



ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

INTRODUCTION

On the instruction of Manchester (Port Street) Limited and in accordance with the fee proposal November 2021, WSP has undertaken a supplementary round of ground investigation at the Port Street site.

This note is provided as an addendum to our Interpretative Ground Investigation Report (IGR) (ref. 70084785-WSP-GEO-IGR-001 November 2021) and should be read in conjunction with this document.

OBJECTIVES AND SCOPE

The objectives of the supplementary investigation were to:

- investigate whether the former canal walls remain in situ and refine their extent;
- investigate the depth of the former canal; and,
- take additional samples for geo-chemical analysis.

This Addendum presents the factual investigation and laboratory testing information and provides an update to the advice provided in the IGR, where appropriate.

GROUND INVESTIGATION

Fieldwork

The fieldwork was specified and observed part-time by WSP and undertaken by Geotechnics Ltd. between 11 and 16 November 2021.

An exploratory hole location plan is included within **Appendix A**.

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Table 1 – Summary of Fieldwork

Investigation Method	No. of Positions	Depth (m BGL*)	Notes
Cable percussion borehole	2 (BH05 – BH06)	5.00	To refine the expected depth of fill within the canal. To provide additional sampling location for geo-environmental analysis.
Machine excavated trial trench	4 (TT01 – TT04)	2.20 – 2.70	To refine the expected depth of fill within the canal. To refine the extent of canal walls in situ. To provide additional sampling location for geo-environmental analysis.
Machine excavated trial pit	3 (HP01 – HP03)	1.50 – 2.30	To provide additional sampling locations for geo-environmental analysis.

No groundwater or ground gas monitoring was undertaken as part of this investigation.

IN SITU TESTING

Standard Penetration Tests (SPTs) were performed within the cable percussion boreholes. The test results are presented on the exploratory hole records (**Appendix B**).

Hand Shear Vane (HSV) testing was undertaken within Trial Trenches. The test results are presented on exploratory hole records (**Appendix B**).



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LABORATORY TESTING

Geochemical Testing - Soils

Samples of Made Ground and natural soils were submitted for laboratory chemical analysis of the following determinants.

- Metals suite – arsenic, cadmium, chromium, hexavalent chromium, copper, lead, mercury, nickel, selenium and zinc;
- PAHs;
- Banded petroleum hydrocarbons (EPH C10-C40);
- Asbestos identification;
- Asbestos content quantification (5 samples);
- Phenols; and,
- VOC & SVOC.

GROUND SUMMARY

The three trial pits (HP01 to HP03) were undertaken at road level and to a maximum depth of 2.30m bgl.

All three pits indicated Made Ground (predominantly granular) present from the surface. HP01 recorded sand and gravel mixtures with fragments coal, brick and clinker. HP02 and HP03 encountered predominantly fragments of brick with in situ brick walls recorded in HP02.

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Brick walls in HP02



Brick rubble in HP03



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HP01 was the only pit to encounter natural ground, with a firm clay recorded at a depth of 1.90m bgl. This is slightly shallower than the previous investigation which was 2.50m bgl at its shallowest.

The remaining exploratory holes were all undertaken at the lower level within the footprint of the filled canal. Logs indicate the base of the canal to be between 2.20 and 2.50m bgl, consistent with the previous investigation.

The Made Ground within the former canal in TT01, TT02 and TT03 was noted to largely comprise a very soft clay/silt with a strong hydrocarbon odour.

Canal infill in TT02



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GROUNDWATER

A summary of the groundwater observations recorded during site works is given in **Table 2**.

Table 2 – Summary of groundwater observations

Exploratory Hole	Depth (m bgl)	Strata	Notes
HP01	1.6	Made Ground	Slight seepage.
TT01	0.4	Made Ground	Slow seepage
	0.8	Made Ground	Slow seepage
	1.8	Made Ground	Slow seepage, oily sheen
TT02	0.6	Made Ground	Slow seepage
TT03	0.9	Made Ground	Moderate inflow, oily sheen on surface

EVIDENCE OF CONTAMINATION

Visual and olfactory signs of hydrocarbon contamination were observed within granular Made Ground encountered in both cable percussive boreholes and all four trial trench excavations. The contamination observations are summarised in **Table 2**.

Table 2: Summary of Contamination Observations

Exploratory Hole	Depth (m bgl)	Stratum	Observations
BH05	0.40-0.70	Granular Made Ground	Strong hydrocarbon odour
	1.30-2.20	Granular Made Ground	Strong hydrocarbon odour
BH06	1.20-2.20	Granular Made Ground	Strong hydrocarbon odour
TT01	0.40-0.80	Granular Made Ground	Hydrocarbon odour
	0.80-1.40	Granular Made Ground	Strong hydrocarbon odour

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Exploratory Hole	Depth (m bgl)	Stratum	Observations
	1.80-2.50	Granular Made Ground	Very strong hydrocarbon odour Water entering trial pit below 1.80m bgl noted to have oily sheen
TT02	0.60-2.20	Granular Made Ground	Strong hydrocarbon odour
TT03	0.50-2.20	Granular Made Ground	Strong hydrocarbon odour Water entering trial pit below 0.90m bgl noted to have oily sheen
TT04	0.12-0.55	Granular Made Ground	Hydrocarbon odour
TT04	0.65-2.40	Granular Made Ground	Hydrocarbon odour

GEOTECHNICAL & ENGINEERING ASSESSMENT

The following section is not intended to be read in isolation and should be considered together with IGR.

The focus of the geotechnical elements of this investigation were to determine the depth of Made Ground within the former canal and investigate if the canal walls remained in situ and refine their extent.

Both boreholes and all trial trenches were undertaken within the extents of the canal and indicated the depth of the canal to range between 2.20 and 2.50m below ground level (bgl). The previous investigation (May 2021) identified Made Ground thicknesses of 2.50m (possible to 3.00m) and >6.45m bgl. Based on a review of all exploratory holes and in situ testing it is considered that the likely depth of canal fill is 2.50m bgl.

Of the four trial trenches undertaken, three identified a brick wall with sandstone coping aligned with the expected orientation of the canal, likely to be the canal wall. The top of the coping was found to be between 0.40 to 0.80m bgl, and the brick wall extending to a depth of 2.50m bgl.

TT03 did not encounter a brick structure but did record a concrete slab in roughly the same orientation as the canal and at a level similar to the coping found in the other trial trenches.

The very soft clays/silts observed in TT01, TT02 and TT03 are considered unlikely to be suitable for supporting loads or pavements and present a risk of unacceptable settlements occurring. In addition, the presence of such poor materials close to ground level also poses a risk of potential ground instability when subject to loading from heavy plant. It is considered that these materials will require removal where they

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are present below the structure, external paved areas, or areas that may be subject to trafficking during the construction.

Piling Obstructions

This investigation has confirmed that the canal walls remain in situ as such the advice provided within the IGR is still considered valid.

It is understood that the pile caps may be approximately 2m deep and as such, where clashes with the canal walls exist, most should be removed during the excavation for the cap. Deepening of the cap excavations, to the base of the Made Ground, could be considered to mitigate the risk of piles clashing with the walls. Further reference should be made to the General Excavations section with regard to risks associated with excavation or disturbance of the fill material.

Floor Slabs / Basement Surfacing

Outwith the area of the filled canal the advice remains.

Within the semi basement, the car park and cycle store lie over the former canal basin, and it is assumed that a conventional flexible surface will be used. As discussed above, the very soft clays/silts observed in in the trial trenches will need to be removed and replaced with compacted granular fill.

General Excavations

The additional investigation does not alter the recommendations made in the IGR. However, it was noted that the materials used to backfill the canal are more varied than previously identified, and where granular materials were present they were associated with inflows of water and instability.

Where very soft clay/silt materials (TT01, TT02 and TT03) were present with greater flows of groundwater they degraded rapidly on excavation or disturbance leading to instability. As discussed above, these materials are considered unsuitable to remain insitu. Re-engineering the soils to a suitable standard may be impractical and they may need to be removed from site.

Materials such as brick rubble will require crushing and screening if they are to be reused on the site as fill.

It is considered prudent to have early discussion with a Contractor to consider options available for excavations generally and particularly within the footprint of the filled canal. Consideration should be given to but not be limited to management and disposal of water, stability of excavations, processing of unsuitable soils and removal of materials unsuitable for recompaction.

Geotechnical Risk Register

A Geotechnical Risk Register is presented within **Appendix F**.



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HUMAN HEALTH RISK ASSESSMENT

Legislation and guidance on the assessment of potentially contaminated sites acknowledges the need for a tiered risk-based approach. It incorporates a comparison of site contaminant levels against generic assessment criteria (GAC), including a qualitative assessment of risk using the source-pathway-receptor model. The purpose of this Generic Quantitative Risk Assessment (GQRA) is to assess potential risks to human health based on the proposed future end users of the site.

To provide a consistent methodology for the assessment of contaminants, a series of soil GAC screening values have been derived by WSP using the Environment Agency's CLEA model. Based on the proposed development of the site for multi storey residential housing the soil chemical data was compared against GAC representative of a residential end use (without plant uptake)

An average Soil Organic Matter (SOM) content of 2.9% was recorded in previous soil samples taken from the site, therefore a SOM of 3% was used to screen the samples against GACs.

Laboratory Chemical Analysis Results

A total of 20 soil samples were taken from nine exploratory hole locations across the site. Samples were submitted for a range of inorganic and organic compounds based on the potential contaminants of concern identified in the preliminary CSM.

Human Health Risk Assessment Summary

Concentrations in exceedance of the adopted assessment criteria protective of human health have been identified for arsenic, lead and benzo(a)pyrene in exceedance of their respective GACs were recorded (in both Made Ground and natural soils) from across the site and over a range of depths including at shallow depth below ground level. Five samples of Made Ground were reported by the laboratory to have asbestos fibre bundles.

Waste Classification Assessment

Laboratory analysis results of the 20 samples taken during the additional works were screened using the online hazardous waste classification software 'Haz Waste Online'. HazWaste Online' to determine their waste classification. The waste classification assessment results are provided in **Appendix E**.

A summary of the hazardous waste classification results is provided in **Table 3**.

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Table 3: Summary of Hazardous Waste Classification Results

Sample Location	Depth (m bgl)	Stratum	Stratum Depth Range (m bgl)	Determinant
BH05	0.20	Granular Made Ground (canal infill)	0.10 – 0.40	TPH C6-C40
BH05	1.50	Cohesive Made Ground (canal infill)	1.30 – 2.20	Lead, copper, zinc
TT01	0.50	Granular Made Ground (canal infill)	0.40 – 0.80	TPH C6-C40, lead, zinc
TT03	0.24 – 0.50	Granular Made Ground (canal infill)	0.24 – 0.50	Asbestos
TT03	0.50 – 1.00	Cohesive Made Ground (canal infill)	0.50 – >2.20	TPH C6-C40, zinc
TT04	1.50	Cohesive Made Ground (canal infill)	0.65 – 2.40	TPH C6-C40, lead, copper, zinc

The remaining 14 samples were classified as non-hazardous waste. Any waste containing asbestos cannot be classified as inert waste. The recorded asbestos contents within one sample (TT03 (0.24 – 0.50)) was above the hazardous waste limit of 0.1%.

Summary of Outline Remediation Considerations

The findings from the supplementary ground investigation works are consistent with the findings recorded in the IGR. The identified contamination within the Made Ground at the site is considered to require remediation measures to mitigate the risks to human health with respect to the proposed development:

It is considered that in areas of hard cover (roadways/ pavements etc), this will provide adequate mitigation to future site users in respect of direct human health risks in relation to any existing contamination in underlying soils. However, appropriate remedial measures or mitigation will be required in areas where the concentration of contaminants of concern in shallow site soils present an unacceptable risk to sensitive receptors (site users, site workers and maintenance workers) in proposed areas of soft landscaping.

It is considered likely the most feasible strategy to address the risks associated with contaminated soils will include the removal of the identified source soils (Made Ground) by excavation and disposal off site to either a licensed disposal facility (landfill) or a licensed treatment facility (subject to final cut and fill requirements/generation of surplus soil) and the use of an in-ground barrier (such as a geotextile /



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geomembrane) and cover system to minimise the volumes of material to be removed from site where possible.

WSP note the thickness of any cover system to be used will require to be designed in conjunction with final design levels for the proposed development and should be discussed with the local planning authority to confirm acceptance.

Risks to groundworkers and below ground maintenance workers during the redevelopment should be mitigated by using appropriate site controls and by using personal protective equipment (PPE) in accordance with statutory health and safety regulations.

Free asbestos fibres have been identified within Made Ground at shallow depth at the site. Asbestos impacted Made Ground may still be present in un-investigated areas of the site. If a cover system is identified as being the most appropriate remedial technique to address the already identified risks to human health, the presence of asbestos should be considered during its design.

The risks posed to human health receptors from asbestos fibres during groundworks can be mitigated by implementing safe working practices and by using appropriate PPE. Should bulk ACM or free asbestos fibres be encountered during any stage of the proposed groundworks future site developers and contractors have a duty of care under the CAR 2012 to implement an Asbestos Management Plan and to mitigate potential human health risks.

Based on the recorded contaminants of concern, the majority of Made Ground soils excavated for off-site disposal may be classified as non-hazardous waste, with materials from the infill of the former canal to be disposed of as Hazardous Waste.



