guidance on monitoring landfill gas surface emissions.

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines.

“Medicinal product” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

“MEPP” Monitoring and extraction point plan, required by condition 4.2.2(h) to specify extraction points and routine monitoring locations.

“M2” means Environment Agency Guidance Monitoring of stack emissions to air.

“New Cell” means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

“No impact” means that the change made to the construction process will not affect the agreed design criteria,

specification or performance in a way that has a negative effect.

“Pests” means Birds, Vermin and Insects.

“Previous year” means the 12 month period proceeding the month the annual report is submitted in.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Relevant waste acceptance procedures” means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“Relevant waste acceptance criteria” means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“Review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

‘Sustainably extracted’ means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

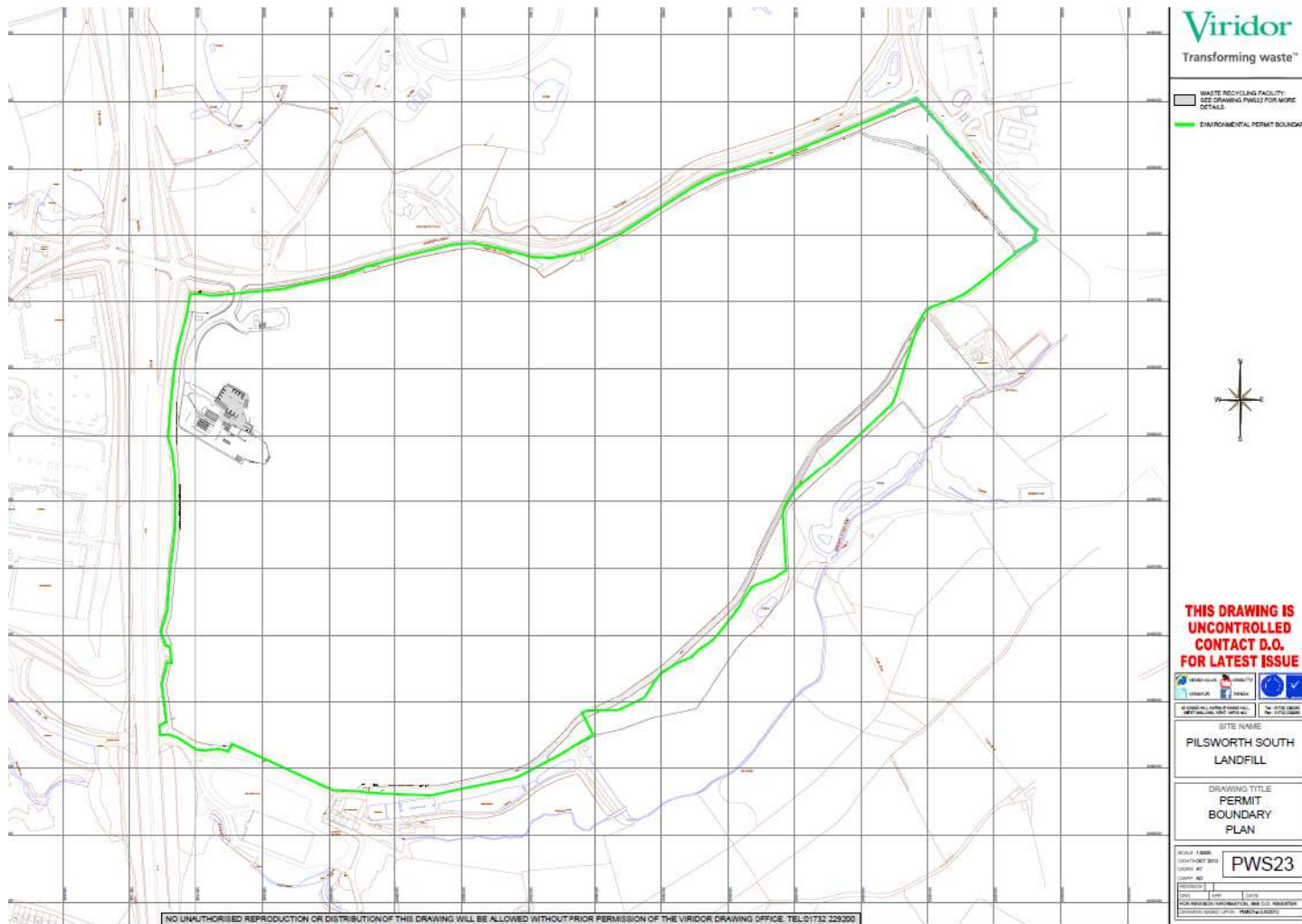
“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

“year” means calendar year ending 31 December.

Schedule 7 – Site Plan



END OF PERMIT.

Variation and consolidation number
EPR/BS79511B/V011

Page 59

24/09/2014

Permit Number:
Facility:

EPR/BS7951IB
Pilsworth South Landfill Site

Operator:
Form Number:

Viridor Waste Management Limited
Leachate 1 / DD/MM/YY

Reporting of leachate monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance Parameter /	Compliance limit	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....
(Authorised to sign as representative of Viridor Waste Management Limited)

Permit Number: EPR/BS7951IB

Operator:

Viridor Waste Management Limited

Facility: Pilsworth South Landfill Site

Form Number:

Air1 / DD/MM/YY

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Permit Number: **EPR/BS7951IB** Operator: **Viridor Waste Management Limited**

Facility: **Pilsworth South Landfill Site** Form Number: **Water1 / DD/MM/YY**

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Viridor Waste Management Limited

Groundwater1 / DD/MM/YY

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Permit Number: EPR/BS7951IB Operator: Viridor Waste Management Limited

Facility: Pilsworth South Landfill Site Form Number: LFG1 / DD/MM/YY

Reporting of landfill gas monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Permit Number: **EPR/BS7951IB**

Operator: **Viridor Waste Management Limited**

Facility: **Pilsworth South Landfill Site**

Form Number: **Particulate1 / DD/MM/YY**

Reporting of particulates for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Viridor Waste Management Limited

Performance1 / DD/MM/YY

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

[illegible]

Operator's comments:

Signed Date.....

(Authorised to sign as representative of Viridor Waste Management Limited)

Certificate of Registration under the Waste (England and Wales) Regulations 2011

Regulation authority

Name



Address

National Customer Contact Centre
99 Parkway Avenue
Sheffield
S9 4WF

Telephone number

03708 506506

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011.

Carriers details

Name of registered carrier

P P O'CONNOR GROUP LTD

Registered as

An upper tier waste carrier, broker and dealer

Registration number

CBDU101751

Address of place of business

P P O'CONNOR
MOSLEY ROAD
MANCHESTER
M17 1GJ

Telephone number

0161 7760333

Date of registration

28 March 2022

Expiry date of registration (unless revoked)

7 May 2025

Making changes to your registration

Your registration will last 3 years and will need to be renewed after this period. If any of your details change, you must notify us within 28 days of the change.

APPENDIX C

WRAP and Certificate of Provenance

PR JUNIOR LIMITED

Cartmel - Glazebrook Lane - Glazebrook - Warrington - WA3 5BL

Tel: 07836602645 - Email: info@prjunior.ltd

WRAP PROTOCOL



**PR JUNIOR LIMITED
INERT RECYCLING FACILITY
OLDHAM ROAD
MILES PLATTING
MANCHESTER
M40 5AA**

SIC (STANDARD INDUSTRIAL CLASSIFICATION)

Demolition 43.11

Inert Recycling 38.32

EWC CODES

The EWC codes for the materials we are processing at our Oldham Road processing centre are as follows:

17 01 01 Brick

17 01 02 Concrete

17 01 07 Mixed Brick, Concrete, Tiles & Ceramics

EWC CODES FOR BY-PRODUCTS INCLUDE

17 04 07 Mixed Metals

17 09 04 Mixed Demolition/Construction waste

WRAP PROTOCOL STATEMENT

PR Junior Limited are committed to following the WRAP Protocol.

This Quality Management System has been developed by PR Junior Limited to provide a control process from which we can reasonably state and demonstrate that the aggregate products we produce have been fully recovered and is no longer a waste product. The system that PR Junior Limited have created provides a clear audit trail to ensure compliance with the Environmental Legislation. The audit trail can also be used by our customers/clients to ensure that they comply with their own Duty of Care and Environmental Procedures.

INCOMING MATERIALS

At PR Junior Limited we understand that the high-quality products we produce can only be achieved through the quality of the waste products we use. We will only allow inert waste materials to be delivered to our recycling centres. Any loads containing hazardous products such as oils, chemicals, tar, asbestos etc or any domestic waste will be immediately rejected, if any incoming loads contain general waste materials such as paper, wood & plastic then the operatives at the processing centre will segregate these from the load, all paper, wood & plastic will be loaded into a 40 yard skip we have positioned on the site, once this skip is full it will be disposed of at a local recycling centre. We will be importing materials from various PR Junior Limited contracts; we will also be offering a free tip for clean hardcore from demolition/transport companies in the Manchester area. Any companies wishing to tip at our Oldham Road site will need to provide the following paperwork,

- 1) Waste carriers' licence
- 2) Waste transfer notes, multiple loads on a single transfer note is acceptable, all paperwork must be completed correctly, or the loads will be refused.

PROCESSING AND CRUSHING OF MATERIALS

All the hardcore materials will need to be processed before crushing, this is because the concrete materials usually have reinforcing bar running through it or other such materials that will not pass through the crusher. Operators using 360 excavators with a concrete breaker, pulveriser and bucket attachments will begin the process. The concrete will need to be broken up into pieces that are able to pass through the crushing plant this will be done using the concrete breaker attachment, also all reinforcing and other unsuitable materials will need to be removed, this will be done using the concrete pulveriser and bucket attachments, materials which have been processed will be placed onto the relevant pile, any suspect materials will be removed from the area until such time it can be confirmed they are suitable for the crushing process. At our recycling centre we will be producing 2 products, these will be 6f2 and MOT.

The crusher jaws can be set to crush materials down to 6f2 size, this is approximately 60mm down to dust, as we are crushing 60mm down to dust the fines belt will remain closed, as there has been reinforcing through the concrete we will leave the magnetic belt running, this will remove any scrap metal that couldn't be removed through the processing stage. For MOT production the method will be the same as above only we would set the crusher jaws to 40mm down to dust.

MATERIALS PRODUCED

When the materials have been crushed they will be placed onto 2 separate finished product stockpiles, 1 pile will contain the 6f2 and another will contain the MOT. As the scrap metal is still a waste product we will load this into a 40yard skip and take it to a licenced recycling centre, we will produce a waste transfer note for this material, we will also obtain the recycling centres permit which can be found within the site file.

We will take 1 sample bag per 500 Ton of product, this will be taken to a licenced Laboratory where each sample will be tested for asbestos, the materials will also be graded, test results will be kept within the site file, these tests will be carried out as our standard procedure to confirm that the materials we are to remove from site are a finished product and no longer a waste.

The finished product will be sold as recycled aggregate to our database of customers, it can be used for many purposes such as hard standing, piling mats and base layer under newly constructed roads/paths. Also, customers will be allowed to collect these products.

MATERIALS NOT MEETING THE STANDARDS

Suspect incoming materials will be rejected immediately.

Suspect materials uncovered during processing will be quarantined, samples taken for testing, then materials will be disposed of at appropriate licenced tipping facility.

If any materials fail the grading test they will be passed through the crushing process again, then further testing will be carried out.

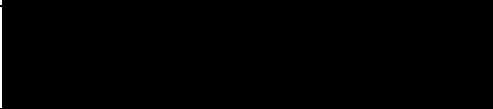


The photograph above shows the typical 6f2 product produced within our Oldham Road facility. 6F2 product is supplied with grading certificate if required.



The photograph above shows the typical MOT product produced within our Oldham Road facility. MOT product is supplied with grading certificate if required.

This document remains the property of PR Junior Limited. No unauthorised distribution or copying of this document is permitted. A copy of the PR Junior WRAP protocol will be supplied to customers should it be requested.

ISSUE DATE	06th April 2020
ISSUE NUMBER	1
PREPARED BY	Tim Richards TechIOSH
SIGNED	
REVIEWED – Tim Richards	06th March 2025

Site Address:

WPI 001E
WPI

KELLEN HOMES
MOUNT RD
GORTON

M18 7GR



MARCHINGTONSTONE

Buxton Road, High Lane, Stockport SK6 8DX
Tel: 01663 765000 Fax: 01663 763777

Delivery Date: 25 2 25

Order No: POR093032

In accordance with our Terms & Conditions a charge for excessive waiting time may be made.

Waiting Time Agreed By:

Print

Signed

Material Description

MOT

(WRAP Recycled Aggs Protocol Compliant)

Tonnes Gross

Tonnes Tare

Tonnes Nett

5148

1178

1970

Time On Site

Time Off Site

Waiting Time Agreed

This vehicle may leave the road on your instruction and at the drivers discretion, providing you accept responsibility for damage to your own or third party property.

Customer Agreed ☐ Signed

Haulier

JGW

Place of Loading

DOVE

Registration No.

P10

Weighbridge Ticket No.

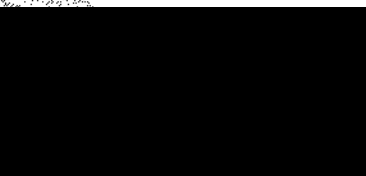
32128540

Driver

DEV

708676

Load Accepted on Behalf of Customer:



Subject to the Conditions of Sale of Marchington Stone Limited applicable to goods of this kind. Available on request.

CE Mark & Declaration of Performance available by contacting sales@marchington.net

Office Copy



321288540



CEMEX UK Materials Limited
Regd Office: CEMEX House, Binley Business Park
Harry Weston Rd, Coventry CV3 2TY

STOP AND THINK - DO NOT LET ANYONE WORK UNSAFELY

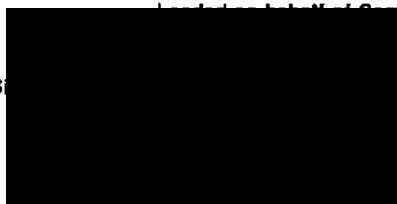
Job Site Number: 0070007826 COLLECT DOVES HOLES	Date: 25.02.2025	Delivery Ticket No. 321288540 /
Account Number: 50308110	Time Out: 06:41:27	Delivery Address SPECIAL EX WORKS ALL PLANTS Z21 1ZZ GB
Customer Name: Marchington Stone Ltd	Req. Deliv. Window: 24 FEB 25 03:00 to 01 MAR 25	
Ordered By:		
Purchase Order: VARIOUS		
Telephone No.:		
Radials: OOPICK	Loaded At:	
T Zone: 2	I423 Dove Holes Quarry (CEMEX)	

UKCA Marks and Declaration of Performance Certificates can be found at www.cemex.co.uk/ukcamarks

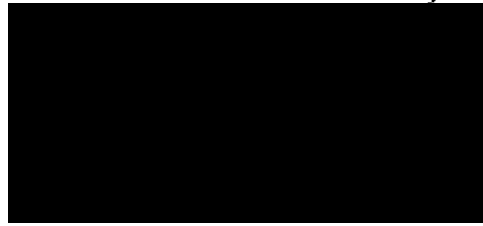
Product Code: 10192359	Gross Weight: 31.480
Product Description: Type 1 Sub.Base Limestone	Tare Weight: 11.780
DOP No.:	Net Weight: 19.700
Tech. Specification: Specification For Highway Works series 800	Total Ordered: 2000.000
Source: DOVE HOLES QUARRY	Total Despatched: 461.260
Product Code:	Gross Weight:
Product Description:	Tare Weight:
DOP No.:	Net Weight:
Tech. Specification:	Total Ordered:
Source:	Total Despatched:

FULL HEALTH AND SAFETY DATA FOR THIS AND SIMILAR PRODUCTS CAN BE FOUND ON OUR PRODUCT HEALTH AND SAFETY DATA SHEET AND ARE AVAILABLE ON REQUEST VIA OUR WEBSITE - CEMEX.CO.UK

Order Number: 2018337142/001	Order Observations
Haulier:	
Driver: DESMOND MITCHELL	
License Plate: P10JGW	
Veh. Class / Type: 8W / Standard Tipper	

	Name Print Kate Beckwith
---	-----------------------------

NO CLAIM FOR DAMAGES IN TRANSIT WILL BE CONSIDERED UNLESS PARTICULARS ARE ENTERED ON THE DELIVERY RECEIPT AND THE CARRIER AND OURSELVES ARE NOTIFIED WITHIN 3 DAYS OF DELIVERY

Customer confirmation: I/We confirm that the correct Gross Weight has been supplied and that I /We have received the correct material as requested.	Returned Load	Time on site
Print 	Tonnes	Time off site
	Reason	Time Claimed
	Signature 	

This material is sold subject to the terms and conditions as shown on our quotation

VAT REG. GB222 8284 72



GRADATION ANALYSIS TEST REPORT

for Product: 10003359/ Type 1 Sub Base Limestone
Supplier/ source: (01) DOVEHOLES SECONDARY

Material type: SHW Clause 803 Test method: Wash grading to BS EN 933: Part 1: 2012

SAMPLE INFORMATION

Sample number DD0811001

Job Location -
Haulier Registration -
Sampled by SB/JH
Product Spec -

Time of Inspection -
Weather Conditions -
Aggregate type Limestone
Air Content -

Sampled/ tested
Mon 03 February 2025/ 04-02-25
at 1000 hrs

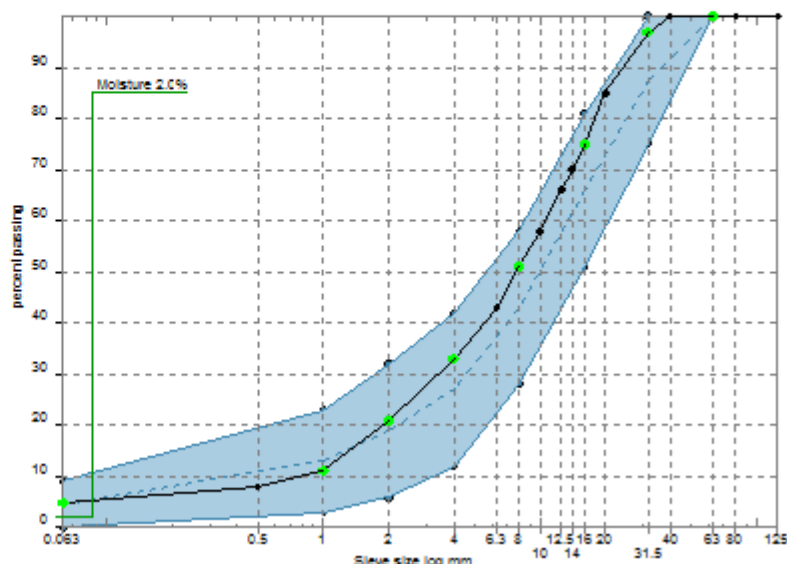
SAMPLE ANALYSIS

Sieve size	Percent passing	Specification limits	Complies ?
125mm	100	-	-
80mm	100	-	-
63mm	100	100 - 100	yes
40mm	100	-	-
31.5mm	97	75 - 100	yes
20mm	85	-	-
16mm	75	51 - 81	yes
14mm	70	-	-
12.5mm	66	-	-
10mm	58	-	-
8mm	51	28 - 58	yes
6.3mm	43	-	-
4mm	33	12 - 42	yes
2mm	21	6 - 32	yes
1mm	11	3 - 23	yes
0.500mm	8	-	-
0.063mm	5	0 - 9	yes
Moisture content %	2.0	not specified	-
Additional grading req.	Type 1 GSB table 8/5	pass or fail	yes
passing 16mm, ret 8mm	25	7 to 30	yes
passing 8mm, ret 4mm	18	7 to 30	yes

Parameters are evaluated to the accuracy of spec. limits

REMARKS

Compliance status ok
Category A of A-C includes secondary parameters



APPENDIX D

Site Visit Records

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visit:	23/09/2024 & 26/09/24
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	2PM-4:30PM

Description of Works Visit

Pre-start site meeting with Kellen Homes and WPI (groundworks contractor) – Agreement of site requirements regarding hazardous and non-hazardous topsoil. All hazardous topsoil to be stockpiled in the areas of TP180, 186-188 & 209 within the sports pitches area.

WPI marked out hazardous areas for removal and stripped boundaries of hazardous zones (see below photos).

Following the stockpiling of hazardous material, sitewide strip of non-hazardous topsoil to be undertaken and stockpiled in the centre of site, ready to be taken offsite.

MMP to be declared following most up to date decision notice – 23/09/24

Potential for site won granular material to be used within the excavation of desiccated clays to enable vibro foundations and remove requirement to deepen foundations due to tree influence. Current PSDs show onsite granular made ground to be unsuitable for reuse but potential further testing may be undertaken

Conducted site wide walkover.

PH conducted inspection of stripped hazardous topsoil areas, no visual or olfactory evidence of contamination, underlying material ranged from granular ashy made ground to sandy clay.

As of 26/09/24, the majority of the hazardous topsoil had been removed and stockpiled in the sports pitches area.

No major concerns noted on the geo-environmental aspects, although site works had not long commenced.

Photographs



Photograph 1: Overview of hazardous topsoil areas



Photograph 2: Overview of hazardous topsoil areas

Form No	Revision	Date
CMR 19	0.0	May 20



Photograph 3: North section prep for topsoil strip



Photograph 4: Hazardous section following topsoil removal



Photograph 5: North section prep for topsoil strip



Photograph 6: Boundary of hazardous topsoil



Photograph 7: North section following topsoil removal



Photograph 8: Hazardous soils stockpile in sports pitch area



Photograph 9: TP186 area undergoing topsoil strip



Photograph 10: TP219 topsoil strip complete



Photograph 11: Non-hazardous topsoil stockpile

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visit:	03/10/2024
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	JEM	Visit Time:	1:15PM-2:15PM

Description of Works Visit

Attended site at 13:15 asked around for Liam and PJ but not onsite- met Pat from MPI instead as he said he has assisted with Pete on his previous visits.

Pat stated that a lot hasn't changed since Pete's visit last week due to the wet weather we have had this week.

Approximately 70% of the site's topsoil has been stripped for offsite disposal.

The contaminated topsoil has not been moved since Pete's last visit and remains in the area of the site due to be a sports pitch. They plan to reuse this contaminated material onsite, allowing space for 600mm buildup to be completed by another company.

CBR has been undertaken in the road area but yielded poor values. O'GARA currently delivering stone for the haul roads.

Asked about the decommissioning of the boreholes. JEM explained what they look like and how you would recognise them. Pat from MPI stated that there was no evidence of the wells and any associated wellheads and pipework when they mobilised to site. They have seen no evidence of these when they have been doing the works and stated they must have been removed before they got onsite.