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APPENDIX

- Appendix A – Exploratory Hole Location Plan
- Appendix B – Exploratory Hole Logs
- Appendix C – Trial Pit Photographs
- Appendix D – Laboratory Testing
- Appendix E – Waste Classification Assessment Results
- Appendix F – Geotechnical Risk Register

DRAFT



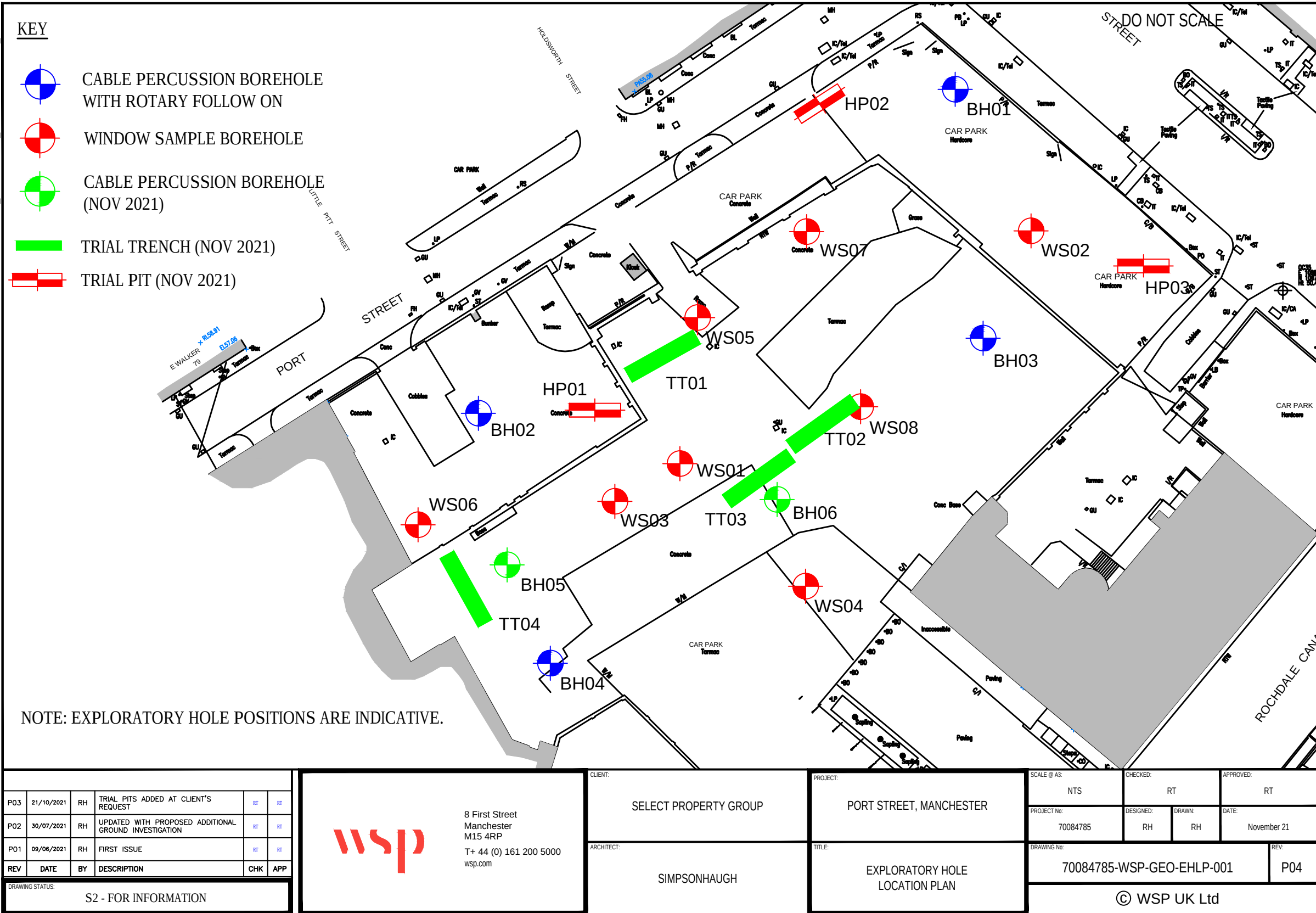
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Appendix A – Exploratory Hole Location Plan

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Appendix B – Exploratory Hole Logs

DRAFT

BOREHOLE RECORD - Cable Percussion

Project **PORT STREET, MANCHESTER ADDITIONAL GI** Engineer **WSP UK LIMITED**

Borehole **BH05**
Project No **PN214335**

Client **MANCHESTER (PORT STREET) LIMITED**

Sampling			Properties			Strata		Scale 1:50						
Depth	Sample Type	Depth Cased & (to Water)	Strength kPa	w %	SPT N	Description	Depth	Legend						
0.00- 0.10	B					MADE GROUND: Grey concrete.	G.L.							
0.10- 0.40	B						0.10							
0.20	D					MADE GROUND: Brown sandy silty angular fine to coarse gravel of sandstone, clinker and brick fragments.	0.40							
0.40- 0.70	B						0.70							
0.50	D					MADE GROUND: Dark greyish black sandy silty angular fine to coarse gravel of clinker, brick fragments and concrete. Occasional wood fragments. Strong hydrocarbon odour.	1.30							
0.50	ES					Between 0.40-0.70m, occasional pockets of slightly gravelly sandy silt.								
0.70- 1.20	B					MADE GROUND: Very soft brown occasionally mottled grey clay.	2.20							
1.00	D					MADE GROUND: Very soft dark grey slightly sandy slightly gravelly silt. Gravel is angular fine to coarse of clinker, ceramic, brick fragments and glass shards. Strong hydrocarbon odour.								
1.00	ES													
1.20- 2.00	B	1.20 (DRY)			S1									
1.20- 1.65	D													
1.50	D													
1.50	ES													
2.00- 2.45	D	1.70 (DRY)			S15									
2.50- 3.00	B													
2.50	D													
2.50	ES													
3.00- 3.45	UT36	2.70 (DRY)												
3.50- 4.50	B													
3.50	D													
4.00- 4.45	D	2.70 (DRY)			S20									
4.50- 4.95	UT37	2.70 (DRY)												
5.00	D						5.00							
						End of Borehole								
Boring						Progress				Groundwater				
Depth	Hole Dia	Technique	Crew	Depth of Hole	Depth Cased	Depth to Water	Date	Time	Depth Struck	Depth Cased	Rose to	in Mins	Depth Sealed	Remarks on Groundwater
1.20	0.40	Inspection Pit	KR/SR	G.L.			11/11/21	08:00						None encountered.
5.00	0.15	Cable Percussion	KR/SR	5.00	2.70	DRY	11/11/21	16:00						
Remarks  Inspection pit hand excavated to 1.20m depth and no services were found. ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. Backfill details from base of hole: bentonite seal up to 0.20m, concrete up to ground level.														
Symbols and abbreviations are explained on the accompanying key sheet.												Logged by JP		
All dimensions are in metres.												Figure 1 of 1 10/12/2021		
														

BOREHOLE RECORD - Cable Percussion

Project **PORT STREET, MANCHESTER ADDITIONAL GI** Engineer **WSP UK LIMITED**

Borehole **BH06**
Project No **PN214335**

Client **MANCHESTER (PORT STREET) LIMITED**

Sampling			Properties			Strata		Scale 1:50						
Depth	Sample Type	Depth Cased & (to Water)	Strength kPa	w %	SPT N	Description	Depth	Legend						
0.20- 0.50 0.35- 0.35 0.40 0.40 0.50- 1.20 0.60 0.60	B HV D ES B D ES	1.70 (DRY)	Av=55		S0/450	MADEGROUND: Grey concrete.	G.L.							
1.20- 2.00 1.20- 1.65 1.50 1.50	B D D ES					MADE GROUND: Firm orangish brown slightly sandy slightly gravelly clay. Gravel is subrounded fine to coarse of sandstone, siltstone and brick fragments.	0.20 0.50							
2.00- 2.45						MADE GROUND: Firm slightly sandy gravelly clay with a medium cobble content of bricks. Gravel is angular fine to coarse of sandstone, clinker and brick fragments. Between 0.50-1.20m, occasional pockets of sand and clayey fine to coarse gravel.	1.20							
2.50- 3.00 2.50 2.50	B D ES					MADE GROUND: Very soft dark grey slightly sandy silt with some rootlets and plant matter. Strong hydrocarbon odour. Between 1.50-2.20m, slightly gravelly, angular fine to coarse gravel of sandstone, clinker and brick fragments. Occasional lumps of very soft, brown clay.	2.20							
3.00- 3.45	UT39					Stiff brown slightly sandy slightly gravelly CLAY. Gravel is subrounded to subangular fine to medium of sandstone, mudstone and quartzite.	5.00							
3.50- 4.50 3.50	B D					S18				End of Borehole				
4.00- 4.45	D													
4.50- 4.95	UT													
5.00	D													
Boring					Progress				Groundwater					
Depth	Hole Dia	Technique	Crew	Depth of Hole	Depth Cased	Depth to Water	Date	Time	Depth Struck	Depth Cased	Rose to	in Mins	Depth Sealed	Remarks on Groundwater
1.20 5.00	0.40 0.15	Inspection Pit Cable Percussion	KR/SR KR/SR	G.L. 5.00	1.70	DRY	12/11/21 12/11/21	08:00 18:00						None encountered.
Remarks Inspection pit hand excavated to 1.20m depth and no services were found. ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. Backfill details from base of hole: bentonite seal up to 0.20m, concrete up to ground level.														
Symbols and abbreviations are explained on the accompanying key sheet.														
All dimensions are in metres.														
Logged in accordance with BS5930:2015 + A1:2020														
Logged by JP Figure 1 of 1 10/12/2021														

TRIAL PIT RECORD

Trial Pit

Project PORT STREET, MANCHESTER ADDITIONAL GI Engineer

WSP UK LIMITED

Trial Pit
Project No

HP01
PN214335

Client MANCHESTER (PORT STREET) LIMITED

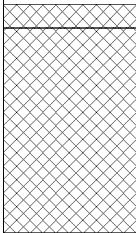
Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.20 - 0.70	B			MADE GROUND: Grey concrete.	G.L.		
0.40	ES			MADE GROUND: Reddish brown mottled brown very sandy angular fine to coarse gravel of brick fragments, concrete, clinker and ceramic.	0.20		
0.70 - 1.20	B			MADE GROUND: Dark grey sandy angular fine to coarse gravel of clinker, coal and brick fragments.	0.70		
0.80	ES						
1.20 - 1.40	B			MADE GROUND: Light grey gravelly clayey fine to coarse sand. Gravel is angular fine to coarse of brick fragments, clinker and coal.	1.20		
1.30	ES						
1.60 - 1.90	B			Below 1.40m, grey.	1.60		
1.80	ES				1.90		
2.00 - 2.30	B			MADE GROUND: Soft grey slightly sandy gravelly clay with a low cobble content. Gravel is angular fine to coarse of sandstone, brick fragments, clinker, slate and coal.	2.30		
2.20	ES						
				Firm to stiff brown mottled bluish grey slightly sandy slightly gravelly CLAY. Gravel is subangular fine to medium of sandstone.			
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	1.00	Depth Observed	Depth of Pit	Details
Date	16/11/2021	Length (C)	3.50	1.60		Slight seepage.
Shoring	None.	Date Backfilled	16/11/2021			
Stability	Stable during excavation.					

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.	Logged by	JP
Symbols and abbreviations are explained on the accompanying key sheet.		Figure	1 of 1
All dimensions are in metres.	Logged in accordance with BS5930:2015 + A1:2020		10/12/2021

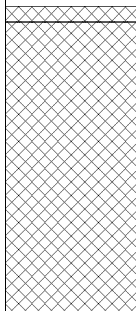
Trial Pit

HP02
PN214335

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.15- 1.50 0.20	B ES			MADE GROUND: Grey angular fine to coarse gravel of limestone. MADE GROUND: Reddish brown brick wall with a matrix of brown very gravelly coarse sand. Gravel is angular fine to coarse of brick fragments, concrete and slate. Between 0.15-1.50m, brick walls run down western and eastern edges of the pit wall.	G.L. 0.15 1.50		
				End of Excavation			

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.	Logged by	JP
Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.	Logged in accordance with BS5930:2015 + A1:2020	Figure 	1 of 1 10/12/2021

Client **MANCHESTER (PORT STREET) LIMITED**

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.00- 0.10 0.05	B ES			MADE GROUND: Brownish grey sandy subangular to subrounded fine to coarse gravel of sandstone and brick fragments.	G.L. 0.10		
1.00- 2.00 1.00	B ES			MADE GROUND: Reddish brown and brown gravelly very sandy cobble of brick. Gravel is angular fine to medium of brick fragments, concrete and slate. With many fragments of textile.			
2.00	ES			End of Excavation	2.00		
Excavation				Groundwater			
Plant	JCB 3CX	Width (B)	1.50	Depth Observed	Depth of Pit	Details	
Date	15/11/2021	Length (C)	3.00			None encountered.	
Shoring	None.	Date Backfilled	15/11/2021				
Stability	Stable during excavation.						
Remarks				Logged by			
ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.				JP			
Symbols and abbreviations are explained on the accompanying key sheet.				Figure			
All dimensions are in metres.				1 of 1			
Logged in accordance with BS5930:2015 + A1:2020				10/12/2021			
				geotechnics			

TRIAL PIT RECORD

Trial Pit

Project PORT STREET, MANCHESTER ADDITIONAL GI Engineer

WSP UK LIMITED

Trial Pit
Project No

TT01
PN214335

Client MANCHESTER (PORT STREET) LIMITED

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	
				MADE GROUND: Grey concrete.	G.L.		
				MADE GROUND: Layer of brick.	0.20		
0.40- 0.80	B				0.40		
0.50	ES						
0.80- 1.40	B			MADE GROUND: Dark grey mottled brown sandy silty angular fine to coarse gravel of clinker, brick fragments, ceramic, sandstone and concrete. With a medium cobble content. Hydrocarbon odour.	0.80		
1.00	ES			Between 0.40-2.60m, brick wall running along eastern edge of the pit.			
1.40- 1.80	B				1.40		
1.40- 1.80	ES						
1.50	HV			MADE GROUND: Very soft dark brown mottled grey slightly sandy gravelly silt. Gravel is angular fine to coarse of clinker, brick fragments, coal and concrete. Strong hydrocarbon odour.	1.80		
1.80- 2.50	B						
2.00	ES						
			Av=14kPa				
2.50- 2.70	B			MADE GROUND: Very soft dark grey slightly sandy slightly gravelly silt. Gravel is angular fine to coarse of clinker, coal and brick fragments.	2.50		
2.50	ES						
				MADE GROUND: Dark grey mottled black sandy very silty angular fine to coarse gravel of clinker, brick fragments, sandstone and slate. Very strong hydrocarbon odour.	2.70		
				Below 1.80m, occasional 1.00m long pieces of timber.			
				Below 1.80m, water seeping into trial pit has oily sheen.			
				Firm brown slightly sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of sandstone.			
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	1.50	Depth Observed	Depth of Pit	Details
Date	16/11/2021	Length (C)	3.00			
Shoring	None.	Date Backfilled	16/11/2021	0.40		Slow seepage.
Stability	Sides spalling below 0.40m.			0.80		Slow seepage.
				1.80		Slow seepage, oily sheen.

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.	Logged by	JP
Symbols and abbreviations are explained on the accompanying key sheet.		Figure	1 of 1
All dimensions are in metres.	Logged in accordance with BS5930:2015 + A1:2020		10/12/2021

Client **MANCHESTER (PORT STREET) LIMITED**

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.16- 0.60	B	Av=9kPa		MADE GROUND: Grey concrete.	G.L.		
0.30	ES			MADE GROUND: Dark grey mottled brown sandy slightly silty angular fine to coarse gravel of clinker, coal and brick fragments.	0.16		
0.40- 0.60	B				0.60		
0.40- 0.60	ES						
0.60- 1.50	B						
1.00	ES			Between 0.40-0.60m, in the eastern side of the pit, soft orangish brown mottled grey slightly sandy slightly gravelly clay.			
1.50- 2.20	B			At 0.45m, disused ceramic pipe, 150mm diameter running north south 0.60m in from the eastern edge.			
2.00	ES			MADE GROUND: Very soft dark grey slightly sandy gravelly silt with a medium cobble content. Gravel is angular fine to coarse of brick fragments, clinker, coal, slate and ceramic. Strong hydrocarbon odour.	2.20		
2.00	HV						
2.20- 2.50	B						
2.50	ES	At 0.60m, brick wall running along eastern edge of the pit. Unable to locate the base of the wall due to ingress of water up to 1.40m depth.	2.50				
				Very soft to soft brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse of sandstone.			
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	1.50	Depth Observed	Depth of Pit	Details
Date	16/11/2021	Length (C)	5.00			
Shoring	None.			0.60		Slow seepage.
Stability	Sides spalling below 1.40m.	Date Backfilled	16/11/2021			

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.
---------	--

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015 + A1:2020

Logged by **JP**

Figure 1 of 1
10/12/2021



TRIAL PIT RECORD

Trial Pit

Project PORT STREET, MANCHESTER ADDITIONAL GI Engineer

WSP UK LIMITED

Trial Pit
Project No

TT03
PN214335

Client MANCHESTER (PORT STREET) LIMITED

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.24- 0.50	B			MADE GROUND: Grey concrete.	G.L.		
0.24- 0.50	ES			MADE GROUND: Grey angular coarse gravel of concrete and bricks.	0.10		
0.50- 1.00	B			MADE GROUND: Dark grey sandy very silty angular fine to coarse gravel of brick fragments, concrete and clinker.	0.24		
0.50- 1.00	ES				0.50		
0.90- 2.20	B			MADE GROUND: Very soft dark grey mottled black slightly sandy gravelly silt with a low cobble content. Gravel is angular fine to coarse of clinker, brick fragments, slate and ceramic. Strong hydrocarbon odour.	2.20		
0.90- 2.20	ES			Between 0.50-1.10m, concrete wall that is between 1.05-1.90m from the western edge.			
1.00- 2.20	B			Between 0.90-2.20m, 1.80m across from western edge of the pit, soft brown slightly gravelly clay.			
1.00- 2.20	ES			At 1.60m, disused ceramic pipe.			
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	1.50	Depth Observed	Depth of Pit	Details
Date	15/11/2021	Length (C)	5.00	0.90		Moderate inflow, oily sheen on surface.
Shoring	None.	Date Backfilled	15/11/2021			
Stability	Sides collapsing due to water ingress.					

Remarks  ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.
 Pit terminated at 2.20m due to fast inflow of water from multiple locations.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015 + A1:2020

Logged by JP

Figure 1 of 1
10/12/2021



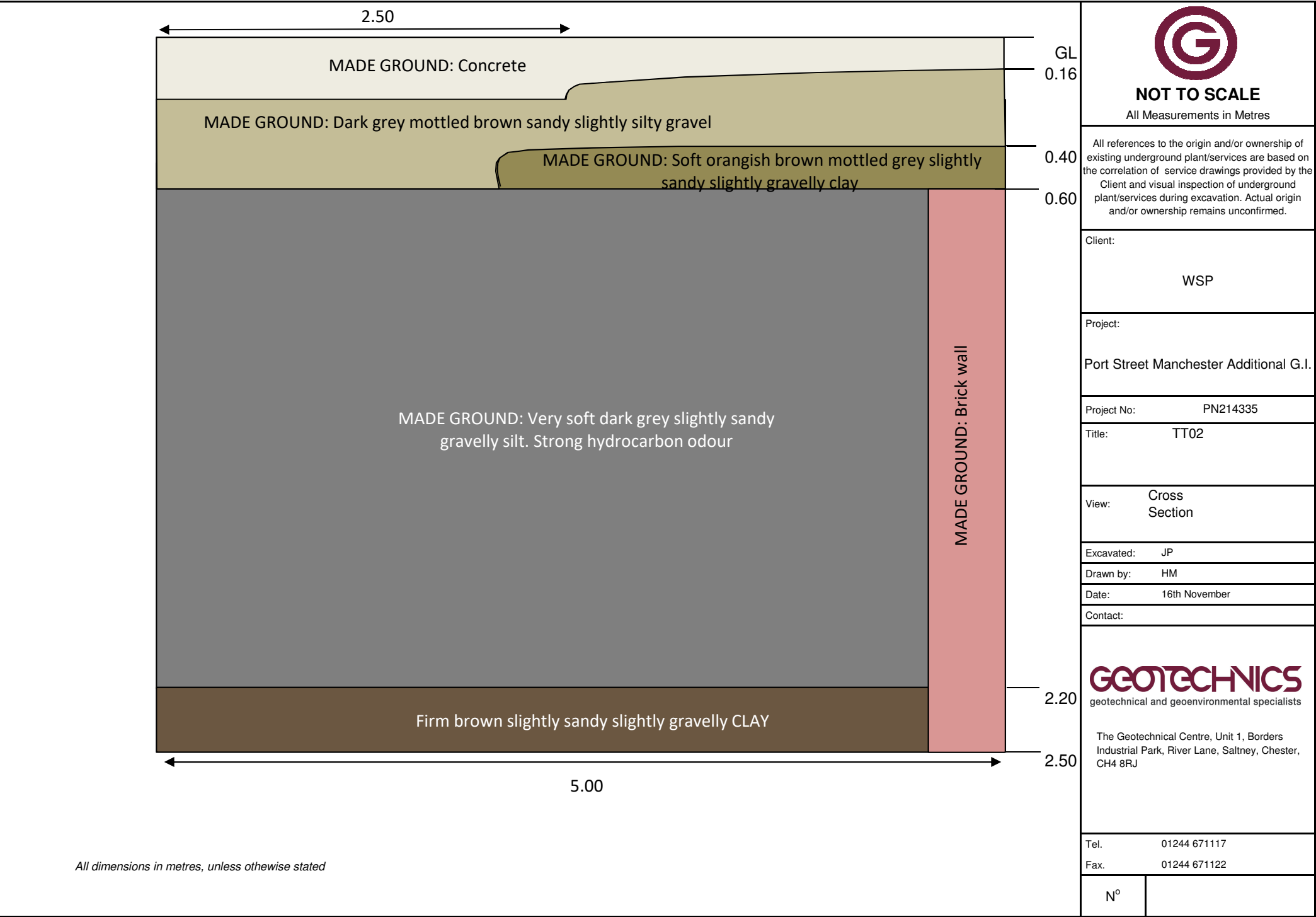
Client MANCHESTER (PORT STREET) LIMITED

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.12- 0.55	B			MADE GROUND: Grey concrete.	G.L.		
0.12- 0.55	ES				0.12		
0.30- 1.30	B			MADE GROUND: Dark grey sandy clayey angular fine to coarse gravel of clinker, brick fragments, sandstone and ceramic. With a medium cobble content. Hydrocarbon odour.			
0.30- 1.20	ES				0.55		
0.40	HV		Av=41kPa	Between 0.30-1.30m, in the northern side of the pit, very soft brown clay.	0.65		
0.55- 0.65	B						
0.55- 0.65	ES						
0.65- 1.50	B						
1.50- 2.40	B			MADE GROUND: Soft greyish brown slightly sandy gravelly clay with a medium cobble content of brick. Gravel is angular fine to coarse of brick fragments, clinker and coal.			
1.50	ES						
1.50	HV		Av=7kPa				
2.00	ES			MADE GROUND: Very soft dark grey slightly sandy slightly gravelly silt with a low to medium cobble content. Gravel is angular coarse of brick and ceramic fragments. Hydrocarbon odour.	2.40		
2.00	HV		Av=10kPa	Between 0.80-2.50m, on southern side of the pit, brick wall.	2.50		
				Firm brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone.			
				End of Excavation			

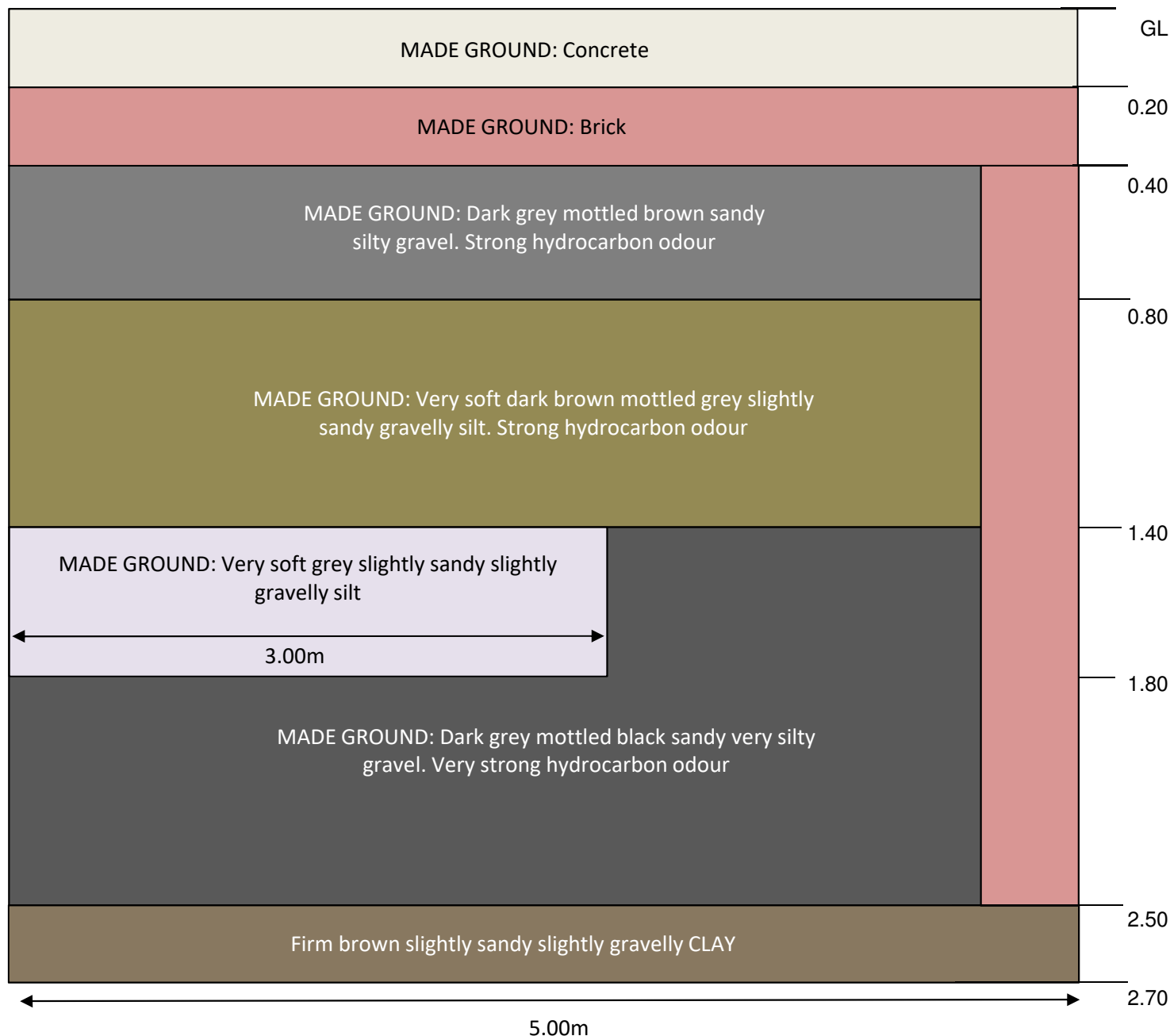
Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	1.50	Depth Observed	Depth of Pit	Details
Date	15/11/2021	Length (C)	3.50			
Shoring	None.	Date Backfilled	15/11/2021			None encountered.
Stability	Sides slightly spalling.					

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar.	Logged by	JP
Symbols and abbreviations are explained on the accompanying key sheet.		Figure	1 of 1
All dimensions are in metres.			10/12/2021





All dimensions in metres, unless otherwise stated



NOT TO SCALE

All Measurements in Metres

All references to the origin and/or ownership of existing underground plant/services are based on the correlation of service drawings provided by the Client and visual inspection of underground plant/services during excavation. Actual origin and/or ownership remains unconfirmed.

Client:

WSP

Project:

Port Street Manchester Additional G.I.

Project No:

PN214335

Title:

TT01

View:

Cross
Section

Excavated:

JP

Drawn by:

HM

Date:

16th November 2021

Contact:

GEOTECHNICS

geotechnical and geoenvironmental specialists

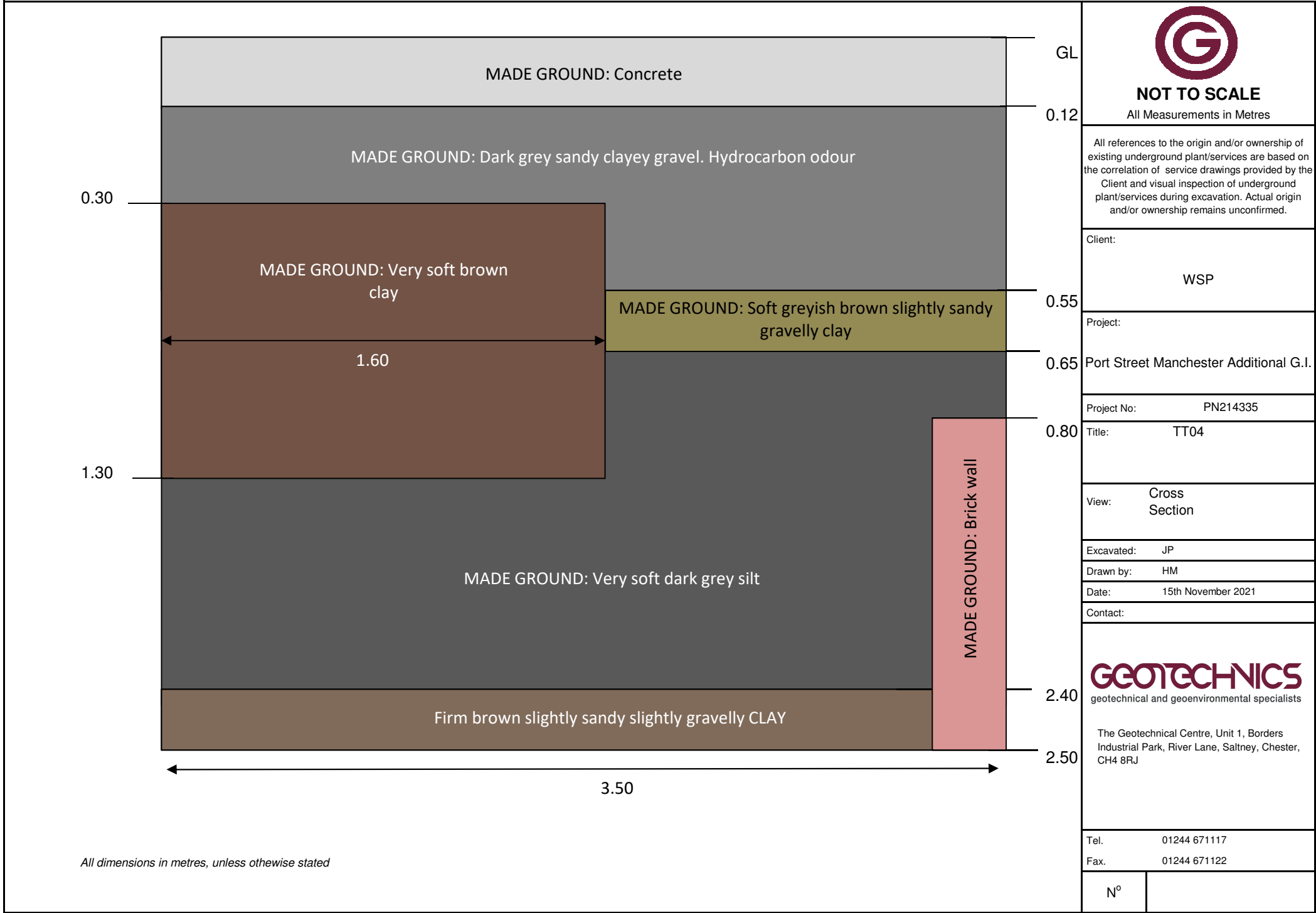
The Geotechnical Centre, Unit 1, Borders Industrial Park, River Lane, Saltney, Chester, CH4 8RJ

Tel. 01244 671117

Fax. 01244 671122

N^o

All dimensions in metres, unless otherwise stated



NOT TO SCALE

All Measurements in Metres

All references to the origin and/or ownership of existing underground plant/services are based on the correlation of service drawings provided by the Client and visual inspection of underground plant/services during excavation. Actual origin and/or ownership remains unconfirmed.