Photographs



Photograph 1



Photograph 2

Form No	Revision	Date
CMR 19	0.0	May 20



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10



Photograph 11



Photograph 12

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visit:	08/10/2024 11/10/2024
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	SJ	Visit Time:	8:30AM-9:30AM 9:30AM-12PM

Description of Works Visit

08/10/2024

Attended site at 8:30 asked around for Liam but not onsite- met the site manager from WPI instead as he said he has assisted with Pete on his previous visits.

The site manager couldn't assist me with the questions about the existing boreholes however had informed me on my next visit I will be able to meet with him.

He told me approximately 80% of the site's topsoil has been stripped for offsite disposal at this point and all the contaminated topsoil has been moved to the south west corner of the site. They plan to reuse this contaminated material onsite, allowing space for 600mm buildup to be completed by another company.

Site manager also told me they are starting to build foundations in the north west of the site and putting in sewers near there too.

11/10/2024

Attended site at 9:30 and spoke to Kellen Homes site manager. In the morning and he confirmed the boreholes had been set out. He also pointed us towards the person who set them out and he showed us where he had done this with his spray paint. SJ and GK then decommissioned BH's.

After this we had a general walkover of the site to see progress and they had finished stripping the remaining topsoil in the east of the site ready for earthworks, which the site manager confirmed will be starting on Monday/ Tuesday.

There were general bulldozing going on at the stockpiles and a pilling mat was being rolled near the north east of the site.

Photographs

Form No	Revision	Date
CMR 19	0.0	May 20



07/10



07/10



07/10



07/10



07/10



07/10



WS03



WS04 BEFORE



WS04 AFTER



WS07



WS06 BEFORE



WS06 AFTER



WS12



WS11



WS10 BEFORE



WS10 AFTER



WS08 BEFORE



WS08 AFTER



WS09



WS01



WS02



11/10



11/10



11/10

SITE VISIT RECORD

Site Name: Mount Road, Gorton

Job No: C5150

Engineer(s): JEM

Date of Visit: 03/10/2024

Visit Purpose: Assess Progress of Earthworks

- Attended site at 13:15 asked around for Liam and PJ but not onsite- met Pat from MPI instead as he said he has assisted with Pete on his previous visits.
- Pat stated that a lot hasn't changed since Pete's visit last week due to the wet weather we have had this week.
- Approximately 70% of the site's topsoil has been stripped for offsite disposal.
- The contaminated topsoil has not been moved since Pete's last visit and remains in the are of the site due to be a sports pitch. They plan to reuse this contaminated material onsite, allowing space for 600mm buildup to be completed by another company.
- CBR has been undertaken in the road area but yielded poor values. O'GARA currently delivering stone for the haul roads.
- Asked about the decommissioning of the boreholes. JEM explained what they look like and how you would recognise them. Pat from MPI stated that there was no evidence of the wells and any associated wellheads and pipework when they mobilised to site and they have seen no evidence of these when they have been doing the works and stated they must have been removed before they got onsite.

JEM offsite 14:15

Photos in job folder

Form No	Revision	Date
CMR 04	0.1	Nov 18

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visits:	14/10/2024, 16/10/2024, 17/10/2024 & 18/10/2024
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast and rain.
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH/AJS/TW	Visit Time:	2:00-4:00PM, 8:00-10:00AM, 8:00AM-3:00PM

Description of Works Visit

14/10/2024:
 PH attended site and observed the start of the clay excavation dig in the north east corner of the site.
 Confirmation of BSL attending site on a more regular basis and to arrange for geotechnical testing of the build up within the excavations along the east border of the site.

Confirmation of 150mm of Topsoil and 450mm subsoil in gardens.

16/10/2024:
 AJS attended site, confirmed logistics of BSL undertaking the geotechnical testing and took hand shear vanes (HSVs) in the base of the first clay excavation circa 3.00m bgl. All HSVs undertaken achieved 120kPa indicating a stiff clay.

Confirmation with Vibro Contractor (Town and Country Vibro) that CBR and Density tests acceptable every 1.00m.

Compaction Equipment: HAMM H 7i - 1680mm width single roller, 7800kg (4,642 kg per m drum).

Specific requirements sent to WPI, also recommend if heavy rain persists then please hold off works until the weather improves as the material may not be adequately compacted.

17/10/2024:
 PH attended site, performed testing on first layer of upfill within clay excavation (I1-L1). Plate Load Test failed to pass 2% CBR passing rate – 0.5% CBR. Nuclear density testing passed and confirmed 100% compaction. Material was rerolled without vibro compaction in order to try and achieve target CBR although second plate load also failed to reach 2% (0.8% CBR).
 Contacted Town and Country Vibro, to confirm requirements due to CBRs failing. T&C confirmed CBRs not imperative for the upfill at this depth but three more Nuclear Density tests were undertaken to confirm 100% compaction across the upfill area.
 Took 4 bulk samples for geotechnical testing.

18/10/2024:
 TM attended site and performed testing on I1-L2 & I1-L3, both layers passed the CBR of 2% and Nuclear Density of 1.325 mg/m³. This section now waiting for implementation of piling mat which will be placed at a later date. Next section of clay exaction to be undertaken to the south.

Photographs



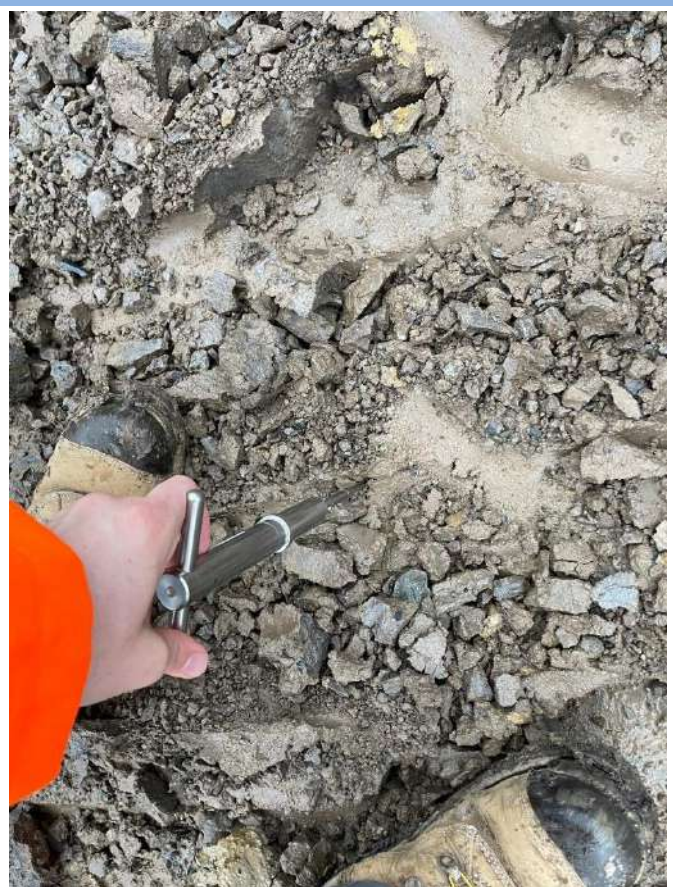
14/10/24



14/10/24



16/10/24



16/10/24



16/10/24



17/10/24



17/10/24



17/10/24



18/10/24



18/10/24

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visits:	22/10/24 & 25/10/24
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry and overcast.
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH/TW	Visit Time:	2:30-4:00PM, 8:00AM-

Description of Works Visit

22/10/2024:

PH attended site for site meeting, discussed logistics of site wide earthworks testing to be undertaken by BSL. Agreed that BSL would produce an updated plan of sampling locations and requirements within upfill areas. WPI to start multiple digs within the clay excavation areas, BSL to attend site on a more regular basis to aid ongoing testing, visits to be arranged by WPI to let BSL know when they are required.

25/10/2024:

TM attended site and performed testing on I2-L1 & I2-L2, both layers passed the CBR of 2% and 95% of the MDD. Four HSVs also undertaken on base of the excavation, 3 of which passed the 50kPa requirement, the other was not able to be undertaken due to the very stiff nature of the clay. Samples also taken for weekly earthworks testing.

Photographs



22/10/24



25/10/24

Form No	Revision	Date
CMR 19	0.0	May 20



25/10/24



25/10/24



25/10/24

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visits:	29/10/24 - 01/11/24
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast and light rain.
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH/SJ	Visit Time:	1:00PM – 4:30PM

Description of Works Visit

29/10/2024:

PH attended site in the afternoon and undertook testing on I2-L3 and I4-L1. I2-L3 failed to pass the required CBR % value of 2% at 1.3%, but passed the density criteria. Surface was then re-rolled and tested again, which achieved 1.4% CBR, and again did not pass the requirements. Agreed with WPI that this layer would be left for a week and re-tested after it was allowed to dry out, if this doesn't work, the layer may need digging out and replacing.

Four hand shear vane tests were undertaken on the base of the excavation below I4-L1 prior to placement of material. All HSVs were >50kPa and passed the requirements. I4-L1 also passed the CBR of 2% (2.4%) and 95% of the MDD.

9 subsoil validation samples were undertaken between two stockpiles onsite, one which was in the east of the site close to the clay excavations and one which was within the proposed pitch area.

30/10/2024:

PH attended site in the afternoon and undertook testing on I4-L2 and I3-L1, both layers passed the CBR of 2% and 95% of the MDD. Four HSVs also undertaken on base of the excavation below I3-L1, all which passed the 50kPa requirement.

31/10/2024:

PH attended site in the afternoon and undertook testing on I3-L2, which passed with a CBR of 10% and also passed the 95% MDD threshold.

Inspection of clean subsoil stockpiles carried out, noted that some made ground was getting misplaced on the western subsoil stockpile, informed John onsite and agreed top layer was to be taken off and placed in a separate stockpile.

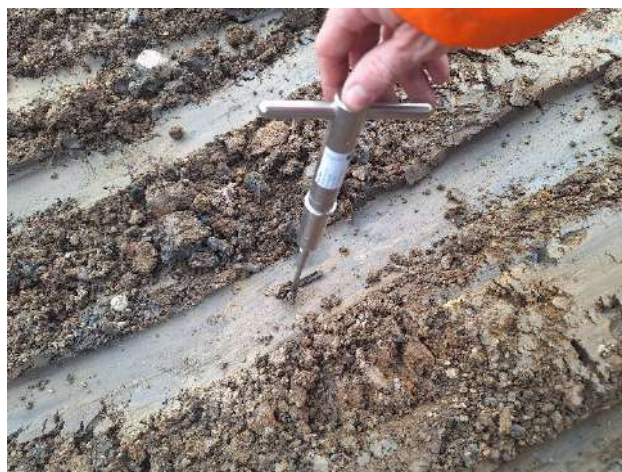
01/11/2024:

SJ attended site in the afternoon and undertook testing on I3-L3, which passed with a CBR of 2.8% and densities over 95% of the MDD.

Photographs



29/10/24



29/10/24

Form No	Revision	Date
CMR 19	0.0	May 20



29/10/24



29/10/24



30/10/24



30/10/24



30/10/24



30/10/24



31/10/24



31/10/24



01/11/24



01/11/24

Form No	Revision	Date
CMR 19	0.0	May 20

EARTHWORKS AND WATCHING BRIEF VALIDATION RECORD

Project No:	C5150	Date of Visit:	05/11/24 & 07/11/24
Site Name:	Mount Road, Gorton	Weather Conditions:	Overcast
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	2PM-4PM & 11AM-1PM

Description of Works Visit

05/11/2024

- PH attended site for bi-weekly site meeting by Stuart Ellis. Majority of fill testing in the clay excavations complete with the exception of the re-test of I2-L3. Further site wide testing to be confirmed with LABC requirements.