Client:

WSP

Project:

Port Street Manchester Additional G.I.

Project No:

PN214335

Title:

TT04

View:

Cross
Section

Excavated:

JP

Drawn by:

HM

Date:

15th November 2021

Contact:

GEOTECHNICS

geotechnical and geoenvironmental specialists

The Geotechnical Centre, Unit 1, Borders
Industrial Park, River Lane, Saltney, Chester,
CH4 8RJ

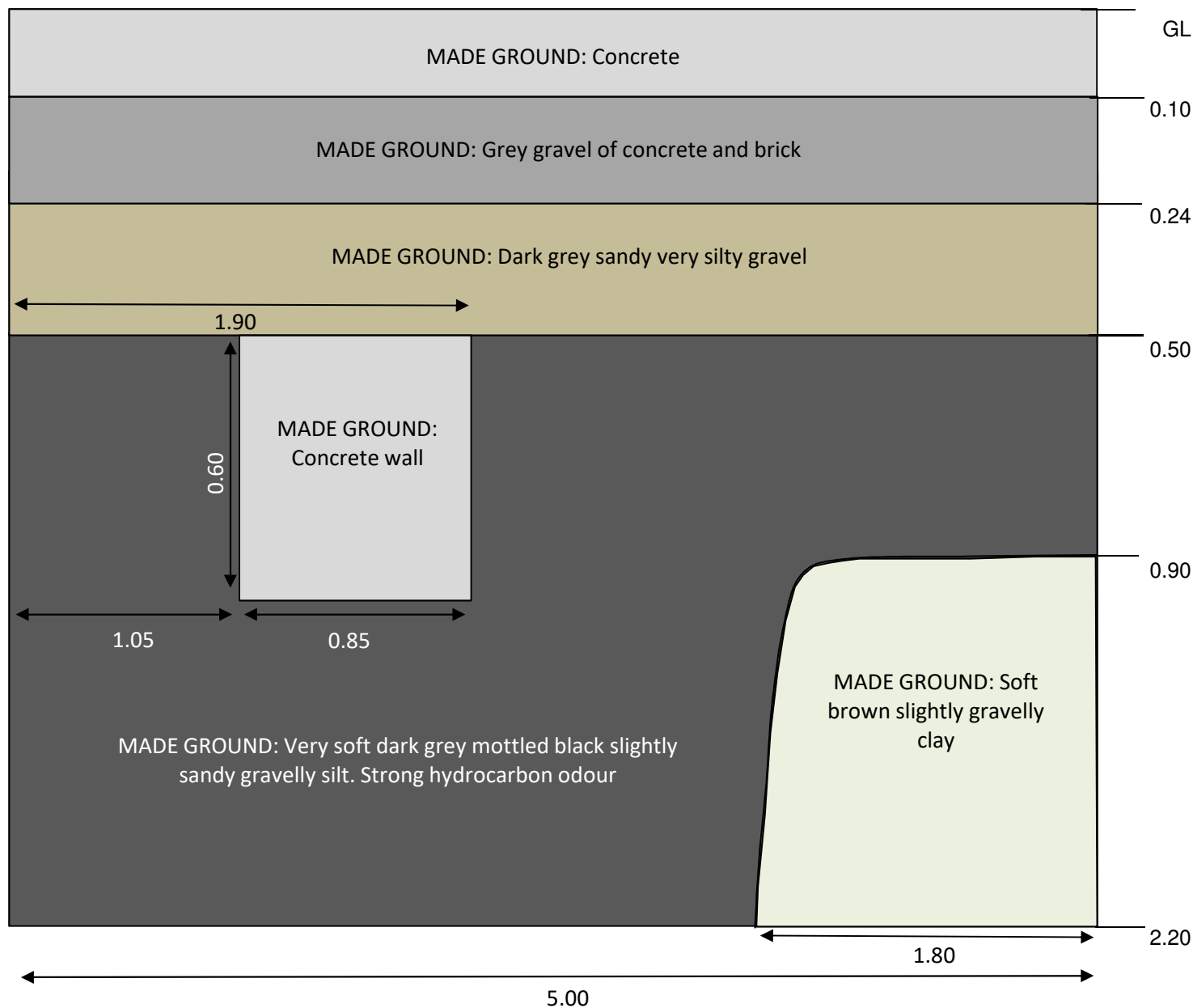
Tel.

01244 671117

Fax.

01244 671122

N^o



NOT TO SCALE

All Measurements in Metres

All references to the origin and/or ownership of existing underground plant/services are based on the correlation of service drawings provided by the Client and visual inspection of underground plant/services during excavation. Actual origin and/or ownership remains unconfirmed.

Client:

WSP

Project:

Port Street Manchester Additional G.I.

Project No:

PN214335

Title:

TT03

View:

Cross
Section

Excavated:

JP

Drawn by:

HM

Date:

15th November 2021

Contact:

GEOTECHNICS

geotechnical and geoenvironmental specialists

The Geotechnical Centre, Unit 1, Borders
Industrial Park, River Lane, Saltney, Chester,
CH4 8RJ

Tel. 01244 671117

Fax. 01244 671122

N^o

All dimensions in metres, unless otherwise stated



ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Appendix C – Trial Pit Photographs

DRAFT

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP01 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP01 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP01 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP01 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP01 (5)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP02 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP02 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP02 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP02 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP02 (5)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP03 (1)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP03 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP03 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



HP03 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT01 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT01 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT01 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT01 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT01 (5)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT02 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT02 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT02 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT02 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT02 (5)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT03 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT03 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT03 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT03 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (I)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (2)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (3)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (4)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (5)

PHOTOGRAPHS

Project Number : PN214335

Project : Port Street Additional



TT04 (6)



ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Appendix D – Laboratory Testing

DRAFT



Certificate of Analysis

Certificate Number 21-24703

Issued: 26-Nov-21

Client Geotechnics LTD
The Geotechnical Centre
Unit 1B Borders Ind. Park
River Lane
Saltney
Chester
CH4 8RJ

Our Reference 21-24703

Client Reference PN214335

Order No ON31776

Contract Title Port Street, Manchester Additional GI

Description 19 Soil samples, 12 Leachate samples.

Date Received 18-Nov-21

Date Started 18-Nov-21

Date Completed 26-Nov-21

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	8.5	10	290	11	35	19
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5	0.8	1.5	0.5	1.0	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	0.2	6.1	0.1	1.2	5.8
Chromium	DETSC 2301#	0.15	mg/kg	9.8	23	43	31	30	9.8
Copper	DETSC 2301#	0.2	mg/kg	36	34	910	46	180	160
Lead	DETSC 2301#	0.3	mg/kg	430	39	1100	47	170	700
Mercury	DETSC 2325#	0.05	mg/kg	0.20	< 0.05	4.8	0.14	0.68	1.4
Nickel	DETSC 2301#	1	mg/kg	11	29	69	37	40	13
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	3.4	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	140	81	2600	83	470	430
Petroleum Hydrocarbons									
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1700	< 10	710	< 10	360	180
PAHs									
PAH Total	DETSC 3301	1.6	mg/kg	180	< 1.6	37	< 1.6	24	22
Phenols									
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
VOCs									
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs									
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	0.8	< 0.1	0.3	< 0.1	0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	0.6	< 0.1	0.2	< 0.1	0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	4.5	0.4	0.7	< 0.1	0.4	0.9
Anthracene	DETSC 3433	0.1	mg/kg	1.1	< 0.1	0.2	< 0.1	0.1	0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	6.3	0.3	3.4	0.2	2.0	1.7
Pyrene	DETSC 3433	0.1	mg/kg	5.7	0.3	2.8	0.2	1.7	1.7
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	2.8	< 0.1	1.0	< 0.1	0.6	1.0
Chrysene	DETSC 3433	0.1	mg/kg	2.6	< 0.1	0.9	< 0.1	0.5	0.7
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	3.5	< 0.1	0.9	< 0.1	0.4	0.9
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	1.0	< 0.1	0.3	< 0.1	0.2	0.4
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	3.0	< 0.1	0.8	< 0.1	0.3	0.8
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	1.2	< 0.1	0.3	< 0.1	0.1	0.2
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	1.4	< 0.1	0.4	< 0.1	0.2	0.4
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	17	6.6	5.9	8.0	42	72
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5	0.8	0.3	0.2	1.6	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.2	0.4	0.3	3.2	4.5
Chromium	DETSC 2301#	0.15	mg/kg	22	15	10	9.1	170	26
Copper	DETSC 2301#	0.2	mg/kg	140	20	29	24	620	380
Lead	DETSC 2301#	0.3	mg/kg	150	78	74	250	2000	670
Mercury	DETSC 2325#	0.05	mg/kg	0.35	0.11	0.13	0.53	7.2	2.2
Nickel	DETSC 2301#	1	mg/kg	31	13	9.0	7.5	76	58
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	2.6	0.9
Zinc	DETSC 2301#	1	mg/kg	170	51	130	77	3200	1100
Petroleum Hydrocarbons									
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	620	93	93	3100	< 10
PAHs									
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	5.6	7.0	< 1.6	< 1.6	< 1.6
Phenols									
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.13	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.41	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.10	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
VOCs									
Vinyl Chloride	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
1,2-dichloroethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.15	< 0.01
cis-1,3-dichloropropene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
1,2-dibromoethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	1.1	< 0.01
m+p-Xylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.37	0.01
o-Xylene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETS 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01
2-chlorotoluene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.66	0.02
4-chlorotoluene	DETS 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.50	0.06
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.55	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs									
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	5.8	< 0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.2
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.7	< 0.2
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.6	< 0.2
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.4	< 0.2
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	3.3	< 0.1	< 0.1	< 0.2

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.9	0.2	6.5	< 0.2
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.1	0.3	< 0.1	1.3	< 0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.2
Fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.5	1.5	0.4	6.7	< 0.2
Pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.5	1.5	0.3	6.7	< 0.2
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.7	0.2	3.1	< 0.2
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.6	0.2	3.0	< 0.2
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.8	0.3	4.1	< 0.2
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.3	0.1	1.2	< 0.2
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.7	0.2	2.8	< 0.2
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.3	0.1	1.6	< 0.2
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.4	< 0.2
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.4	0.2	1.7	< 0.2
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	8.5	17	29	26	450
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.7	1.0	1.6	2.8	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.7	1.0	0.8	4.5
Chromium	DETSC 2301#	0.15	mg/kg	27	57	24	33	47
Copper	DETSC 2301#	0.2	mg/kg	75	87	180	140	1000
Lead	DETSC 2301#	0.3	mg/kg	110	150	230	330	1300
Mercury	DETSC 2325#	0.05	mg/kg	0.32	0.59	1.3	0.38	3.9
Nickel	DETSC 2301#	1	mg/kg	29	35	30	37	72
Selenium	DETSC 2301#	0.5	mg/kg	0.5	< 0.5	0.6	< 0.5	3.8
Zinc	DETSC 2301#	1	mg/kg	120	180	200	210	2400
Petroleum Hydrocarbons								
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10	< 10	990	3700
PAHs								
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	160	82
Phenols								
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
VOCs								
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs								
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	0.2
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	0.2
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1	2.6	0.7
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.8	0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	0.1	0.5	0.2	5.1	2.6
Pyrene	DETSC 3433	0.1	mg/kg	0.1	0.5	0.1	5.0	2.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1	2.4	0.9
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	< 0.1	2.1	0.9
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.4	< 0.1	3.5	1.1
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.9	0.3
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	< 0.1	2.7	0.9
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.4	0.4
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.5	0.4
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH05 0.50

Sample Numbers 1936536 1936554 1936555

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	5.9
DETSC 2003# Loss On Ignition	%	5.4
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	270.0
DETSC 3301 PAHs	mg/kg	71.0
DETSC 2008# pH	pH Units	8.1
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.9	1.4	0.004	0.015
DETSC 2306 Barium as Ba	54	43	0.11	0.45
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	0.79	< 0.40	< 0.004	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	30	9.5	0.06	0.13
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	0.26	0.39	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	1.8	1.6	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.41	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	3.1	< 1.3	0.006	< 0.01
DETSC 2055 Chloride as Cl	5400	980	< 20	< 100
DETSC 2055* Fluoride as F	390	120	0.78	1.62
DETSC 2055 Sulphate as SO4	76000	12000	152	218.9
DETSC 2009* Total Dissolved Solids	190000	71000	380	894
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	2500	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.8	6.9
DETSC 2009 Conductivity uS/cm	272.0	102.0
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.111

Stage 1

Volume of Leachant L2*	0.192
Volume of Eluate VE1*	0.171

Stage 2

Volume of Leachant L8*	0.885
Volume of Eluate VE2*	0.834

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH05 0.50

Sample Numbers 1936536 1936554 1936555

Date Analysed 25/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	5.9	3	5	6
DETSC 2003# Loss On Ignition	%	5.4	n/a	n/a	10

V.2.06

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH06 0.60

Sample Numbers 1936540 1936556 1936557

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	2.1
DETSC 2003# Loss On Ignition	%	5.1
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.0
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.1	0.65	0.002	< 0.01
DETSC 2306 Barium as Ba	33	35	0.07	0.35
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	1.1	0.69	< 0.004	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	0.12	0.16	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	0.43	0.32	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.31	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	1.5	< 1.3	0.003	< 0.01
DETSC 2055 Chloride as Cl	1400	800	< 20	< 100
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1
DETSC 2055 Sulphate as SO4	2600	1700	< 20	< 100
DETSC 2009* Total Dissolved Solids	41000	45000	82	443.9
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	6.9
DETSC 2009 Conductivity uS/cm	59.1	63.7
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.110

Stage 1

Volume of Leachant L2*	0.19
Volume of Eluate VE1*	0.169

Stage 2

Volume of Leachant L8*	0.88
Volume of Eluate VE2*	0.829

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions.
Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH06 0.60

Sample Numbers 1936540 1936556 1936557

Date Analysed 25/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.1	3	5	6
DETSC 2003# Loss On Ignition	%	5.1	n/a	n/a	10

V.2.06

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id HP02 0.20

Sample Numbers 1936544 1936558 1936559

Date Analysed 26/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	0.8
DETSC 2003# Loss On Ignition	%	1.9
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	620.0
DETSC 3301 PAHs	mg/kg	5.6
DETSC 2008# pH	pH Units	9.5
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	3.4	0.9	0.007	0.013
DETSC 2306 Barium as Ba	11	8	0.02	< 0.1
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.78	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	3	1.4	0.006	< 0.02
DETSC 2306 Mercury as Hg	0.032	0.01	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	4.8	2	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	2.4	0.63	< 0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	3.8	1.8	0.008	0.021
DETSC 2055 Chloride as Cl	2000	710	< 20	< 100
DETSC 2055* Fluoride as F	260	< 100	0.52	0.45
DETSC 2055 Sulphate as SO4	9600	2700	< 20	< 100
DETSC 2009* Total Dissolved Solids	60000	43000	120	459.4
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	7.0
DETSC 2009 Conductivity uS/cm	86.1	61.6
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.130
Mass of dry Sample Kg*	0.118

Stage 1

Volume of Leachant L2*	0.225
Volume of Eluate VE1*	0.205

Stage 2

Volume of Leachant L8*	0.948
Volume of Eluate VE2*	0.897

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id HP02 0.20

Sample Numbers 1936544 1936558 1936559

Date Analysed 26/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.8	3	5	6
DETSC 2003# Loss On Ignition	%	1.9	n/a	n/a	10

V.2.06

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT01 2.50

Sample Numbers 1936549 1936560 1936561

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	2.0
DETSC 2003# Loss On Ignition	%	5.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.3
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	6.6	0.75	0.013	0.017
DETSC 2306 Barium as Ba	8.2	9.1	< 0.02	< 0.1
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	3.2	0.79	0.006	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	1.4	0.42	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	1.1	0.48	< 0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	10	2.9	0.02	0.04
DETSC 2055 Chloride as Cl	1600	2000	< 20	< 100
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1
DETSC 2055 Sulphate as SO4	2600	3400	< 20	< 100
DETSC 2009* Total Dissolved Solids	38000	37000	76	371.6
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.8	6.9
DETSC 2009 Conductivity uS/cm	54.6	53.1
* Temperature*	15.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.114

Stage 1

Volume of Leachant L2*	0.203
Volume of Eluate VE1*	0.182

Stage 2

Volume of Leachant L8*	0.914
Volume of Eluate VE2*	0.884

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions.
Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT01 2.50

Sample Numbers 1936549 1936560 1936561

Date Analysed 25/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.0	3	5	6
DETSC 2003# Loss On Ignition	%	5.0	n/a	n/a	10

V.2.06

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT02 2.00

Sample Numbers 1936551 1936562 1936563

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	31.0
DETSC 2003# Loss On Ignition	%	41.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	7.7
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	10	5.1	0.02	0.058
DETSC 2306 Barium as Ba	20	15	0.04	0.16
DETSC 2306 Cadmium as Cd	< 0.030	0.078	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.44	0.94	< 0.02	< 0.1
DETSC 2306 Copper as Cu	11	13	0.022	0.127
DETSC 2306 Mercury as Hg	0.02	0.028	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	13	7.2	0.03	< 0.1
DETSC 2306 Nickel as Ni	0.62	1.1	< 0.02	< 0.1
DETSC 2306 Lead as Pb	11	12	0.02	0.119
DETSC 2306 Antimony as Sb	5.3	3.8	0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	0.68	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	5.4	12	0.011	0.11
DETSC 2055 Chloride as Cl	6000	2100	< 20	< 100
DETSC 2055* Fluoride as F	390	190	0.78	2.2
DETSC 2055 Sulphate as SO4	3400	2900	< 20	< 100
DETSC 2009* Total Dissolved Solids	75000	35000	150	409.7
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	3300	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.7	8.7
DETSC 2009 Conductivity uS/cm	107.0	50.3
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.107

Stage 1

Volume of Leachant L2*	0.18
Volume of Eluate VE1*	0.159

Stage 2

Volume of Leachant L8*	0.852
Volume of Eluate VE2*	0.802

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT02 2.00

Sample Numbers 1936551 1936562 1936563

Date Analysed 25/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	31.0	3	5	6
DETSC 2003# Loss On Ignition	%	41.0	n/a	n/a	10

V.2.06

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT04 1.50

Sample Numbers 1936553 1936564 1936565

Date Analysed 26/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	15.0
DETSC 2003# Loss On Ignition	%	21.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	3700.0
DETSC 3301 PAHs	mg/kg	82.0
DETSC 2008# pH	pH Units	6.8
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	150	98	0.3	1.04
DETSC 2306 Barium as Ba	14	11	0.03	0.11
DETSC 2306 Cadmium as Cd	0.033	0.031	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	1	0.32	< 0.02	< 0.1
DETSC 2306 Copper as Cu	28	39	0.056	0.377
DETSC 2306 Mercury as Hg	0.025	0.014	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	17	9.6	0.03	0.1
DETSC 2306 Nickel as Ni	1.4	2.7	< 0.02	< 0.1
DETSC 2306 Lead as Pb	23	13	0.05	0.142
DETSC 2306 Antimony as Sb	3.2	5.8	< 0.01	0.055
DETSC 2306 Selenium as Se	0.69	0.4	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	15	96	0.03	0.866
DETSC 2055 Chloride as Cl	8800	4400	< 20	< 100
DETSC 2055* Fluoride as F	300	330	0.6	3.27
DETSC 2055 Sulphate as SO4	2600	4600	< 20	< 100
DETSC 2009* Total Dissolved Solids	90000	53000	180	572.9
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	5300	5200	10.6	52.1

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	8.1
DETSC 2009 Conductivity uS/cm	128.0	76.3
* Temperature*	15.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.087

Stage 1

Volume of Leachant L2*	0.121
Volume of Eluate VE1*	0.101

Stage 2

Volume of Leachant L8*	0.697
Volume of Eluate VE2*	0.647

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT04 1.50

Sample Numbers 1936553 1936564 1936565

Date Analysed 26/11/2021

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	15.0	3	5	6
DETSC 2003# Loss On Ignition	%	21.0	n/a	n/a	10

V.2.06

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

Summary of Asbestos Analysis

Soil Samples

Our Ref 21-24703

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1936537	BH05 1.00	SOIL	NAD	none	Darryl Fletcher
1936538	BH05 1.50	SOIL	NAD	none	Darryl Fletcher
1936539	BH06 0.40	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936541	BH06 1.50	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936542	HP01 0.40	SOIL	NAD	none	Darryl Fletcher
1936543	HP01 1.80	SOIL	NAD	none	Darryl Fletcher
1936544	HP02 0.20	SOIL	NAD	none	Darryl Fletcher
1936545	HP03 0.05	SOIL	NAD	none	Darryl Fletcher
1936546	HP03 2.00	SOIL	NAD	none	Darryl Fletcher
1936547	TT01 0.50	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936548	TT01 1.40-1.80	SOIL	NAD	none	Darryl Fletcher
1936549	TT01 2.50	SOIL	NAD	none	Darryl Fletcher
1936550	TT02 0.40-0.60	SOIL	NAD	none	Darryl Fletcher
1936551	TT02 2.00	SOIL	NAD	none	Darryl Fletcher
1936552	TT04 0.12-0.55	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936553	TT04 1.50	SOIL	NAD	none	Darryl Fletcher

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 21-24703
 Client Ref PN214335
 Contract Port Street, Manchester Additional GI

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1936535	BH05 0.20 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936536	BH05 0.50 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936537	BH05 1.00 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936538	BH05 1.50 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936539	BH06 0.40 SOIL	11/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936540	BH06 0.60 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936541	BH06 1.50 SOIL	12/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936542	HP01 0.40 SOIL	16/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936543	HP01 1.80 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936544	HP02 0.20 SOIL	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936545	HP03 0.05 SOIL	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936546	HP03 2.00 SOIL	15/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936547	TT01 0.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936548	TT01 1.40-1.80 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936549	TT01 2.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936550	TT02 0.40-0.60 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936551	TT02 2.00 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936552	TT04 0.12-0.55 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936553	TT04 1.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936554	BH05 0.50 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936555	BH05 0.50 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936556	BH06 0.60 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936557	BH06 0.60 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936558	HP02 0.20 LEACHATE	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936559	HP02 0.20 LEACHATE	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936560	TT01 2.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936561	TT01 2.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936562	TT02 2.00 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936563	TT02 2.00 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936564	TT04 1.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936565	TT04 1.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Information in Support of the Analytical Results

Our Ref 21-24703
Client Ref PN214335
Contract Port Street, Manchester Additional GI

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report



Certificate of Analysis

Certificate Number 21-24703-1

Issued: 30-Nov-21

Client Geotechnics LTD
The Geotechnical Centre
Unit 1B Borders Ind. Park
River Lane
Saltney
Chester
CH4 8RJ

Our Reference 21-24703-1

Client Reference PN214335

Order No ON31776

Contract Title Port Street, Manchester Additional GI

Description 19 Soil samples, 12 Leachate samples.

Date Received 18-Nov-21

Date Started 18-Nov-21

Date Completed 30-Nov-21

Test Procedures Identified by prefix DETSn (details on request).

Notes This report supersedes 21-24703, extra testing added

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0.001	%				< 0.001	0.001	
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	8.5	10	290	11	35	19
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5	0.8	1.5	0.5	1.0	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	0.2	6.1	0.1	1.2	5.8
Chromium	DETSC 2301#	0.15	mg/kg	9.8	23	43	31	30	9.8
Copper	DETSC 2301#	0.2	mg/kg	36	34	910	46	180	160
Lead	DETSC 2301#	0.3	mg/kg	430	39	1100	47	170	700
Mercury	DETSC 2325#	0.05	mg/kg	0.20	< 0.05	4.8	0.14	0.68	1.4
Nickel	DETSC 2301#	1	mg/kg	11	29	69	37	40	13
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	3.4	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	140	81	2600	83	470	430
Petroleum Hydrocarbons									
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1700	< 10	710	< 10	360	180
PAHs									
PAH Total	DETSC 3301	1.6	mg/kg	180	< 1.6	37	< 1.6	24	22
Phenols									
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
VOCs									
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs									
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	0.8	< 0.1	0.3	< 0.1	0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	0.6	< 0.1	0.2	< 0.1	0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936535	1936537	1936538	1936539	1936541	1936542
Sample ID	BH05	BH05	BH05	BH06	BH06	HP01
Depth	0.20	1.00	1.50	0.40	1.50	0.40
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/11/2021	11/11/2021	11/11/2021	11/11/2021	12/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	4.5	0.4	0.7	< 0.1	0.4	0.9
Anthracene	DETSC 3433	0.1	mg/kg	1.1	< 0.1	0.2	< 0.1	0.1	0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	6.3	0.3	3.4	0.2	2.0	1.7
Pyrene	DETSC 3433	0.1	mg/kg	5.7	0.3	2.8	0.2	1.7	1.7
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	2.8	< 0.1	1.0	< 0.1	0.6	1.0
Chrysene	DETSC 3433	0.1	mg/kg	2.6	< 0.1	0.9	< 0.1	0.5	0.7
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	3.5	< 0.1	0.9	< 0.1	0.4	0.9
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	1.0	< 0.1	0.3	< 0.1	0.2	0.4
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	3.0	< 0.1	0.8	< 0.1	0.3	0.8
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	1.2	< 0.1	0.3	< 0.1	0.1	0.2
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	1.4	< 0.1	0.4	< 0.1	0.2	0.4
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0.001	%					0.001	
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	17	6.6	5.9	8.0	42	72
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5	0.8	0.3	0.2	1.6	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.2	0.4	0.3	3.2	4.5
Chromium	DETSC 2301#	0.15	mg/kg	22	15	10	9.1	170	26
Copper	DETSC 2301#	0.2	mg/kg	140	20	29	24	620	380
Lead	DETSC 2301#	0.3	mg/kg	150	78	74	250	2000	670
Mercury	DETSC 2325#	0.05	mg/kg	0.35	0.11	0.13	0.53	7.2	2.2
Nickel	DETSC 2301#	1	mg/kg	31	13	9.0	7.5	76	58
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	2.6	0.9
Zinc	DETSC 2301#	1	mg/kg	170	51	130	77	3200	1100
Petroleum Hydrocarbons									
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	620	93	93	3100	< 10
PAHs									
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	5.6	7.0	< 1.6	< 1.6	< 1.6
Phenols									
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.13	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.41	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.10	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
VOCs									
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.15	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	1.1	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.37	0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.66	0.02
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.50	0.06
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.55	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs									
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	5.8	< 0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.2
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.7	< 0.2
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.6	< 0.2
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1.4	< 0.2
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	3.3	< 0.1	< 0.1	< 0.2
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Summary of Chemical Analysis Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936543	1936544	1936545	1936546	1936547	1936548
Sample ID	HP01	HP02	HP03	HP03	TT01	TT01
Depth	1.80	0.20	0.05	2.00	0.50	1.40-1.80
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	15/11/2021	15/11/2021	15/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.9	0.2	6.5	< 0.2
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.1	0.3	< 0.1	1.3	< 0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.2
Fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.5	1.5	0.4	6.7	< 0.2
Pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.5	1.5	0.3	6.7	< 0.2
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.7	0.2	3.1	< 0.2
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.6	0.2	3.0	< 0.2
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.8	0.3	4.1	< 0.2
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.3	0.1	1.2	< 0.2
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	0.7	0.2	2.8	< 0.2
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.3	0.1	1.6	< 0.2
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.4	< 0.2
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	0.4	0.2	1.7	< 0.2
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Summary of Chemical Analysis Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Asbestos Quantification	DETSC 1102	0.001	%				0.001	
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	8.5	17	29	26	450
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.7	1.0	1.6	2.8	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.7	1.0	0.8	4.5
Chromium	DETSC 2301#	0.15	mg/kg	27	57	24	33	47
Copper	DETSC 2301#	0.2	mg/kg	75	87	180	140	1000
Lead	DETSC 2301#	0.3	mg/kg	110	150	230	330	1300
Mercury	DETSC 2325#	0.05	mg/kg	0.32	0.59	1.3	0.38	3.9
Nickel	DETSC 2301#	1	mg/kg	29	35	30	37	72
Selenium	DETSC 2301#	0.5	mg/kg	0.5	< 0.5	0.6	< 0.5	3.8
Zinc	DETSC 2301#	1	mg/kg	120	180	200	210	2400
Petroleum Hydrocarbons								
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10	< 10	990	3700
PAHs								
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	160	82
Phenols								
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
VOCs								
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs								
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	0.2
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	0.2
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936549	1936550	1936551	1936552	1936553
Sample ID	TT01	TT02	TT02	TT04	TT04
Depth	2.50	0.40-0.60	2.00	0.12-0.55	1.50
Other ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/11/2021	16/11/2021	16/11/2021	16/11/2021	16/11/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1	2.6	0.7
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.8	0.2
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	0.1	0.5	0.2	5.1	2.6
Pyrene	DETSC 3433	0.1	mg/kg	0.1	0.5	0.1	5.0	2.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1	2.4	0.9
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	< 0.1	2.1	0.9
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.4	< 0.1	3.5	1.1
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.9	0.3
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	< 0.1	2.7	0.9
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.4	0.4
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.5	0.4
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH05 0.50

Sample Numbers 1936536 1936554 1936555

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	5.9
DETSC 2003# Loss On Ignition	%	5.4
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	270.0
DETSC 3301 PAHs	mg/kg	71.0
DETSC 2008# pH	pH Units	8.1
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.9	1.4	0.004	0.015
DETSC 2306 Barium as Ba	54	43	0.11	0.45
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	0.79	< 0.40	< 0.004	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	30	9.5	0.06	0.13
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	0.26	0.39	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	1.8	1.6	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.41	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	3.1	< 1.3	0.006	< 0.01
DETSC 2055 Chloride as Cl	5400	980	< 20	< 100
DETSC 2055* Fluoride as F	390	120	0.78	1.62
DETSC 2055 Sulphate as SO4	76000	12000	152	218.9
DETSC 2009* Total Dissolved Solids	190000	71000	380	894
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	2500	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.8	6.9
DETSC 2009 Conductivity uS/cm	272.0	102.0
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.111

Stage 1

Volume of Leachant L2*	0.192
Volume of Eluate VE1*	0.171

Stage 2

Volume of Leachant L8*	0.885
Volume of Eluate VE2*	0.834

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id BH06 0.60

Sample Numbers 1936540 1936556 1936557

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	2.1
DETSC 2003# Loss On Ignition	%	5.1
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.0
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.1	0.65	0.002	< 0.01
DETSC 2306 Barium as Ba	33	35	0.07	0.35
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	1.1	0.69	< 0.004	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	0.12	0.16	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	0.43	0.32	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.31	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	1.5	< 1.3	0.003	< 0.01
DETSC 2055 Chloride as Cl	1400	800	< 20	< 100
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1
DETSC 2055 Sulphate as SO4	2600	1700	< 20	< 100
DETSC 2009* Total Dissolved Solids	41000	45000	82	443.9
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	6.9
DETSC 2009 Conductivity uS/cm	59.1	63.7
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.110