07/11/2024

- AR attended site and undertook re-testing on I2-L3 following re-rolling and drying of material. One CBR and three nuclear density tests were undertaken, all of which passed the required criteria.

Photographs



07/11



07/11

EARTHWORKS AND WATCHING BRIEF VALIDATION RECORD

Project No:	C5150	Date of Visit:	13/11/2024
Site Name:	Mount Road, Gorton	Weather Conditions:	Overcast
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	2PM-4PM

Description of Works Visit

13/11/2024

- PH attended site at 2.00pm for weekly site visit and sampling for previous week's in-situ testing on I2-L3.
- Final walkover and validation photo's taken of finished levels in clay excavation area's in the east section of the site.
- Clean clay stockpile inspection and general site photo's undertaken.

Photographs



13/11



13/11



13/11



13/11



13/11



13/11



13/11



13/11

EARTHWORKS AND WATCHING BRIEF VALIDATION RECORD

Project No:	C5150	Date of Visit:	19/11/2024 & 20/11/24
Site Name:	Mount Road, Gorton	Weather Conditions:	Overcast, intermittent drizzle
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	AJS & TW	Visit Time:	2PM-3PM & 10AM-3PM

Description of Works Visit

19/11/2024

AJS attended site at 2.00pm for progress meeting by Stuart Ellis.

- Agreed that earthworks testing now completed, with desiccated clay excavation areas completed, no further requirements to test external areas as per LABC agreement and that generally external are <0.75m of fill, with minimal settlement likely.
- Within plots/highways, plate loads testing being carried out by WPI.
- Likely the vibro works will commence within next week or two of meeting date.
- AJS walked to the eastern part of the site with SE, no significant concerns raised, no significant V/O evidence of contamination within any open excavations or exposed made ground at surface.
- General groundworks being carried out in eastern part of site, with drainage being laid by sperate gangs in the west.
- AJS/SE agreed BSL to reduce visits to a fortnightly basis or on a call out basis if any V/O evidence of contamination is observed.
- BSL still to conduct testing on import/re-use material to help administer the MMP.
- AJS left at circa 3.00pm.

20/11/24

- TW attended site to take samples of made ground ash material (Class 2C) & clean subsoil clay samples.

Photographs



19/11



19/11

Form No	Revision	Date
CMR 19	0.0	May 20



19/11



19/11



19/11



19/11



20/11



20/11

Form No	Revision	Date
CMR 19	0.0	May 20

EARTHWORKS VALIDATION RECORD

Project No:	C5150	Date of Visits:	04/12/24 - 15/01/25
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast and snow
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	1:00PM – 4:30PM

Description of Works Visit

04/12/24: PH attended bi-weekly site visit, no problems recorded, photographs taken of stockpiles and finished levels.

18/12/24: PH attended bi-weekly site visit, no problems recorded, photographs taken of stockpiles and finished levels.

09/01/25: PH attended site to undertake stockpile sampling of subsoil. Unfortunately due to freezing weather conditions and snow, sampling was not possible due to frozen ground and excavator was not available to aid.

15/01/25: PH attended site to undertake subsoil stockpile sampling. 20 samples were taken of the subsoil, from across the stockpile at varying depths and locations. The testing frequency for the subsoil is being undertaken on a 1:100m³ basis, therefore along with a previous 6 samples taken on this stockpile, this will cover a volume of 2600m³ of subsoil material out of a total volume of 3200m³.

04/02/25: Testing from the subsoil sampling has revealed that the subsoil is suitable for use in the cover system in the residential gardens in regard to human health.

Photographs



04/12/24



04/12/24



04/12/24



04/12/24



18/12/24



18/12/24



18/12/24



18/12/24

Form No	Revision	Date
CMR 19	0.0	May 20

SITE VISIT RECORD

Project No:	C5150	Date of Visits:	18/02/25 - 20/03/25
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast and sunny
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	1:00PM – 4:30PM

Description of Works Visit

18/02/25:

PH attended site in order to take samples of site won subsoil stockpiles located in the east and west section of the site. Took 6 samples from stockpile 25 (SP25 3.1 – 3.6), along with the previous samples taken from this stockpile, these samples now cover the required testing for the volume of this stockpile (3200m³). The results showed that this subsoil was suitable for use within the clean cover system. Additionally, samples were also taken from stockpile 3 (SP03 1.1 – 1.4) and stockpile 4 (SP04 1.1 – 1.3). These also showed that the subsoil was suitable for use in the clean cover system.

Only one additional subsoil stockpile remains untested, which was produced as part of the excavation for the sewers and attenuation tank in the north-west section of the site. WPI have not confirmed if this is intended for use within the cover system or if it will be used as general fill.

Stockpile 4 also had a small amount of made ground placed on top of the subsoil stockpile, made WPI that this should be removed prior to use in the clean cover system. Evidence of this being removed was sent by PJ Crofts on 20/02/25 as shown on Photo 4.

24/02/25:

PH attended site initially to do a watching brief for the non-hazardous topsoil being removed from site, although due to an issue with the export sites soil requirements the material was unable to be accepted. Originally the soils were to be taken offsite by O’Gara’s to Agcroft Landfill, but is now being taken offsite by PP O’Connor’s to Pilsworth Landfill.

Stockpile 4 was being placed within plots in the north-east section of the site at the time of the visit.

03/03/25:

PH attended site to undertaken watching brief of non-hazardous topsoil being removed from site. Approximately two thirds had been taken offsite at the time of attendance from the centre of the site.

Spreading of the hazardous topsoil had also commenced in the west section of the site in the area of the proposed pitches. As seen from the photo’s 11 & 12, two stockpiles were still waiting to be spread. The subsoil stockpile in this area is to be moved to accommodate this.

20/03/25:

PH attended site to undertake watching brief for spread of hazardous topsoil in the western section of the site. Majority of soils have now been placed. The subsoil stockpile which was previously in this area has been moved to the east of the proposed pitches area.

Subsoil stockpile in the north-west section of the site which was produced from the sewers as mentioned above will be used as general fill and not within the cover system.

Confirmed with WPI that the recycled 6F2 imported to site was done under WRAP, WPI to provide records of this. Also received certificate of provenance from WPI for the imported clean quarried MOT for the roads and driveways.

Record of volume of exported non-hazardous topsoil requested from WPI. Also requested current levels of pitches with hazardous topsoil placed.

BSL have also been appointed to test the imported topsoil – requested details from WPI.

Form No	Revision	Date
CMR 19	0.0	May 20

Photographs



Photo 1: 18.02.25 – Stockpile 3



Photo 2: 18.02.25 – Stockpile 4



Photo 3: 18.02.25 – Stockpile 4 Made ground



Photo 4: 18.02.25 – Made ground removed



Photo 5: 18.02.25 – Site overview facing east



Photo 6: 18.02.25 – Hazardous topsoil stockpile

Form No	Revision	Date
CMR 19	0.0	May 20



Photo 7: 24.02.25 – Stockpile 4 placed in plots



Photo 8: 25.02.25 – Stockpile 25



Photo 9: 24.02.25 – Subsoil stockpile from sewers



Photo 10: 03.03.25 – Non-hazardous topsoil export



Photo 11: 03.03.25 – Hazardous topsoil placement



Photo 12: 03.03.25 - Hazardous topsoil placement



Photo 13: 20.03.25 – Stockpile 25 (moved to the east)



Photo 14: 20.03.25 – Remaining non-hazardous topsoil for export



Photo 16: 20.03.25 – Hazardous topsoil placement



Photo 17: 20.03.25 – Hazardous topsoil placement

SITE VISIT RECORD

Project No:	C5150	Date of Visits:	03/04/25 & 17/04/25
Site Name:	Mount Road, Gorton	Weather Conditions:	Dry, overcast and sunny
Client:	KELLEN HOMES	Site Manager:	Liam Ruddock
Engineer:	PH	Visit Time:	1:00PM – 4:30PM

Description of Works Visit

03/04/25:

- PH attended site in the afternoon
- Non-hazardous topsoil has now been removed from site completely.
- NW subsoil stockpile is approximately 250m². Potentially to be used in clean cover system, therefore 3 samples were taken for suitability testing. Tested in line with the BSL Remedial Strategy.
- Requested topsoil waste transfer notes from WPI. Also requested earthworks finished levels for pitches area.
- Stockpile 3 has not been used in clean cover system yet.
- Pitches are not complete and ready for handover to Youthfed, BSL are progressing with the handover letter report. Requested volumes, waste transfer records and stockpile records on 27/03/25.
- Requested earthworks finished level for pitches from WPI on 09/04/25.

17/04/25:

- PH attended site in the afternoon.
- Results from the testing on the NW stockpile (Stockpile 5) showed slightly elevated levels of PAHs (Benzo(a)pyrene) in one sample and elevated levels of Lead in another. This wouldn't be suitable for use in the clean cover system in the gardens. Although it could be used for general fill below the cover system or within an area of POS within the cover system.
- WPI informed BSL that the intended use of the subsoil is for general upfill within the community hub/apartments area of the site.
- WPI have provided EWFL survey which shows handover levels.
- Steve Duffy from WPI has provided the completed materials tracking form for the site along with a materials movement plan.

Photographs



Photo 1: 03.04.25 – EWFL Youthfed Area



Photo 2: 03.04.25 – EWFL Youthfed Area



Photo 3: 03.04.25 – EWFL Youthfed Area



Photo 4: 03.04.25 – EWFL Youthfed Area



Photo 5: 03.04.25 – Site overview facing east



Photo 6: 03.04.25 – Site overview facing north

Form No	Revision	Date
CMR 19	0.0	May 20



Photo 7: 03.04.25 – Stockpile 5



Photo 8: 03.04.25 – Stockpile 25 – Moved to centre of site



Photo 9: 03.04.25 – Subsoil stockpile 3



Photo 10: 17.04.25 – Pitches overview



Photo 11: 17.04.25 – Subsoil stockpile



Photo 12: 17.04.25 – Stockpile 5



Photo 13: 17.04.25 – Stockpile 25 (moved to the east)