Stage 1

Volume of Leachant L2*	0.19
Volume of Eluate VE1*	0.169

Stage 2

Volume of Leachant L8*	0.88
Volume of Eluate VE2*	0.829

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id HP02 0.20

Sample Numbers 1936544 1936558 1936559

Date Analysed 26/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	0.8
DETSC 2003# Loss On Ignition	%	1.9
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	620.0
DETSC 3301 PAHs	mg/kg	5.6
DETSC 2008# pH	pH Units	9.5
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	3.4	0.9	0.007	0.013
DETSC 2306 Barium as Ba	11	8	0.02	< 0.1
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.78	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	3	1.4	0.006	< 0.02
DETSC 2306 Mercury as Hg	0.032	0.01	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	4.8	2	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	2.4	0.63	< 0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	3.8	1.8	0.008	0.021
DETSC 2055 Chloride as Cl	2000	710	< 20	< 100
DETSC 2055* Fluoride as F	260	< 100	0.52	0.45
DETSC 2055 Sulphate as SO4	9600	2700	< 20	< 100
DETSC 2009* Total Dissolved Solids	60000	43000	120	459.4
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	7.0
DETSC 2009 Conductivity uS/cm	86.1	61.6
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.130
Mass of dry Sample Kg*	0.118

Stage 1

Volume of Leachant L2*	0.225
Volume of Eluate VE1*	0.205

Stage 2

Volume of Leachant L8*	0.948
Volume of Eluate VE2*	0.897

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT01 2.50

Sample Numbers 1936549 1936560 1936561

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	2.0
DETSC 2003# Loss On Ignition	%	5.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.3
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	6.6	0.75	0.013	0.017
DETSC 2306 Barium as Ba	8.2	9.1	< 0.02	< 0.1
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1
DETSC 2306 Copper as Cu	3.2	0.79	0.006	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	1.4	0.42	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	1.1	0.48	< 0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	10	2.9	0.02	0.04
DETSC 2055 Chloride as Cl	1600	2000	< 20	< 100
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1
DETSC 2055 Sulphate as SO4	2600	3400	< 20	< 100
DETSC 2009* Total Dissolved Solids	38000	37000	76	371.6
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	< 2000	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.8	6.9
DETSC 2009 Conductivity uS/cm	54.6	53.1
* Temperature*	15.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.114

Stage 1

Volume of Leachant L2*	0.203
Volume of Eluate VE1*	0.182

Stage 2

Volume of Leachant L8*	0.914
Volume of Eluate VE2*	0.884

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT02 2.00

Sample Numbers 1936551 1936562 1936563

Date Analysed 25/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	31.0
DETSC 2003# Loss On Ignition	%	41.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	7.7
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	10	5.1	0.02	0.058
DETSC 2306 Barium as Ba	20	15	0.04	0.16
DETSC 2306 Cadmium as Cd	< 0.030	0.078	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.44	0.94	< 0.02	< 0.1
DETSC 2306 Copper as Cu	11	13	0.022	0.127
DETSC 2306 Mercury as Hg	0.02	0.028	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	13	7.2	0.03	< 0.1
DETSC 2306 Nickel as Ni	0.62	1.1	< 0.02	< 0.1
DETSC 2306 Lead as Pb	11	12	0.02	0.119
DETSC 2306 Antimony as Sb	5.3	3.8	0.01	< 0.05
DETSC 2306 Selenium as Se	< 0.25	0.68	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	5.4	12	0.011	0.11
DETSC 2055 Chloride as Cl	6000	2100	< 20	< 100
DETSC 2055* Fluoride as F	390	190	0.78	2.2
DETSC 2055 Sulphate as SO4	3400	2900	< 20	< 100
DETSC 2009* Total Dissolved Solids	75000	35000	150	409.7
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	3300	< 2000	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.7	8.7
DETSC 2009 Conductivity uS/cm	107.0	50.3
* Temperature*	15.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.107

Stage 1

Volume of Leachant L2*	0.18
Volume of Eluate VE1*	0.159

Stage 2

Volume of Leachant L8*	0.852
Volume of Eluate VE2*	0.802

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT04 1.50

Sample Numbers 1936553 1936564 1936565

Date Analysed 26/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	15.0
DETSC 2003# Loss On Ignition	%	21.0
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	3700.0
DETSC 3301 PAHs	mg/kg	82.0
DETSC 2008# pH	pH Units	6.8
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	150	98	0.3	1.04
DETSC 2306 Barium as Ba	14	11	0.03	0.11
DETSC 2306 Cadmium as Cd	0.033	0.031	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	1	0.32	< 0.02	< 0.1
DETSC 2306 Copper as Cu	28	39	0.056	0.377
DETSC 2306 Mercury as Hg	0.025	0.014	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	17	9.6	0.03	0.1
DETSC 2306 Nickel as Ni	1.4	2.7	< 0.02	< 0.1
DETSC 2306 Lead as Pb	23	13	0.05	0.142
DETSC 2306 Antimony as Sb	3.2	5.8	< 0.01	0.055
DETSC 2306 Selenium as Se	0.69	0.4	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	15	96	0.03	0.866
DETSC 2055 Chloride as Cl	8800	4400	< 20	< 100
DETSC 2055* Fluoride as F	300	330	0.6	3.27
DETSC 2055 Sulphate as SO4	2600	4600	< 20	< 100
DETSC 2009* Total Dissolved Solids	90000	53000	180	572.9
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	5300	5200	10.6	52.1

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.0	8.1
DETSC 2009 Conductivity uS/cm	128.0	76.3
* Temperature*	15.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.087

Stage 1

Volume of Leachant L2*	0.121
Volume of Eluate VE1*	0.101

Stage 2

Volume of Leachant L8*	0.697
Volume of Eluate VE2*	0.647

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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Summary of Asbestos Analysis Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1936537	BH05 1.00	SOIL	NAD	none	Darryl Fletcher
1936538	BH05 1.50	SOIL	NAD	none	Darryl Fletcher
1936539	BH06 0.40	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936541	BH06 1.50	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936542	HP01 0.40	SOIL	NAD	none	Darryl Fletcher
1936543	HP01 1.80	SOIL	NAD	none	Darryl Fletcher
1936544	HP02 0.20	SOIL	NAD	none	Darryl Fletcher
1936545	HP03 0.05	SOIL	NAD	none	Darryl Fletcher
1936546	HP03 2.00	SOIL	NAD	none	Darryl Fletcher
1936547	TT01 0.50	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936548	TT01 1.40-1.80	SOIL	NAD	none	Darryl Fletcher
1936549	TT01 2.50	SOIL	NAD	none	Darryl Fletcher
1936550	TT02 0.40-0.60	SOIL	NAD	none	Darryl Fletcher
1936551	TT02 2.00	SOIL	NAD	none	Darryl Fletcher
1936552	TT04 0.12-0.55	SOIL	Chrysotile	Bundles of Chrysotile fibres	Darryl Fletcher
1936553	TT04 1.50	SOIL	NAD	none	Darryl Fletcher

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 21-24703-1

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936539	1936541	1936547	1936552
Sample ID	BH06	BH06	TT01	TT04
Depth	0.40	1.50	0.50	0.12-0.55
Other ID				
Sample Type				
Sampling Date	11/11/2021	12/11/2021	16/11/2021	16/11/2021
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETS 1102	Mass %	< 0.001	0.001	0.001	0.001
Gravimetric Quantification (a)	DETS 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETS 1102	Mass %	<0.001	0.001	0.001	0.001
Quantification by PCOM (c)	DETS 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETS 1102	Fibres/g	na	na	na	na

Breakdown of Gravimetric Analysis (a)

Mass of Sample		g	959.27	769.25	619.94	621.70
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na	na	na	na
% Chrysotile bundles in sample		Mass %	<0.001	0.001	0.001	0.001

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample		Mass %	na	na	na	na
% Chrysotile fibres in sample		Mass %	na	na	na	na

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 21-24703-1
 Client Ref PN214335
 Contract Port Street, Manchester Additional GI

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1936535	BH05 0.20 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936536	BH05 0.50 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936537	BH05 1.00 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936538	BH05 1.50 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936539	BH06 0.40 SOIL	11/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936540	BH06 0.60 SOIL	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936541	BH06 1.50 SOIL	12/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936542	HP01 0.40 SOIL	16/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936543	HP01 1.80 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936544	HP02 0.20 SOIL	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936545	HP03 0.05 SOIL	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936546	HP03 2.00 SOIL	15/11/21	GJ 250ml, GJ 60ml, PT 1L		
1936547	TT01 0.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936548	TT01 1.40-1.80 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936549	TT01 2.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936550	TT02 0.40-0.60 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936551	TT02 2.00 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936552	TT04 0.12-0.55 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936553	TT04 1.50 SOIL	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936554	BH05 0.50 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936555	BH05 0.50 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936556	BH06 0.60 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936557	BH06 0.60 LEACHATE	11/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936558	HP02 0.20 LEACHATE	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936559	HP02 0.20 LEACHATE	15/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936560	TT01 2.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936561	TT01 2.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936562	TT02 2.00 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936563	TT02 2.00 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936564	TT04 1.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		
1936565	TT04 1.50 LEACHATE	16/11/21	GJ 250ml x2, GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report



DETS

Certificate of Analysis

Certificate Number 21-24758

Issued: 30-Nov-21

Client Geotechnics LTD
The Geotechnical Centre
Unit 1B Borders Ind. Park
River Lane
Saltney
Chester
CH4 8RJ

Our Reference 21-24758

Client Reference PN214335

Order No ON31776

Contract Title Port Street, Manchester Additional GI

Description 3 Soil samples, 4 Leachate samples.

Date Received 19-Nov-21

Date Started 19-Nov-21

Date Completed 30-Nov-21

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890	1936891	1936892
Sample ID	TT03	TT03	TT03
Depth	0.24-0.50	0.50-1.00	0.90-2.20
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%	0.40		
Metals						
Arsenic	DETSC 2301#	0.2	mg/kg	40	97	17
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0	1.3	0.6
Cadmium	DETSC 2301#	0.1	mg/kg	6.5	21	5.3
Chromium	DETSC 2301#	0.15	mg/kg	38	31	27
Copper	DETSC 2301#	0.2	mg/kg	270	470	76
Lead	DETSC 2301#	0.3	mg/kg	610	910	140
Mercury	DETSC 2325#	0.05	mg/kg	0.65	2.1	0.27
Nickel	DETSC 2301#	1	mg/kg	51	38	32
Selenium	DETSC 2301#	0.5	mg/kg	1.1	1.0	0.7
Zinc	DETSC 2301#	1	mg/kg	940	2900	550
Petroleum Hydrocarbons						
EPH (C10-C40)	DETSC 3311#	10	mg/kg	850	6400	< 10
PAHs						
PAH Total	DETSC 3301	1.6	mg/kg	54	260	< 1.6
Phenols						
Phenol	DETSC 3451*	0.01	mg/kg	< 0.01	0.02	< 0.01
4-Chloro-3-methylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-cresol	DETSC 3451*	0.01	mg/kg	< 0.01	0.02	< 0.01
2,6-Dimethylphenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	DETSC 3451*	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890	1936891	1936892
Sample ID	TT03	TT03	TT03
Depth	0.24-0.50	0.50-1.00	0.90-2.20
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890	1936891	1936892
Sample ID	TT03	TT03	TT03
Depth	0.24-0.50	0.50-1.00	0.90-2.20
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890	1936891	1936892
Sample ID	TT03	TT03	TT03
Depth	0.24-0.50	0.50-1.00	0.90-2.20
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
SVOCs						
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	0.5	0.2	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	0.2	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	0.3	0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	3.5	1.2	< 0.1
Anthracene	DETSC 3433	0.1	mg/kg	0.7	0.3	< 0.1

Summary of Chemical Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890	1936891	1936892
Sample ID	TT03	TT03	TT03
Depth	0.24-0.50	0.50-1.00	0.90-2.20
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	4.5	3.3	< 0.1
Pyrene	DETSC 3433	0.1	mg/kg	4.0	3.0	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	1.4	1.4	< 0.1
Chrysene	DETSC 3433	0.1	mg/kg	1.5	1.2	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	1.0	1.1	< 0.1
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	0.6	0.5	< 0.1
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	1.1	1.1	< 0.1
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	0.3	0.4	< 0.1
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	0.5	0.6	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	0.2	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT03 0.24-0.50

Sample Numbers 1936890 1936893 1936894

Date Analysed 30/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETS 2084# Total Organic Carbon	%	11.0
DETS 2003# Loss On Ignition	%	10.0
DETS 3321# BTEX	mg/kg	< 0.04
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETS 3311# TPH (C10 - C40)	mg/kg	850.0
DETS 3301 PAHs	mg/kg	54.0
DETS 2008# pH	pH Units	8.2
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETS 2306 Arsenic as As	9.3	6	0.019	0.064
DETS 2306 Barium as Ba	28	11	0.06	0.13
DETS 2306 Cadmium as Cd	0.064	0.046	< 0.004	< 0.02
DETS 2306 Chromium as Cr	0.29	0.27	< 0.02	< 0.1
DETS 2306 Copper as Cu	6.1	4	0.012	0.043
DETS 2306 Mercury as Hg	0.37	0.066	0.0007	< 0.002
DETS 2306 Molybdenum as Mo	15	2.3	0.03	< 0.1
DETS 2306 Nickel as Ni	1	< 0.50	< 0.02	< 0.1
DETS 2306 Lead as Pb	4.4	3.5	< 0.01	< 0.05
DETS 2306 Antimony as Sb	10	3.5	0.02	< 0.05
DETS 2306 Selenium as Se	0.5	0.4	< 0.006	< 0.03
DETS 2306 Zinc as Zn	5.7	4	0.011	0.042
DETS 2055 Chloride as Cl	5600	1100	< 20	< 100
DETS 2055* Fluoride as F	800	220	1.6	2.99
DETS 2055 Sulphate as SO4	49000	6400	98	121.9
DETS 2009* Total Dissolved Solids	140000	43000	280	561.9
DETS 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETS 2085 Dissolved Organic Carbon	6900	2200	13.8	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETS 2008 pH	7.1	7.5
DETS 2009 Conductivity uS/cm	197.0	61.9
* Temperature*	16.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.098

Stage 1

Volume of Leachant L2*	0.154
Volume of Eluate VE1*	0.133

Stage 2

Volume of Leachant L8*	0.783
Volume of Eluate VE2*	0.732

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Sample Id TT03 0.50-1.00

Sample Numbers 1936891 1936895 1936896

Date Analysed 26/11/2021

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETS 2084# Total Organic Carbon	%	12.0
DETS 2003# Loss On Ignition	%	12.0
DETS 3321# BTEX	mg/kg	< 0.04
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETS 3311# TPH (C10 - C40)	mg/kg	6400.0
DETS 3301 PAHs	mg/kg	260.0
DETS 2008# pH	pH Units	8.1
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETS 2306 Arsenic as As	31	21	0.062	0.221
DETS 2306 Barium as Ba	69	29	0.14	0.33
DETS 2306 Cadmium as Cd	0.051	< 0.030	< 0.004	< 0.02
DETS 2306 Chromium as Cr	0.58	< 0.25	< 0.02	< 0.1
DETS 2306 Copper as Cu	4.6	2.5	0.009	0.027
DETS 2306 Mercury as Hg	0.079	0.019	< 0.0004	< 0.002
DETS 2306 Molybdenum as Mo	88	14	0.18	0.22
DETS 2306 Nickel as Ni	1.6	0.64	< 0.02	< 0.1
DETS 2306 Lead as Pb	2.5	3.5	< 0.01	< 0.05
DETS 2306 Antimony as Sb	17	13	0.03	0.134
DETS 2306 Selenium as Se	0.59	0.36	< 0.006	< 0.03
DETS 2306 Zinc as Zn	5.1	6.9	0.01	0.067
DETS 2055 Chloride as Cl	10000	1200	20	< 100
DETS 2055* Fluoride as F	1300	440	2.6	5.34
DETS 2055 Sulphate as SO4	40000	4500	80	< 100
DETS 2009* Total Dissolved Solids	72000	61000	144	622
DETS 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETS 2085 Dissolved Organic Carbon	8400	3100	16.8	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETS 2008 pH	6.8	7.5
DETS 2009 Conductivity uS/cm	103.0	86.8
* Temperature*	16.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.084

Stage 1

Volume of Leachant L2*	0.112
Volume of Eluate VE1*	0.092

Stage 2

Volume of Leachant L8*	0.672
Volume of Eluate VE2*	0.622

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

Summary of Asbestos Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1936890	TT03 0.24-0.50	SOIL	Chrysotile	Chrysotile present in Visible Cement debris & Bundles	Keith Wilson
1936891	TT03 0.50-1.00	SOIL	NAD	none	Keith Wilson
1936892	TT03 0.90-2.20	SOIL	NAD	none	Keith Wilson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 21-24758

Client Ref PN214335

Contract Title Port Street, Manchester Additional GI

Lab No	1936890
Sample ID	TT03
Depth	0.24-0.50
Other ID	
Sample Type	
Sampling Date	n/s
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.399
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.399
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
Quantification by PCOM (c)	DETSC 1102	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na
Breakdown of Gravimetric Analysis (a)			
Mass of Sample		g	792.31
ACMs present*		type	Cement
Mass of ACM in sample		g	21.08
% ACM by mass		%	2.66
% asbestos in ACM		%	15.00
% asbestos in sample		%	0.399
Breakdown of Detailed Gravimetric Analysis (b)			
% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	na
Breakdown of PCOM Analysis (c)			
% Amphibole fibres in sample		Mass %	na
% Chrysotile fibres in sample		Mass %	na
Breakdown of Potentially Respirable Fibre Analysis (d)			
Amphibole fibres		Fibres/g	na
Chrysotile fibres		Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 21-24758
 Client Ref PN214335
 Contract Port Street, Manchester Additional GI

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1936890	TT03 0.24-0.50 SOIL		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied, ANC (1095 days), Boron (365 days), BTEX (14 days), Mercury (28 days), ICP WS Boron (182 days), Metals ICP (182 days), Metals ICP Prep (182 days), Loss on Ignition (730 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Phenols MS (14 days), SVOC (14 days), EPH/TPH (14 days)	
1936891	TT03 0.50-1.00 SOIL		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied, ANC (1095 days), Boron (365 days), BTEX (14 days), Mercury (28 days), ICP WS Boron (182 days), Metals ICP (182 days), Metals ICP Prep (182 days), Loss on Ignition (730 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Phenols MS (14 days), SVOC (14 days), EPH/TPH (14 days)	
1936892	TT03 0.90-2.20 SOIL		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied, Boron (365 days), Mercury (28 days), ICP WS Boron (182 days), Metals ICP (182 days), Metals ICP Prep (182 days), PAH FID (14 days), Phenols MS (14 days), SVOC (14 days), EPH/TPH (14 days)	
1936893	TT03 0.24-0.50 LEACHATE		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied	
1936894	TT03 0.24-0.50 LEACHATE		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied	
1936895	TT03 0.50-1.00 LEACHATE		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied	
1936896	TT03 0.50-1.00 LEACHATE		GJ 250ml x2, GJ 60ml, PT 1L	Sample date not supplied	

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report



ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Appendix E – Waste Classification Assessment Results

DRAFT



Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



YQC83-J9VQN-V6988

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in **pale yellow**.

Job name

Port Street, Manchester

Description/Comments

Site History: From the earliest maps (1850s), the north eastern part of the site was used for residential housing with private gardens. A 'basin' connected to the local canal system was situated in the western half of the site with the remainder of the site occupied by industrial buildings (sawmills, timber yards) and wharfs. From 1948, the 'basin' no longer appears with a service garage and yard occupying the space with the remainder of the 'basin' having been infilled. A 'Machine Tool Works' was located in the far west of the site during this time. An above ground tank is noted in the centre of the site on the 1954 edition of the map but no longer present in the 1963 edition of the map when much of the site is occupied by garages. By 1992, only a single industrial building labelled as 'works' existed in the north west corner of the site with the residential houses in the northeast. The remainder of the site was open ground/ yard area during this time. Between 1999 and 2021, the remaining buildings were removed and the site's primary use became a split-level open car parking area

Current Site Use: Split level open car parking area

Labs used for analysis: Derwentside Environmental Testing Services (DETS) Limited

Lab certificate numbers: 21-24703; 21-24703-1; 21-24758

This preliminary assessment is based on the available analytical data presented in the DETS lab certificates. Based on the stoichiometric ratios, several metal compounds were altered to more likely compounds based on the available data. It should be noted that any waste accepted into landfill is at the landfill operator's discretion and further testing may be required.

Project

70084785

Site

Port Street, Manchester

Classified by

Name:
Billy Bradnum

Company:
WSP

Date:
11 Jan 2022 15:20 GMT
Telephone:
07823 445268

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
Hazardous Waste Classification

Date
50% complete

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH05	0.2	Hazardous	HP 3(i), HP 7, HP 11	3
2	BH05[2]	1	Non Hazardous		5
3	BH05[3]	1.5	Hazardous	HP 7, HP 14	7
4	BH06	0.4	Non Hazardous		9
5	BH06[2]	1.5	Non Hazardous		11
6	HP01	0.4	Non Hazardous		13
7	HP01[2]	1.8	Non Hazardous		15
8	HP02	0.2	Non Hazardous		17
9	HP03	0.05	Non Hazardous		19
10	HP03[2]	2	Non Hazardous		21
11	TT01	0.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	23
12	TT01[2]	1.40-1.80	Non Hazardous		25
13	TT01[3]	2.5	Non Hazardous		27
14	TT02	0.40-0.60	Non Hazardous		29



#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
15	TT02[2]	2	Non Hazardous		31
16	TT04	0.12-0.55	Non Hazardous		33
17	TT04[2]	1.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	35
18	TT03	0.24-0.50	Hazardous	HP 7	37
19	TT03[2]	0.50-1.00	Hazardous	HP 3(i), HP 7, HP 11, HP 14	39
20	TT03[3]	0.90-2.20	Non Hazardous		41

Related documents

#	Name	Description
1	Waste Stream Template for Contaminated Soils plus Asbestos	waste stream template used to create this Job

Report

Created by: Billy Bradnum

Created date: 11 Jan 2022 15:20 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	43
Appendix B: Rationale for selection of metal species	43
Appendix C: Version	44

Classification of sample: BH05

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.2 m		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	8.5 mg/kg	1.32	11.223 mg/kg	0.00112 %	✓	
2	 boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %	✓	
3	 cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %	✓	
4	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		9.8 mg/kg	1.462	14.323 mg/kg	0.00143 %	✓	
5	 copper { copper(I) oxide }	029-016-00-6	215-269-1	1317-38-0	36 mg/kg	1.252	45.064 mg/kg	0.00451 %	✓	



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	430 mg/kg		430 mg/kg	0.043 %		✓	
	082-001-00-6										
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.2 mg/kg		0.2 mg/kg	0.00002 %		✓	
	080-002-00-6										
8	nickel { nickel sulfate }				11 mg/kg	2.637	29.004 mg/kg	0.0029 %		✓	
	028-009-00-5	232-104-9	7786-81-4								
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
10	zinc { zinc chloride }				140 mg/kg	2.085	291.833 mg/kg	0.0292 %		✓	
	030-003-00-2	231-592-0	7646-85-7								
11	TPH (C6 to C40) petroleum group				1700 mg/kg		1700 mg/kg	0.17 %		✓	
			TPH								
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
13	benzo[a]pyrene; benzo[def]chrysene				3 mg/kg		3 mg/kg	0.0003 %		✓	
	601-032-00-3	200-028-5	50-32-8								
Total:									0.253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH05[2]

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

Sample details

Sample name: **BH05[2]** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Sample Depth: **1 m** Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
Entry:

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

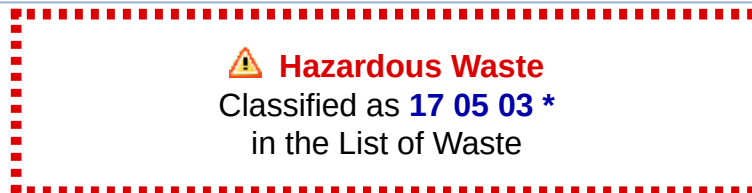
#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10	mg/kg	1.32	13.203	mg/kg	0.00132 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.8	mg/kg	3.22	2.576	mg/kg	0.000258 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.228	mg/kg	0.0000228 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23	mg/kg	1.462	33.616	mg/kg	0.00336 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				34	mg/kg	1.252	42.56	mg/kg	0.00426 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	39	mg/kg		39	mg/kg	0.0039 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	080-002-00-6											
8	nickel { nickel sulfate }				29	mg/kg	2.637	76.464	mg/kg	0.00765 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				81	mg/kg	2.085	168.846	mg/kg	0.0169 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
Total:										0.0388 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH05[3]



Sample details

Sample name:	LoW Code:
BH05[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
1.5 m	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.11%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

copper(II) oxide: (compound conc.: 0.114%)

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.11%)

zinc chloride: (compound conc.: 0.542%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				290 mg/kg	1.32	382.894 mg/kg	0.0383 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1.5 mg/kg	3.22	4.83 mg/kg	0.000483 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				6.1 mg/kg	1.142	6.968 mg/kg	0.000697 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				43 mg/kg	1.462	62.847 mg/kg	0.00628 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				910 mg/kg	1.252	1139.117 mg/kg	0.114 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1100 mg/kg		1100 mg/kg	0.11 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	4.8 mg/kg		4.8 mg/kg	0.00048 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				69 mg/kg	2.637	181.931 mg/kg	0.0182 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				3.4 mg/kg	2.554	8.683 mg/kg	0.000868 %	✓	
	028-031-00-5	239-125-2	15060-62-5							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
10	zinc { zinc chloride }				2600 mg/kg	2.085	5419.755 mg/kg		0.542 %	✓	
	030-003-00-2	231-592-0	7646-85-7								
11	TPH (C6 to C40) petroleum group				710 mg/kg		710 mg/kg		0.071 %	✓	
			TPH								
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
13	benzo[a]pyrene; benzo[def]chrysene				0.8 mg/kg		0.8 mg/kg		0.00008 %	✓	
	601-032-00-3	200-028-5	50-32-8								
Total:									0.902 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.071%)

Classification of sample: BH06

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

Sample details

Sample name:	LoW Code:
BH06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.4 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.5	mg/kg	3.22	1.61	mg/kg	0.000161 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.1	mg/kg	1.142	0.114	mg/kg	0.0000114 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				31	mg/kg	1.462	45.308	mg/kg	0.00453 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				46	mg/kg	1.252	57.582	mg/kg	0.00576 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	47	mg/kg		47	mg/kg	0.0047 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				37	mg/kg	2.637	97.557	mg/kg	0.00976 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				83	mg/kg	2.085	173.015	mg/kg	0.0173 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
14	asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									



#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
Total:									0.0458 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH06[2]

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

Sample details

Sample name:	LoW Code:
BH06[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				35	mg/kg	1.32	46.211	mg/kg	0.00462 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1	mg/kg	3.22	3.22	mg/kg	0.000322 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30	mg/kg	1.462	43.847	mg/kg	0.00438 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				180	mg/kg	1.252	225.32	mg/kg	0.0225 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	170	mg/kg		170	mg/kg	0.017 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.68	mg/kg		0.68	mg/kg	0.000068 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				40	mg/kg	2.637	105.467	mg/kg	0.0105 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				470	mg/kg	2.085	979.725	mg/kg	0.098 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		360	mg/kg		360	mg/kg	0.036 %	✓	
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
	601-032-00-3	200-028-5	50-32-8									
14	asbestos				10	mg/kg		10	mg/kg	0.001 %	✓	
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
Total:								0.195 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.036%)

Classification of sample: HP01

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

Sample details

Sample name:	LoW Code:
HP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.4 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				19 mg/kg	1.32	25.086 mg/kg	0.00251 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				5.8 mg/kg	1.142	6.626 mg/kg	0.000663 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.8 mg/kg	1.462	14.323 mg/kg	0.00143 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				160 mg/kg	1.252	200.284 mg/kg	0.02 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	700 mg/kg		700 mg/kg	0.07 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	1.4 mg/kg		1.4 mg/kg	0.00014 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				13 mg/kg	2.637	34.277 mg/kg	0.00343 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				430 mg/kg	2.085	896.344 mg/kg	0.0896 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		180 mg/kg		180 mg/kg	0.018 %	✓	
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				0.8 mg/kg		0.8 mg/kg	0.00008 %	✓	
	601-032-00-3	200-028-5	50-32-8							
Total:								0.206 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.018%)

Classification of sample: HP01[2]

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

Sample details

Sample name: **HP01[2]** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Sample Depth: **1.8 m** Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
Entry:

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				140 mg/kg	1.252	175.249 mg/kg	0.0175 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150 mg/kg		150 mg/kg	0.015 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.35 mg/kg		0.35 mg/kg	0.000035 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				31 mg/kg	2.637	81.737 mg/kg	0.00817 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				170 mg/kg	2.085	354.369 mg/kg	0.0354 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
Total:								0.083 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP02

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

Sample details

Sample name:	LoW Code:
HP02	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	8.714 mg/kg	0.000871 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				20 mg/kg	1.252	25.036 mg/kg	0.0025 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	78 mg/kg		78 mg/kg	0.0078 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.11 mg/kg		0.11 mg/kg	0.000011 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				13 mg/kg	2.637	34.277 mg/kg	0.00343 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				51 mg/kg	2.085	106.311 mg/kg	0.0106 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		620 mg/kg		620 mg/kg	0.062 %	✓	
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				0.3 mg/kg		0.3 mg/kg	0.00003 %	✓	
	601-032-00-3	200-028-5	50-32-8							
Total:								0.0899 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.062%)

Classification of sample: HP03

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

Sample details

Sample name:	LoW Code:
HP03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.05 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				5.9	mg/kg	1.32	7.79	mg/kg	0.000779 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.3	mg/kg	3.22	0.966	mg/kg	0.0000966 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10	mg/kg	1.462	14.616	mg/kg	0.00146 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				29	mg/kg	1.252	36.302	mg/kg	0.00363 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	74	mg/kg		74	mg/kg	0.0074 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				9	mg/kg	2.637	23.73	mg/kg	0.00237 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				130	mg/kg	2.085	270.988	mg/kg	0.0271 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		93	mg/kg		93	mg/kg	0.0093 %	✓	
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %	✓	
	601-032-00-3	200-028-5	50-32-8									
Total:										0.0524 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0093%)