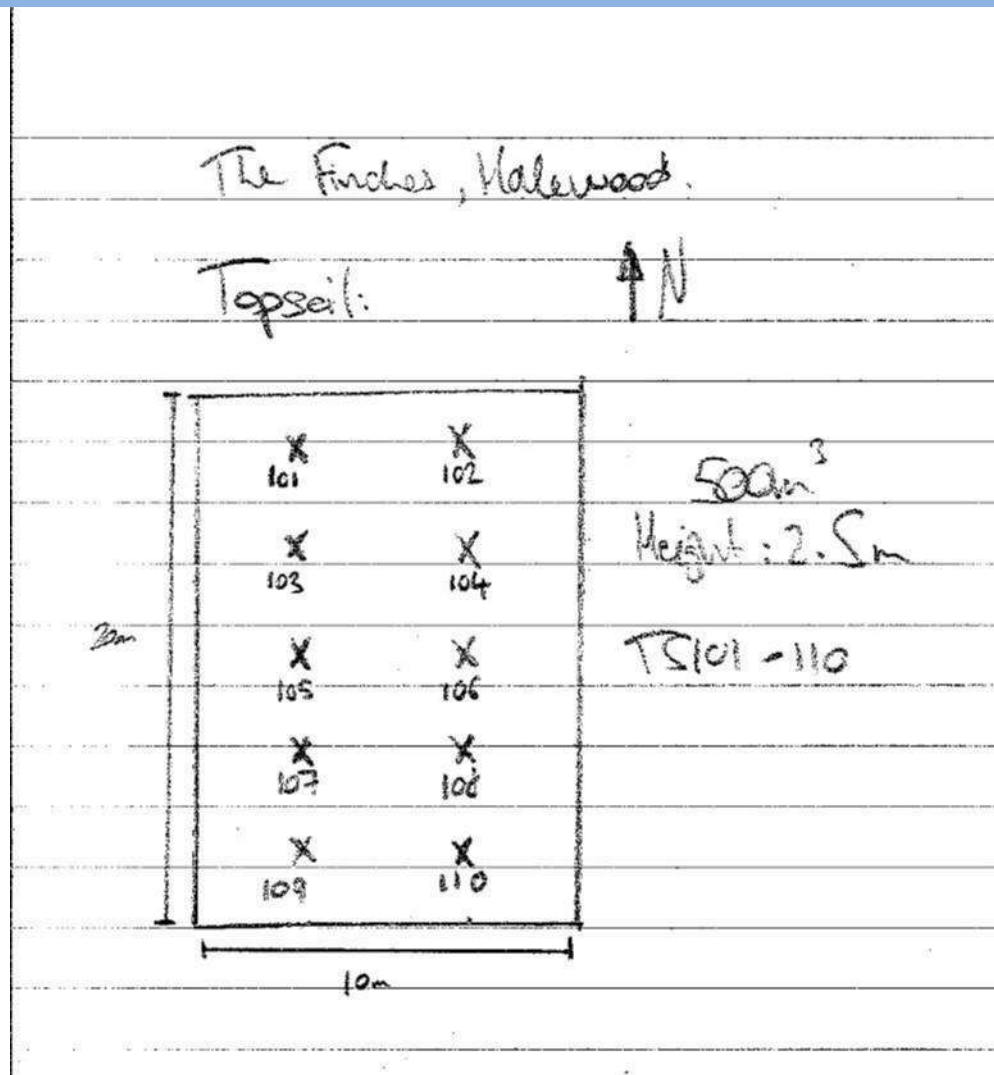
Photo 14: 17.04.25 – Site overview facing east

Form No	Revision	Date
CMR 19	0.0	May 20

STOCKPILE VALIDATION RECORD

Project No:	C5150	Date of Visit:	07/05/25
Site Name:	The Finches, Halewood / Mount Road, Gorton	Weather Conditions:	Sunny
Client:	Kellen Homes	Site Manager:	Adam Magrath
Engineer:	PH	Others present:	N/A
Stockpile Ref:	Topsoil 1	Photographs Taken:	YES
Dimensions: LxWxH (m)	20x10x2.5	Estimated Volume: ~m ³	500
Source Type:	Greenfield	Required Sampling Frequency:	1 per 50m ³
Samples Collected:			
Topsoil: TS101-110			
Sampling Frequency Met?		YES	
Sample Descriptions:			
Dark brown slightly gravelly slightly sandy clay. Sand is fine to coarse. Gravel is sub-angular fine to medium of mudstone and sandstone.			
Visual Inspection:			
Undertake visual inspection of materials for visual/olfactory evidence of contamination. Be wary of any significant man-made debris including brick, concrete, tarmacadam, glass, plastic etc.			
No anthropogenic inclusions noted in material. Soils was generally representative of topsoil.			

Sketch of Sample Locations:



Additional Notes:

Results:

The testing results showed that no exceedances of contaminants were recorded in respect to human health criteria. Therefore, the topsoil is considered suitable for import to site. The Human Health Risk Assessment Sheet and testing results are appended to the rear of this record.

Photographs



Photograph 1 – Stockpile facing north



Photograph 2 – Stockpile facing west



Photograph 3 – Stockpile facing south



Photograph 4 – Stockpile facing east



Photograph 5 – Stockpile sample locations

Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Depth:			Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
						TS101	TS102	TS103	TS104	TS105	TS106	TS107	TS108
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC								
Moisture Content	-	10	7.00	13.00	-	9	13	9	8	10	7	8	10
Soil Organic Matter	-	10	2.30	3.20	-	2.6	3.1	2.5	2.9	2.9	2.8	3.0	2.6
pH	-	10	7.60	8.10	-	7.9	7.7	7.9	7.8	7.8	7.7	8.1	7.7
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	10	31.90	51.20	-	37.9	43.1	47.4	51.2	31.9	49.2	35.8	33.8
Arsenic	37	10	9.70	14.00	0	12.0	13.0	13.0	13.0	13.0	13.0	14.0	12.0
Cadmium	11	10	0.40	0.60	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Chromium (III)	910	10	22.00	28.00	0	26.0	25.0	27.0	27.0	26.0	28.0	27.0	27.0
Hexavalent Chromium (VI)	6	10	< LOD	<LOD	0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	2400	10	36.00	49.00	0	44.0	48.0	47.0	46.0	46.0	46.0	49.0	42.0
Lead	200	10	44.00	68.00	0	59.0	62.0	68.0	61.0	60.0	58.0	65.0	55.0
Mercury	1.2	10	< LOD	0.40	0	0.4	< 0.3	< 0.3	0.4	< 0.3	0.4	0.4	< 0.3
Nickel	130	10	19.00	24.00	0	22.0	22.0	24.0	23.0	23.0	23.0	24.0	23.0
Selenium	250	10	< LOD	1.20	0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	1.2	1.0	< 1.0
Zinc	3700	10	67.00	94.00	0	91.0	93.0	91.0	93.0	90.0	94.0	94.0	81.0
Naphthalene	5.6	10	< LOD	0.16	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	420	10	< LOD	0.06	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	510	10	< LOD	0.38	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	400	10	< LOD	0.32	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	220	10	0.10	2.00	0	0.11	0.12	0.16	0.21	0.13	0.21	0.19	0.10
Anthracene	5400	10	< LOD	0.48	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	560	10	0.21	1.80	0	0.23	0.31	0.31	0.37	0.26	0.35	0.30	0.21
Pyrene	1200	10	0.19	1.60	0	0.21	0.30	0.29	0.37	0.25	0.33	0.27	0.19
Benzo(a)anthracene	11	10	0.10	0.77	0	0.12	0.16	0.15	0.19	0.12	0.16	0.14	0.10
Chrysene	22	10	0.13	0.89	0	0.14	0.19	0.19	0.23	0.16	0.21	0.18	0.13
Benzo(b)fluoranthene	3.3	10	0.15	0.98	0	0.21	0.27	0.27	0.30	0.23	0.29	0.25	0.15
Benzo(k)fluoranthene	93	10	0.06	0.35	0	0.07	0.10	0.07	0.11	0.07	0.06	0.08	0.09
Benzo(a)pyrene	2.7	10	0.12	0.79	0	0.15	0.22	0.21	0.24	0.15	0.20	0.18	0.13
Indeno(1,2,3-cd)pyrene	36	10	0.07	0.32	0	0.08	0.11	0.09	0.11	0.08	0.10	0.10	0.07
Dibenz(a,h)anthracene	0.28	10	< LOD	0.10	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	340	10	< LOD	0.38	0	0.09	0.14	0.12	0.14	< 0.05	0.13	0.12	0.09
Asbestos Detected (Detected or Not-Detected)	Y	10	0.00	0.00	0	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected	Not-Detected
Mean Average SOM			2.8										
Mean Average pH			7.8										
			Residential with Homegrown Produce 2.5% SOM			Values in RED are > the relevant screening levels and further assessment is required. Exceedance of the screening levels alone may not mean a risk is posed.							
Job Number: C5150													
Client: Kellen Homes													
Site: Mount Road, Gorton													
Soil Group Type Topsoil													

Human Health Assessment Summary - Soils Test Data			Soil Type: Location: Depth:			Topsoil TS109	Topsoil TS110
Contaminant	GAC (mg/kg)	No. Samples	Min. Value	Max. Value	No. Samples ≥GAC		
Moisture Content	-	10	7.00	13.00	-	12	10
Soil Organic Matter	-	10	2.30	3.20	-	2.3	3.2
pH	-	10	7.60	8.10	-	7.6	7.7
Water Soluble Sulphate (2:1 Leachate Equivalent) (mg/l)	Note mg/l	10	31.90	51.20	-	47.2	35.8
Arsenic	37	10	9.70	14.00	0	9.7	12.0
Cadmium	11	10	0.40	0.60	0	0.4	0.5
Chromium (III)	910	10	22.00	28.00	0	22.0	25.0
Hexavalent Chromium (VI)	6	10	< LOD	<LOD	0	< 1.8	< 1.8
Copper	2400	10	36.00	49.00	0	36.0	44.0
Lead	200	10	44.00	68.00	0	44.0	60.0
Mercury	1.2	10	< LOD	0.40	0	< 0.3	0.3
Nickel	130	10	19.00	24.00	0	19.0	22.0
Selenium	250	10	< LOD	1.20	0	< 1.0	1.0
Zinc	3700	10	67.00	94.00	0	67.0	88.0
Naphthalene	5.6	10	< LOD	0.16	0	< 0.05	0.16
Acenaphthylene	420	10	< LOD	0.06	0	< 0.05	0.06
Acenaphthene	510	10	< LOD	0.38	0	< 0.05	0.38
Fluorene	400	10	< LOD	0.32	0	< 0.05	0.32
Phenanthrene	220	10	0.10	2.00	0	0.12	2.00
Anthracene	5400	10	< LOD	0.48	0	< 0.05	0.48
Fluoranthene	560	10	0.21	1.80	0	0.23	1.80
Pyrene	1200	10	0.19	1.60	0	0.22	1.60
Benzo(a)anthracene	11	10	0.10	0.77	0	0.11	0.77
Chrysene	22	10	0.13	0.89	0	0.13	0.89
Benzo(b)fluoranthene	3.3	10	0.15	0.98	0	0.16	0.98
Benzo(k)fluoranthene	93	10	0.06	0.35	0	0.06	0.35
Benzo(a)pyrene	2.7	10	0.12	0.79	0	0.12	0.79
Indeno(1,2,3-cd)pyrene	36	10	0.07	0.32	0	0.07	0.32
Dibenz(a,h)anthracene	0.28	10	< LOD	0.10	0	< 0.05	0.10
Benzo(ghi)perylene	340	10	< LOD	0.38	0	0.08	0.38
Asbestos Detected (Detected or Not-Detected)	Y	10	0.00	0.00	0	Not-Detected	Not-Detected
Mean Average SOM			2.8				
Mean Average pH			7.8				
			Residential with Homegrown Produce 2.5% SOM				
Job Number: C5150							
Client: Kellen Homes							
Site: Mount Road, Gorton							
Soil Group Type Topsoil							



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William Smith House
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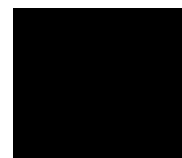
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Croxley Green
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Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 25-024065

Project / Site name:	Mount Road, Gorton	Samples received on:	09/05/2025
Your job number:	C5150	Samples instructed on/ Analysis started on:	09/05/2025
Your order number:	C5150/6414/PH	Analysis completed by:	15/05/2025
Report Issue Number:	1	Report issued on:	15/05/2025
Samples Analysed:	10 soil samples		

Signed:



Rafa Szczepaczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-024065
Project / Site name: Mount Road, Gorton
Your Order No: C5150/6414/PH

Lab Sample Number	541749	541750	541751	541752	541753
Sample Reference	TS101	TS102	TS103	TS104	TS105
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.7	13	8.9	8.4	10
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	7.7	7.9	7.8	7.8
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	76	86	95	100	64
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	37.9	43.1	47.4	51.2	31.9
Organic Matter (automated)	%	0.1	MCERTS	2.6	3.1	2.5	2.9	2.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.11	0.12	0.16	0.21	0.13
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.23	0.31	0.31	0.37	0.26
Pyrene	mg/kg	0.05	MCERTS	0.21	0.3	0.29	0.37	0.25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.12	0.16	0.15	0.19	0.12
Chrysene	mg/kg	0.05	MCERTS	0.14	0.19	0.19	0.23	0.16
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.21	0.27	0.27	0.3	0.23
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.07	0.1	0.07	0.11	0.07
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.15	0.22	0.21	0.24	0.15
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.08	0.11	0.09	0.11	0.08
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.09	0.14	0.12	0.14	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.42	1.93	1.85	2.27	1.46
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Analytical Report Number: 25-024065
 Project / Site name: Mount Road, Gorton
 Your Order No: C5150/6414/PH

Lab Sample Number				541749	541750	541751	541752	541753
Sample Reference				TS101	TS102	TS103	TS104	TS105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	13	13	13	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.6	0.6	0.6	0.6
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	26	25	27	27	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	26	27	28	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	44	48	47	46	46
Lead (aqua regia extractable)	mg/kg	1	MCERTS	59	62	68	61	60
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	22	24	23	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	91	93	91	93	90

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-024065
Project / Site name: Mount Road, Gorton
Your Order No: C5150/6414/PH

Lab Sample Number	541754	541755	541756	541757	541758
Sample Reference	TS106	TS107	TS108	TS109	TS110
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7	7.9	9.9	12	10
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI	DKI
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	8.1	7.7	7.6	7.7
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	98	72	68	94	72
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	49.2	35.8	33.8	47.2	35.8
Organic Matter (automated)	%	0.1	MCERTS	2.8	3	2.6	2.3	3.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.16
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.38
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.32
Phenanthrene	mg/kg	0.05	MCERTS	0.21	0.19	0.1	0.12	2
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.48
Fluoranthene	mg/kg	0.05	MCERTS	0.35	0.3	0.21	0.23	1.8
Pyrene	mg/kg	0.05	MCERTS	0.33	0.27	0.19	0.22	1.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.16	0.14	0.1	0.11	0.77
Chrysene	mg/kg	0.05	MCERTS	0.21	0.18	0.13	0.13	0.89
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.29	0.25	0.15	0.16	0.98
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06	0.08	0.09	0.06	0.35
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.2	0.18	0.13	0.12	0.79
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.1	0.1	0.07	0.07	0.32
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.13	0.12	0.09	0.08	0.38

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.03	1.8	1.25	1.28	11.3
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Analytical Report Number: 25-024065
 Project / Site name: Mount Road, Gorton
 Your Order No: C5150/6414/PH

Lab Sample Number				541754	541755	541756	541757	541758
Sample Reference				TS106	TS107	TS108	TS109	TS110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/05/2025	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	14	12	9.7	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.6	0.5	0.4	0.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	28	27	27	22	25
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	27	27	23	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	49	42	36	44
Lead (aqua regia extractable)	mg/kg	1	MCERTS	58	65	55	44	60
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	0.4	< 0.3	< 0.3	0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	24	23	19	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	1	< 1.0	< 1.0	1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	94	94	81	67	88

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-024065
Project / Site name: Mount Road, Gorton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
541749	TS101	None Supplied	None Supplied	Brown loam and sand with gravel
541750	TS102	None Supplied	None Supplied	Brown clay and loam with gravel
541751	TS103	None Supplied	None Supplied	Brown clay and loam with gravel
541752	TS104	None Supplied	None Supplied	Brown clay and loam with gravel
541753	TS105	None Supplied	None Supplied	Brown clay and loam with gravel
541754	TS106	None Supplied	None Supplied	Brown clay and loam with gravel
541755	TS107	None Supplied	None Supplied	Brown clay and loam with gravel
541756	TS108	None Supplied	None Supplied	Brown clay and loam with gravel
541757	TS109	None Supplied	None Supplied	Brown clay and loam with gravel
541758	TS110	None Supplied	None Supplied	Brown loam and clay with gravel

Analytical Report Number : 25-024065
Project / Site name: Mount Road, Gorton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

APPENDIX E

Materials Management Plan



**BROWNFIELD
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GEO-ENVIRONMENTAL ENGINEERING EXCELLENCE

KELLEN HOMES LTD

Mount Road, Gorton

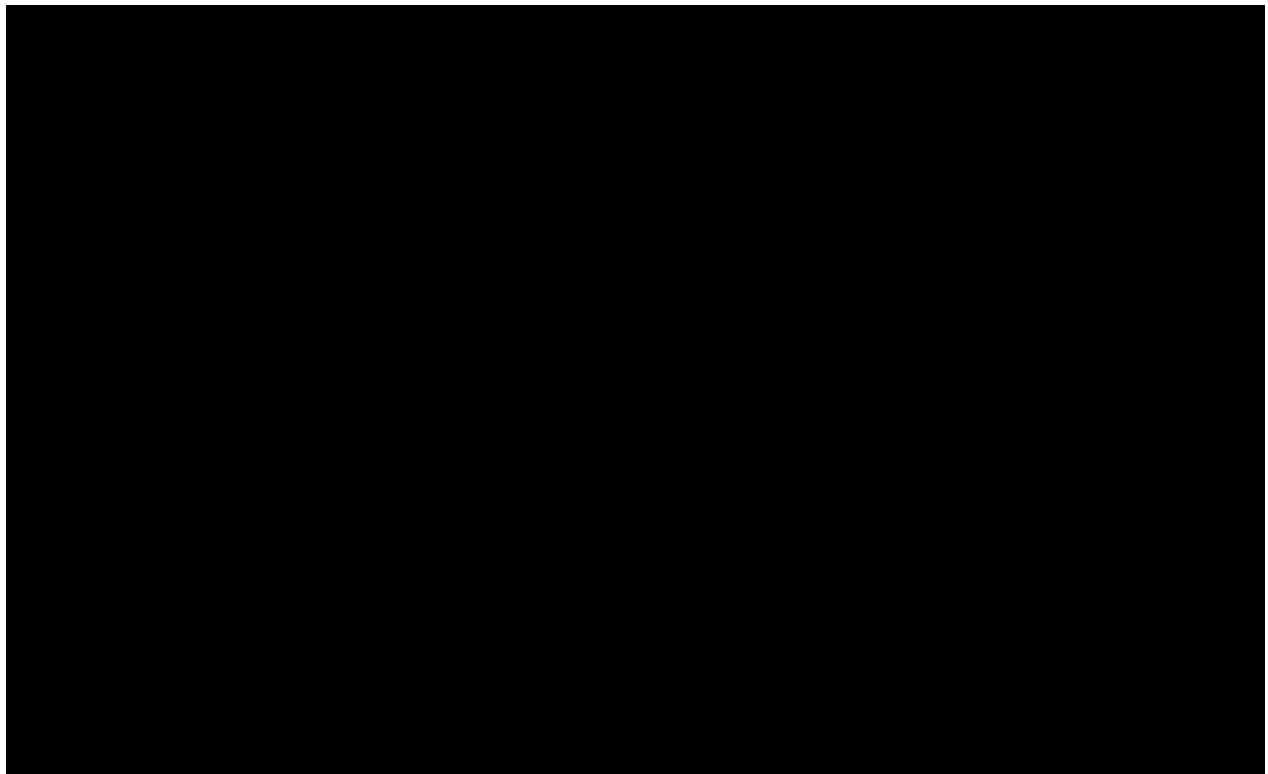
Materials Management Plan

NS/C5150/13285 Rev A

May 2025

PROJECT QUALITY CONTROL DATA SHEET

Site Name:	Mount Road, Gorton		
Document Name:	Materials Management Plan		
Reference:	NS/C5150/13285 Rev A		
Status	-	23/07/2024	Draft.
	-	24/09/2024	Final Issie.
	Rev A	20/05/2025	Redeclaration for donor site update



APPENDICES	
Appendix	Title
Appendix A	Supporting Information



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Materials Management Plan (MMP) Form – Based on CL:AIRE October 2014 Version

This form should be completed once the lines of evidence have been marshalled in relation to suitability for use, certainty of use and quantity required.

The answers to the questions posed within this form, together with the supporting information will constitute the MMP and must be provided to the Qualified Person.

A Qualified Person may comment on draft versions of this MMP, but will not complete the Declaration until all the relevant documents, demonstrating lines of evidence have been provided for each site.

The person / organisation who will pay the Declaration fee should confirm that they have read and understand the Terms and Conditions relating to the payment of the Declaration fee to CL:AIRE. These can be found on the CL:AIRE website.

The person / organisation agreeing to pay the Declaration Fee - Name, organisation and contact details inc. email address

Peter Holland
Brownfield Solutions Limited
William Smith House
173 – 183 Witton Street
Northwich
Cheshire
CW9 5LP

☒ **I confirm I have read and understood the Terms & Conditions.**

Each question must be answered. If the question is not applicable please state this and provide a brief explanation.

1. Specify the scenario to which this MMP relates, as described in the Definition of Waste: Development Industry Code of Practice (DoW CoP) (1, 2, 3 or 4):

- ☐ 1. Reuse on the Site of Origin
- ☒ 2. Direct Transfer of clean naturally occurring soil / mineral materials
- ☐ 3. Cluster Project
- ☐ 4. Combination of any of the above

In the case of a combination of reuse scenarios, please describe it below (e.g. (i) Reuse on Site of Origin and Direct Transfer of clean naturally occurring unpolluted soils, (ii) Reuse on the Site of Origin with Direct Transfer of clean naturally occurring soil to x number of development sites etc.:

Works will comprise re-use on Site of Origin and Direct Transfer of chemically suitable naturally occurring soils validated in respect to the proposed end uses, with imported topsoil predominantly for use in private gardens and soft landscaping (POS) areas.

(NB: A Declaration is required for reuse on the Site of Origin and for any 2 site arrangement i.e. there is no facility for a combination Declaration)

Note - revisions to the MMP do not trigger an additional Declaration by a Qualified Person, unless an additional site is added to the project.

2. Organisation and name of person preparing this MMP	Nicola Swallow Brownfield Solutions Limited William Smith House 173 – 183 Witton Street Northwich Cheshire CW9 5LP 01606 334844 [REDACTED]
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Site Details

3. Site / Project name(s)	Mellands Park, Mount Road, Gorton
Reuse / receiving site name including Postcode:	Mellands Park, Mount Road, Gorton, M18 7QU
Grid Reference:	388289, 395020
Donor site name (if Direct Transfer)	Donor Site 1: The Finches at Hilton Grange, Lower Road, Liverpool, Merseyside L26 0BQ Donor Site 1 operated by Redrow, Redrow House, St David's Park, Ewloe, Flintshire, United Kingdom, CH5 3RX.

Landowners

4a. Name of Landowner(s) (full address and contact details) – where excavated materials are to be reused	Kellen Homes Limited 1st Floor 103 Dalton Avenue Birchwood Park Warrington WA3 6YE Tel: 01925 363108 Stuart Ellis [REDACTED]
4b. Name of Landowner(s) (full address and contact details) – where excavated materials are arising from	<u>Onsite Re-use</u> Kellen Homes Limited 1st Floor 103 Dalton Avenue Birchwood Park Warrington WA3 6YE Stuart Ellis

	<div style="background-color: black; height: 1.2em; width: 100%;"></div> <p>Tel: 01925 363108</p> <p><u>Donor Site 1</u></p> <p>Redrow</p> <p>Redrow House</p> <p>St David's Park</p> <p>Ewloe</p> <p>Flintshire</p> <p>United Kingdom</p> <p>CH5 3RX</p> <p>01928 785800</p>
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Summary and objectives

5a. Provide a brief description of the planned project and how excavated materials are to be reused.	<p>The proposed development is for 267 residential houses and 36 apartments with associated highways, infrastructure, gardens and soft landscaping. There will also be the construction of a youth, sports and community hub alongside 2 football pitches, sports court and a cricket strip.</p> <p>Material will be excavated and re-used onsite, in order to raise site levels to the agreed development platform.</p> <p>Direct transfer of clean topsoil and subsoil will also be used for the creation of a 600mm chemically suitable clean cover system within gardens/POS areas.</p> <p>Areas of cohesive soils within tree influence depths will be excavated for geotechnical purposes and replaced with suitable granular fill under an engineering specification (BSL Earthworks Specification reference JW/C5150/13159 June 2024). Resultant subsoil will be utilised elsewhere on site.</p> <p>For the sports pitches to be constructed in the south western part of the site, it is proposed site won topsoil/subsoil and made ground will be utilised in these areas as part of the build-up.</p> <p>The Rev A update for this MMP covers the addition of the donor site details for the import of 500m³ of topsoil (Donor Site 1) from the The Finches at Hilton Grange, Lower Road, Liverpool, Merseyside L26 0BQ (Redrow).</p>
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General Plans and Schematics

6. Attach a location plan for the site(s) and a plan of the site(s) which identifies where different materials are to be excavated from, stockpile locations (if applicable), where materials are to be treated (if applicable) and where materials are to be reused.	<p>Site Location Plan C5150/01</p> <p>Proposed Site Layout Plan KH008-A-100 P8</p> <p>BSL Exploratory Hole Plan, Drawing No. C5150/03A&B</p> <p>Redrow Location Plan, Drawing No. 4152-LP-001</p> <p>Betts Geo Exploratory Hole Location Plan, Drawing No. EXP 101</p>
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7. Attach a schematic of proposed materials movement. Where there is only one source area and one placement area briefly describe it. For all other projects a schematic is required.	<p>Schematic presented in Section 7 of supporting information.</p> <p>Cut and Fill – Houses, Drawing No. KH008-604-1</p> <p>Cut and Fill – Pitches, Drawing No. KH008-604-2 Rev B (Pitches)</p> <p>Foundation Strategy Key Plan, Drawing No. 21659-CCL-XX-FN-DR-S-027-C02</p> <p>Removal of Desiccated Material – Reduced Level Dig Plan, Drawing No. 21659-CCL-XX-FN-DR-S-030-C01</p>
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Parties Involved and Consultation – if more than one party please provide additional details for them and identify the location that they will be working e.g. where a site is zoned.

8a. Main earthworks contractor(s) (full address and contact details) – Where excavated materials are to be reused.	<p>WPI Group Steve Duffy - [REDACTED] [REDACTED] WPI Civil Engineering Ltd King Street Trading Estate Middlewich Cheshire CW10 9LF</p>
8b. Main earthworks contractor(s) (full address and contact details) - Where excavated materials are arising from (Donor Site).	<p><u>Donor Site 1: Earthworks Contractor</u> WPI Group Steve Duffy - [REDACTED] [REDACTED] WPI Civil Engineering Ltd King Street Trading Estate Middlewich Cheshire CW10 9LF</p> <p><u>Donor Site 1: Donor Site Details</u> The Finches at Hilton Grange Lower Road Liverpool Merseyside L26 0BQ</p>

9. Treatment contractor(s) (full address and contact details) – for treatment on site of origin, or at a Hub site within a fixed STF / Cluster Project	N/A
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10. Where wastes and materials are to be transported between sites, provide details of the transport contractor(s) (full address, contact details and waste carriers registration details (if applicable))	<p>Frank O’Gara & Sons Ltd. [REDACTED] Sorby Road Northbank Industrial Park Irlam Manchester M44 5BA</p>
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11. Provide Local Authority contact details (full address and named contacts) where excavated materials are to be reused	Rebecca Twigg-Purcell Manchester City Council Environmental Protection Officer Public Health Manchester PO Box 532 Town Hall Manchester M60 2LA [REDACTED]
12a. For the site where materials are to be reused and for Hub Site locations provide Environment Agency contact details (full address and named contacts):	Environment Agency Richard Fairclough House Knutsford Road Latchford Warrington Cheshire WA4 1HT [REDACTED] 03708 506506
For all Cluster Projects: 12b. Attach any relevant documentation from the EA relating to the excavation and reuse of the materials to demonstrate no objection to the proposals (see 3.37 of DoW CoP). If the EA has not been consulted please explain why (see paragraph 3.39 of the DoW CoP).	N/A

Lines of Evidence

There is no one single factor that can be used to decide that a substance or object is waste, or when it is, at what point it ceases to be waste; as complete a picture as possible has to be created.

The following sections require completion to ensure the correct decision is made.

If a requested item is not relevant it is important to clearly state why this is so (e.g. no planning permission required because permitted development status exists).

Suitable for use criteria

13. Please describe or provide copies of the required specification(s) for the materials to be reused on each site.	The chemical specification for reuse of materials on site is set out in Appendix A of the BSL Report NA/C5150/11739 Rev E Remedial Strategy dated November 2024. See Section 13 of supporting information. BSL Earthworks Specification reference JW/C5150/13159 June 2024.
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<p>Where contamination is suspected or known to be present</p> <p>14a. Please provide copies of or relevant extracts from the risk assessment(s) that has been used to determine the specification for use on the site. This must relate to the place where materials are to be used. This must be in terms of (i) human health (ii) controlled waters and (iii) any other relevant receptors. If a risk assessment is not relevant for a particular receptor given the site setting please explain why below:</p>	<p>Desk Top Study: BSL's Phase I Geo-Environmental Assessment Report (ref. LC/C5150/11494 Rev B) dated November 2023.</p> <p>BSL's Phase II Geo-Environmental Assessment Report (ref. MS/C5150/11591 Rev E) dated November 2023 revealed elevations of PAHs (benzo(a)pyrene) and heavy metals (arsenic, copper, lead, mercury and nickel) above the residential end-use with homegrown produce screening criteria (human health). Glass has also been noted within the topsoil, making it physically unsuitable for re-use in residential gardens.</p> <p>BSL Supplementary Geo-Environmental Site Investigation (ref. MB/C5150/12138) dated June 2023 - It would appear that the majority of the topsoil would be unsuitable for end use scenarios of commercial, POS and residential uses in their current state. However, with appropriate screening / sorting to remove glass this could negate ~50% of soils going to landfill with them being suitable for re-use on a commercial site or in POS areas</p> <p>Risks to controlled waters are considered to be low (AJS/C5150/12793 Rev EA Response Letter February 2024).</p> <p>The intent is to excavate and re-use as much of the topsoil and made ground in lower sensitivity areas of the site as feasible within the cut/fill balance (such as below the sports pitches build up), with a 600mm clean cover system in place elsewhere across the site to be made up from a combination of site won chemically suitable subsoil and imported soil.</p> <p>Topsoil is intended to be imported from Donor Site 1. The volume of material proposed to be imported is 500m³. In line with the BSL Remedial Strategy (ref. NA/C5150/11739 Rev E), 10 samples of the material were taken at a frequency of 1:50m³. Testing results showed the topsoil was chemical suitable for residential end-use.</p> <p>The Ground Investigation Report for Donor Site 1 is also available in the supporting information document ref. 17RED147/GI which shows no significant contamination was encountered during the ground investigation.</p>
<p>14b. Please attach any relevant documentation from the LA relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 of the CoP).</p>	<p>Planning Permission for the site was issued by Manchester City Council. Application number: 138788/FO/2023.</p> <p>See Section 14b supporting information. Email from LPA - Ms Rebecca Twigg-Purcell made the following comment via email on 11th June 2024:</p>

	<p><i>"We don't usually comment on MMPs but have no objection in principle, however, I'd advise that you contact the Environment Agency regarding this as they are the waste regulator rather than the local authority."</i></p> <p>Additionally, the Remediation Strategy (ref. NA/C5150/11739 Rev E) outlines the re-use of materials, this report has been submitted and no comments have been made.</p>
14c. Please attach any relevant documentation from the EA relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 and Table 2 of the CoP).	<p>See Section 14c supporting information. Email from Mr Stephen Bostock, Environment Agency Waste Enquiries made the following comment on 24th June 2024:</p> <p><i>"Thank you for informing us you intend to use the DoWCoP for materials re-use on this site, providing that the DoWCoP is followed in full we have no objections to materials use, in accordance with our Regulatory Position Statement."</i></p>
14d. Please attach any relevant documentation from any other regulators (if relevant) relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 of the CoP).	N/A

<i>Where contamination is not suspected</i>	N/A
15a. Please attach copies or relevant extracts from the Desk Top Study that demonstrates that there is no suspicion of contamination.	
15b. Please attach copies of or relevant extracts from the site investigation/testing reports that adequately characterise the clean materials to be used (if appropriate).	<p>Donor Site 1:</p> <p>Other than the white materials, no significant contamination was encountered across the site. Betts Geo Ground Investigation Report ref. 17RED147/GI.</p>
15c. Please attach copies of any other relevant information (if available) confirming that land contamination is not an issue.	N/A

NB: It is your responsibility to assess the nature of the material to be used and that it fits within the limitations of the scenario under which it is to be used.

Certainty of use

Various lines of evidence are required to demonstrate that the materials are certain to be used. This includes:

- The production of this MMP
- An appropriate planning permission (or conditions that link with the reuse of the said materials)
- An agreed Remediation Strategy(ies)
- An agreed Design Statement(s)
- Details of the contractual arrangements

Please identify in the following sections what lines of evidence relate to the site(s) **where the materials are to be used**.

16a. Planning Permission(s) relating to the site where materials are to be reused Please provide a copy of the relevant planning permission.	138788/FO/2023 Manchester City Council Planning Conditions presented in supporting information Section 16a.
16b. Explain how the reuse of the excavated materials fits within the planning permission(s) for each site.	Conditions 14 and 15 of planning notice 138788/FO/2023 detail the remediation of contaminated material and the need for a Remediation Strategy and Remediation Method Statement, along with a Remediation Verification report to confirm the remedial works have been undertaken as approved and have been done so successfully. The RS and RMS both detail the reuse and/or remediation of the excavated site won material. Site levels will be engineered in line with the agreed finished floor levels submitted to planning.
16c. If planning permission is not required for any one site please explain why below e.g. permitted development, clean up of a chemical spill, surrender of an Environmental Permit, re-contouring within the existing permission.	N/A
<i>Where contamination is suspected or is known to be present</i> 17. Please provide a copy of any Remediation Strategy(ies) that have been agreed with relevant regulators.	Brownfield Solutions Ltd report reference '11739 Remedial Strategy' NA/C5150/11739 Rev E dated November 2024.
<i>Where contamination is not suspected</i> 18. Please provide a copy of any Design Statement(s) that have been agreed (e.g. with the planning authority or in the case of permitted developments the client).	N/A

Quantity of Use

19. Please provide a breakdown of the excavated materials for each site and how much will be placed at each site or sub area of each site. Where this is not specific to a single readily identifiable source refer to an annotated plan, schematic or attach a tabulated summary.	The site will be subject to a series of cut and fill exercises to build the development level across the site, see drawings below (Section 7 supporting information): Cut and Fill – Houses, Drawing No. KH008-604-1 Cut and Fill – Pitches, Drawing No. KH008-604-2 Rev B (Pitches) Foundation Strategy Key Plan, Drawing No. 21659-CCL-XX-FN-DR-S-027-C02 Removal of Desiccated Material – Reduced Level Dig Plan, Drawing No. 21659-CCL-XX-FN-DR-S-030-C01 Modelling of volumes includes depths for roads, footways, build up below structures etc. There is also a requirement to import material to form a clean cover layer. The remediation strategy states that for gardens, this clean cover should be a minimum of 600mm thick (150mm topsoil, 450mm sub-soil) and POS areas is to be 450mm (undefined topsoil/sub-soil thicknesses) and the sports pitches to be 600mm thick comprises 200mm topsoil, 400mm subsoil and a geotextile
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separation layer The volumes for re-use and required import of chemically suitable material for Kellen Homes are detailed below:

Item	Volume (m ³)
Cut - Pitches	132.51
Fill - Pitches	9522.37
Nett Fill - Pitches	9,389.86
Cut - Houses	8921.42
Fill - Houses	8409.59
Nett – Houses - Excess	511.83
Total Cut	9053.93
Total Fill	17,931.96
To be Imported	8,878.03
Mass Balance	-8878.03

No subsoil is to be imported at present.

11,000m³ of topsoil and 8,500m³ of subsoil (unsuitable soils) are to be removed from the site (19,500m³).

There is a requirement to import 4000m³ of topsoil; as donor sites become available this MMP will be updated and redeclared.

The first donor site for the topsoil will be The Finches at Hilton Grange, Halewood, which is a Redrow site. The volume of materials to be imported from this site is **500m³**. Further donor sites may be required in addition to the 500m³ and this MMP will be updated and redeclared when these details are available. The full volume of proposed import topsoil has already been declared above (4000m³), with this Rev A being an administrative update for the first donor site.

First generation quarried stone and recycled aggregates produced under the WRAP quality protocol (i.e. end of waste criteria has been met) will be imported to site to form road construction and plots build ups; these fall outside of the DoWCoP. This is estimated to be 4,878.03 m³.

Volume to be declared under this MMP for site won materials re-use (Rev -): **17,931.96m³**.

20a. How has consolidation/compaction being considered in the above mass balance calculations?	As per the remediation strategy, compaction to a general specification will be undertaken and has been taken into consideration.
20b. How has loss due to treatment being considered in the above mass balance calculations (if applicable)?	N/A
20c. How has the addition of treatment materials being considered in the above mass balance calculations (if applicable)?	N/A

Contingency arrangements

Explain what is to happen in the following situations and **identify the appropriate clauses** in the contract(s) (Such clauses must be provided to the Qualified Person, preferably as a summary document):
or

21a. What is to happen to, and who is to pay for out of specification materials?	<p>The main contractor will be responsible for resolving or removing out of specification materials. Should problems arise with the main contractor (e.g. insolvency), then Kellen Homes Ltd should become responsible.</p> <p>Resolution of issues may include providing for additional treatment or agreeing an alternative acceptable location for use (subject to being demonstrably suitable for use in that alternative location).</p> <p>*It is assumed that pollution control measures in relation to dusts, odours, spills, invasive species etc are covered in other documentation (e.g. a CEMP).</p>
21b. What is to happen to, and who is to pay for any excess materials?	<p>Significant differences in materials will either be managed on site, removed from site under an MMP as clean, naturally occurring material, or disposed of site to a suitably licenced facility. Kellen Homes will be responsible for the costs of this operation. See the materials use flow chart in support information.</p>
21c. What happens if the project programme slips in relation to excavated materials or materials under -going treatment?	<p>The risk of program over-run is considered low within the overall development and the potential for it to affect the development.</p> <p>No materials requiring treatment at this stage.</p>
21d. Other identified risk scenarios for the project (relating to excavated materials)?	N/A

The Tracking System

Where contamination is suspected, or known to be present, state the procedures put in place to:

22a. For all sites please describe the tracking system to be employed to monitor materials movements.	<p>The materials tracking form is provided in Section 22a of supporting information and it will be the responsibility of the site manager to maintain the tracking system and other suitable records, including drawings of stockpile locations etc.</p>
<p>Where contamination is suspected or known to be present, state the procedures put in place to:</p> <p>22b. Prevent contaminants not suitable for the treatment process being accepted.</p>	<p>All material which requires treatment on site will be suitable for the selected treatment process.</p>
<p>Where contamination is suspected or known to be present, state the procedures put in place to:</p> <p>22c. Prevent cross contamination of materials not in need of treatment, wastes awaiting treatment and treated materials.</p>	<p>A remediation engineer will supervise the excavation and turnover to identify any unexpected contamination, determine the route of excavated material based on field screening and ensure the surveying of final excavations.</p> <p>The engineer will collect validation samples from the excavation where required to ensure contamination has been removed.</p> <p>Segregation of materials and stockpiles should be maintained, and accurate records kept to avoid the</p>

	<p>potential for cross contamination. Good site practice for stockpile management includes, but is not limited to:</p> <ul style="list-style-type: none"> • Damping down of the site surface, excavations and stockpiles to prevent the generation of dust (wind blown asbestos fibres can contaminate “clean” topsoil stockpiles potentially resulting in expensive disposal costs). • Stockpiles sizes should be kept to a minimum to reduce ‘wind whip’ causing potentially hazardous material to be blown from the pile. • Once at the intended size, stockpiles should be “sealed” to ensure no excess materials are placed and mixed into the stockpiled to prevent cross contamination. • Clean, validated material proposed for re-use as part of the cover system should ideally be placed on a suitable polythene membrane or clean concrete hardstanding to prevent any cross contamination. • Appropriate loading of plant to prevent spillages. • Appropriate signage should be displayed so that site workers/visitors are aware of the intended use and are alerted to the potential hazards associated with the material to be stored on site.
<p><i>Where contamination is suspected or known to be present, state the procedures put in place to:</i></p> <p>22d. Demonstrate that materials that do not require treatment and successfully treated materials reach their specific destination.</p>	<p>Control of materials will be via the materials tracking form (22a and 23 Section of supporting information), with records of tests and stockpiles as per the flow chart, presented in the supporting information Section 22d.</p>
<p><i>Where contamination is suspected or known to be present, state the procedures put in place to:</i></p> <p>22e. Ensure that waste for off-site disposal or treatment is properly characterised and goes to the correct facility.</p>	<p>Control of materials will be via the materials tracking form and spreadsheets.</p> <p>Materials on site are already extensively characterised for waste classification.</p> <p>Waste transfer notes will be retained for any soils disposed off site for inclusion in verification reporting.</p>
<p>23. Please attach a copy of the tracking forms / control sheets that are to be used to monitor materials movements.</p> <p>To include transfer of loads on site into stockpiles prior to treatment (if applicable), stockpiled after treatment (if applicable), stockpiled awaiting use (as appropriate) and final placement.</p>	<p>BSL materials tracking form - excel sheet. Copy presented in Section 22a and 23 folder of supporting information.</p>
<p><i>For Hub Sites within Cluster Projects & where materials need treatment before reuse:</i></p>	<p>N/A</p>

24. Please attach a copy of the Environmental Permit covering the treatment process.

Alternatively, if the treatment is covered by a Mobile Plant Permit and associated Deployment Form, attach a copy of the EA agreement to the Deployment Form.

Records

25. Where, and in what form, are records to be kept?

Note – records e.g. transfer notes, delivery tickets, Desk Top Study, Site Investigation, Risk Assessment(s), Verification Report(s) need to be kept for at least 2 years after the completion of the works and production of the Verification Report.

Brownfield Solutions will collate all the records supplied by the contractor at the end of the contract and present a full electronic copy of the data to Kellen Homes Ltd. A backup copy of the records will also be available from Brownfield Solutions Limited for at least 2 years.

Verification Plan

26. Provide or explain the Verification Plan which sets out how you will record the placement of materials and prove that excavated materials have been reused in the correct location and in the correct quantities within the development works (see 3.4 of the DoW CoP).

Tracking forms/excel spreadsheets and stockpile plans will monitor the movement of the material. Periodic survey records of the filling as the works progresses will be maintained by the contractor. A photographic record will also be kept as the work progresses.

Outline of the verification plan is provided in the supporting information Section 26.

Estimated Date of issue of Verification Report

24/09/2025 (Interim Update)

Persons responsible for producing the Verification Report:

Peter Holland
Brownfield Solutions Limited
William Smith House
173 – 183 Witton Street
Northwich
Cheshire
CW9 5LP
01606 334844
[REDACTED]

APPENDIX A

Supporting Information

This can be accessed via the link below:

[Appendix A Supporting Information](#)

Should you have any issues accessing the above link, please contact Brownfield Solutions.

APPENDIX F

Materials Movement Records

Materials Management - Tracking Form

Project No:	C5150	NOTE: TO ENSURE COMPLIANCE ALL MATERIALS (SITE WON OR IMPORTED) SHOULD BE DECLARED PRIOR TO IMPORT/RE-USE. ALL DELIVERY AND TRANSFER NOTES TO BE RETAINED.
Site:	Mount Road, Gorton	
MIMP Ref:	NS/C5150/13285	

Stockpile Ref (unique ref)	Material Source	Material type	Volume (m3)	Testing Results - confirm suitability	Placement location		volume placed (m3)	Date placed
E.g. TS/SS/01	E.g. Site won	E.g. Topsoil	E.g. 1000	E.g. See report ref xxx	E.g. Plots 1-5 gardens		E.g. 100	XX/XX/XX
sub 1	sewers	SUBSOIL	2939.38		2m Service Strip	3.04%	89.45	
	sewers	SUBSOIL	1239.77		Rear Gardens to underside of clean cover (246 - 263 & 159 - 165)	16.85%	208.95	gross to Apr 25
	sewers	SUBSOIL	763.74		Front Gardens & POSto underside of clean cover	0.00%	0.00	
	sewers/ Wembley Road vibro	SUBSOIL	10189.70		Clean Cover (retained from site) as A Brown calcs	16.85%	1717.36	gross to Apr 25
	sewers	SUBSOIL	5961.69		Football Pitch Fill	100.00%	5961.69	gross to Apr 25
	sewers	SUBSOIL	463.43		SW Attenuation	100.00%	463.43	gross to Apr 25
	sewers	SUBSOIL	457.94		Plots	74.64%	341.82	gross to Apr 25
	sewers	SUBSOIL	364.84		Scaffold base	74.64%	272.32	gross to Apr 25
	area below Wembley Road Plots	ash	3319.51		Vibro Plots (Wembley Road) (ash overlying dessicated clays, placed back in excavation)	100.00%	3319.51	gross to Apr 25
	Sewers	SUBSOIL	3658.90		Vibro Plots (Wembley Road) subsoil placed back in excavation)	100.00%	3658.90	gross to Apr 25
		TOPSOIL	2808.02		football pitches	100.00%	2808.02	gross to Apr 25
		TOPSOIL	11050.33		off site	100.00%	11050.33	gross to Apr 25
		HAZ TOPSOIL	3491.83		football pitches	100.00%	3491.83	gross to Apr 25
		plot excavation	8480.96		off site	5.19%	440.00	gross to Apr 25

Apr 25 Quants	Mar 25 Quants
89.45	0.00
32.50	176.45
0.00	0.00
267.15	1450.22
0.00	5961.69
0.00	463.43
82.54	259.28
65.76	206.57
0.00	3319.51
0.00	3658.90
702.01	2106.02
4972.65	6077.68
0.00	3491.83

440.00	0.00
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