Classification of sample: HP03[2]

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

Sample details

Sample name: **HP03[2]** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Sample Depth: **2 m** Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
Entry:

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8	mg/kg	1.32	10.563	mg/kg	0.00106 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.2	mg/kg	3.22	0.644	mg/kg	0.0000644 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.1	mg/kg	1.462	13.3	mg/kg	0.00133 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				24	mg/kg	1.252	30.043	mg/kg	0.003 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	250	mg/kg		250	mg/kg	0.025 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				7.5	mg/kg	2.637	19.775	mg/kg	0.00198 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				77	mg/kg	2.085	160.508	mg/kg	0.0161 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		93	mg/kg		93	mg/kg	0.0093 %	✓	
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
	601-032-00-3	200-028-5	50-32-8									
Total:										0.058 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

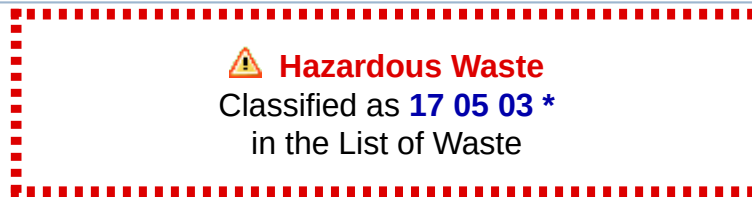
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0093%)

Classification of sample: TT01



Sample details

Sample name:	LoW Code:	
TT01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.5 m		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.31%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.2%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.31%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.31%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.2%)
zinc chloride: (compound conc.: 0.667%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				42	mg/kg	1.32	55.454	mg/kg	0.00555 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1.6	mg/kg	3.22	5.152	mg/kg	0.000515 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				3.2	mg/kg	1.142	3.655	mg/kg	0.000366 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				170	mg/kg	1.462	248.464	mg/kg	0.0248 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				620	mg/kg	1.252	776.102	mg/kg	0.0776 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	2000	mg/kg		2000	mg/kg	0.2 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	7.2	mg/kg		7.2	mg/kg	0.00072 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				76	mg/kg	2.637	200.388	mg/kg	0.02 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				2.6	mg/kg	2.554	6.64	mg/kg	0.000664 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				3200	mg/kg	2.085	6670.468	mg/kg	0.667 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group				3100	mg/kg		3100	mg/kg	0.31 %	✓	
			TPH									
12	naphthalene				0.55	mg/kg		0.55	mg/kg	0.000055 %	✓	
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				2.8	mg/kg		2.8	mg/kg	0.00028 %	✓	
	601-032-00-3	200-028-5	50-32-8									
14	asbestos				10	mg/kg		10	mg/kg	0.001 %	✓	
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
Total:										1.309 %		

Key

	User supplied data
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
CLP: Note 1 Only the metal concentration has been used for classification	

Classification of sample: TT01[2]

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

Sample details

Sample name:	LoW Code:
TT01[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.40-1.80 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				72 mg/kg	1.32	95.063 mg/kg	0.00951 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				2.5 mg/kg	3.22	8.05 mg/kg	0.000805 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				4.5 mg/kg	1.142	5.14 mg/kg	0.000514 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	38 mg/kg	0.0038 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				380 mg/kg	1.252	475.675 mg/kg	0.0476 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	670 mg/kg		670 mg/kg	0.067 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	2.2 mg/kg		2.2 mg/kg	0.00022 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				58 mg/kg	2.637	152.928 mg/kg	0.0153 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				0.9 mg/kg	2.554	2.298 mg/kg	0.00023 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				1100 mg/kg	2.085	2292.973 mg/kg	0.229 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
Total:								0.375 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT01[3]

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

Sample details

Sample name:	LoW Code:
TT01[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.5 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8.5	mg/kg	1.32	11.223	mg/kg	0.00112 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.7	mg/kg	3.22	2.254	mg/kg	0.000225 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27	mg/kg	1.462	39.462	mg/kg	0.00395 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				75	mg/kg	1.252	93.883	mg/kg	0.00939 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.32	mg/kg		0.32	mg/kg	0.000032 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				29	mg/kg	2.637	76.464	mg/kg	0.00765 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				0.5	mg/kg	2.554	1.277	mg/kg	0.000128 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				120	mg/kg	2.085	250.143	mg/kg	0.025 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
Total:										0.0596 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT02

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

Sample details

Sample name:	LoW Code:
TT02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40-0.60 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				57 mg/kg	1.462	83.309 mg/kg	0.00833 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				87 mg/kg	1.252	108.905 mg/kg	0.0109 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150 mg/kg		150 mg/kg	0.015 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.59 mg/kg		0.59 mg/kg	0.000059 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				35 mg/kg	2.637	92.284 mg/kg	0.00923 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				180 mg/kg	2.085	375.214 mg/kg	0.0375 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				0.2 mg/kg		0.2 mg/kg	0.00002 %	✓	
	601-032-00-3	200-028-5	50-32-8							
Total:								0.0848 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT02[2]

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

Sample details

Sample name:	LoW Code:
TT02[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				29 mg/kg	1.32	38.289 mg/kg	0.00383 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1.6 mg/kg	3.22	5.152 mg/kg	0.000515 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				1 mg/kg	1.142	1.142 mg/kg	0.000114 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24 mg/kg	1.462	35.077 mg/kg	0.00351 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				180 mg/kg	1.252	225.32 mg/kg	0.0225 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	230 mg/kg		230 mg/kg	0.023 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	1.3 mg/kg		1.3 mg/kg	0.00013 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				30 mg/kg	2.637	79.101 mg/kg	0.00791 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				0.6 mg/kg	2.554	1.532 mg/kg	0.000153 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				200 mg/kg	2.085	416.904 mg/kg	0.0417 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
Total:								0.104 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT04

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

Sample details

Sample name:	LoW Code:
TT04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.12-0.55 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				26 mg/kg	1.32	34.328 mg/kg	0.00343 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				2.8 mg/kg	3.22	9.016 mg/kg	0.000902 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				33 mg/kg	1.462	48.231 mg/kg	0.00482 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				140 mg/kg	1.252	175.249 mg/kg	0.0175 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	330 mg/kg		330 mg/kg	0.033 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.38 mg/kg		0.38 mg/kg	0.000038 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				37 mg/kg	2.637	97.557 mg/kg	0.00976 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				210 mg/kg	2.085	437.749 mg/kg	0.0438 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group		TPH		990 mg/kg		990 mg/kg	0.099 %	✓	
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				2.7 mg/kg		2.7 mg/kg	0.00027 %	✓	
	601-032-00-3	200-028-5	50-32-8							
14	asbestos				10 mg/kg		10 mg/kg	0.001 %	✓	
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
Total:								0.214 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

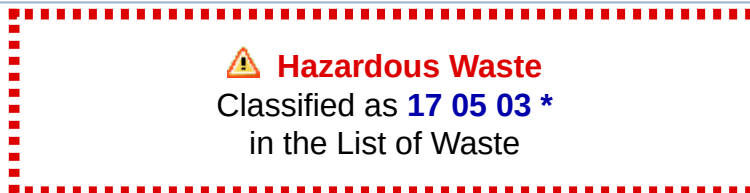
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.099%)

Classification of sample: TT04[2]



Sample details

Sample name:	LoW Code:	
TT04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.5 m		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.37%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.13%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.37%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.37%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

copper(II) oxide: (compound conc.: 0.125%)

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.13%)

zinc chloride: (compound conc.: 0.5%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

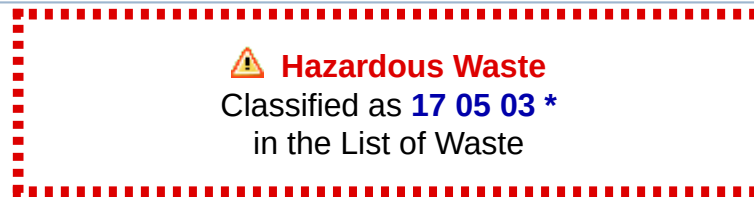


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				450	mg/kg	1.32	594.146	mg/kg	0.0594 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				2.2	mg/kg	3.22	7.084	mg/kg	0.000708 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				4.5	mg/kg	1.142	5.14	mg/kg	0.000514 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				47	mg/kg	1.462	68.693	mg/kg	0.00687 %	✓	
		215-160-9	1308-38-9									
5	copper { copper(II) oxide }				1000	mg/kg	1.252	1251.777	mg/kg	0.125 %	✓	
	029-016-00-6	215-269-1	1317-38-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1300	mg/kg		1300	mg/kg	0.13 %	✓	
	082-001-00-6											
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	3.9	mg/kg		3.9	mg/kg	0.00039 %	✓	
	080-002-00-6											
8	nickel { nickel sulfate }				72	mg/kg	2.637	189.841	mg/kg	0.019 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				3.8	mg/kg	2.554	9.705	mg/kg	0.00097 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc chloride }				2400	mg/kg	2.085	5002.851	mg/kg	0.5 %	✓	
	030-003-00-2	231-592-0	7646-85-7									
11	TPH (C6 to C40) petroleum group		TPH		3700	mg/kg		3700	mg/kg	0.37 %	✓	
12	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %	✓	
	601-032-00-3	200-028-5	50-32-8									
Total:										1.213 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT03



Sample details

Sample name:	LoW Code:
TT03	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.24-0.50 m	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos: (conc.: 0.4%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				40 mg/kg	1.32	52.813 mg/kg	0.00528 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	boron { diboron trioxide; boric oxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %	✓		
	005-008-00-8	215-125-8	1303-86-2								
3	cadmium { cadmium oxide }				6.5 mg/kg	1.142	7.425 mg/kg	0.000743 %	✓		
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				38 mg/kg	1.462	55.539 mg/kg	0.00555 %	✓		
		215-160-9	1308-38-9								
5	copper { copper(II) oxide }				270 mg/kg	1.252	337.98 mg/kg	0.0338 %	✓		
	029-016-00-6	215-269-1	1317-38-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	610 mg/kg		610 mg/kg	0.061 %	✓		
	082-001-00-6										
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.65 mg/kg		0.65 mg/kg	0.000065 %	✓		
	080-002-00-6										
8	nickel { nickel sulfate }				51 mg/kg	2.637	134.471 mg/kg	0.0134 %	✓		
	028-009-00-5	232-104-9	7786-81-4								
9	selenium { nickel selenate }				1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
10	zinc { zinc chloride }				940 mg/kg	2.085	1959.45 mg/kg	0.196 %	✓		
	030-003-00-2	231-592-0	7646-85-7								
11	TPH (C6 to C40) petroleum group				850 mg/kg		850 mg/kg	0.085 %	✓		
			TPH								
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
13	benzo[a]pyrene; benzo[def]chrysene				1.1 mg/kg		1.1 mg/kg	0.00011 %	✓		
	601-032-00-3	200-028-5	50-32-8								



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	asbestos									
	650-013-00-6	-----	12001-28-4							
			132207-32-0							
			12172-73-5							
			77536-66-4							
			77536-68-6							
			77536-67-5							
			12001-29-5							
Total:								0.802 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

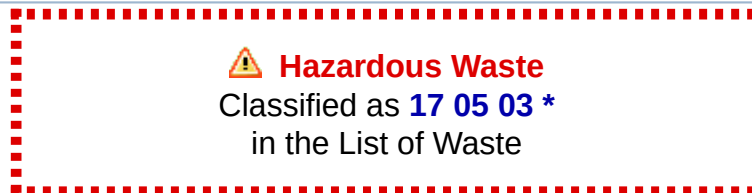
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.085%)

Classification of sample: TT03[2]



Sample details

Sample name:	LoW Code:	
TT03[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.50-1.00 m		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because Unlikely to be flammable based on soil matrix and absence of a free draining liquid phase. However, if value over conservative value of 1,000mg/kg, then soil sample considered hazardous

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.64%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.64%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.64%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc chloride: (compound conc.: 0.605%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				97 mg/kg	1.32	128.072 mg/kg	0.0128 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %	✓	
	005-008-00-8	215-125-8	1303-86-2							



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
3		cadmium { cadmium oxide }			1	21	mg/kg	1.142	23.989	mg/kg	0.0024 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }			1	31	mg/kg	1.462	45.308	mg/kg	0.00453 %	✓	
			215-160-9	1308-38-9									
5		copper { copper(II) oxide }			1	470	mg/kg	1.252	588.335	mg/kg	0.0588 %	✓	
		029-016-00-6	215-269-1	1317-38-0									
6		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	910	mg/kg		910	mg/kg	0.091 %	✓	
		082-001-00-6											
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	2.1	mg/kg		2.1	mg/kg	0.00021 %	✓	
		080-002-00-6											
8		nickel { nickel sulfate }			1	38	mg/kg	2.637	100.194	mg/kg	0.01 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
9		selenium { nickel selenate }			1	1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓	
		028-031-00-5	239-125-2	15060-62-5									
10		zinc { zinc chloride }			1	2900	mg/kg	2.085	6045.112	mg/kg	0.605 %	✓	
		030-003-00-2	231-592-0	7646-85-7									
11		TPH (C6 to C40) petroleum group			1	6400	mg/kg		6400	mg/kg	0.64 %	✓	
				TPH									
12		naphthalene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
13		benzo[a]pyrene; benzo[def]chrysene			1	1.1	mg/kg		1.1	mg/kg	0.00011 %	✓	
		601-032-00-3	200-028-5	50-32-8									
Total:									1.425 %				

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TT03[3]

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

Sample details

Sample name:	LoW Code:
TT03[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90-2.20 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				5.3 mg/kg	1.142	6.054 mg/kg	0.000605 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27 mg/kg	1.462	39.462 mg/kg	0.00395 %	✓	
		215-160-9	1308-38-9							
5	copper { copper(II) oxide }				76 mg/kg	1.252	95.135 mg/kg	0.00951 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	140 mg/kg		140 mg/kg	0.014 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.27 mg/kg		0.27 mg/kg	0.000027 %	✓	
	080-002-00-6									
8	nickel { nickel sulfate }				32 mg/kg	2.637	84.374 mg/kg	0.00844 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { nickel selenate }				0.7 mg/kg	2.554	1.788 mg/kg	0.000179 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
10	zinc { zinc chloride }				550 mg/kg	2.085	1146.487 mg/kg	0.115 %	✓	
	030-003-00-2	231-592-0	7646-85-7							
11	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
12	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
Total:								0.155 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

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

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

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

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

copper {copper(II) oxide}

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

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case CLP species based on hazard statements/molecular weight

mercury {inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel sulfate}

Reasonable case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

zinc {zinc chloride}

Reasonable case CLP species based on hazard statements/molecular weight



Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2022.11.4970.9430 (11 Jan 2022)

HazWasteOnline Database: 2022.4.4967.9426 (04 Jan 2022)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Appendix F – Geotechnical Risk Register

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Unforeseen ground conditions	Ground conditions differ from those assumed within the design	Delays on site Possible re-design of foundations, retaining structures etc. Financial implications	High	Desk based study and intrusive investigation undertaken to inform the ground model and facilitate design. Note: ground investigation only samples a limited amount of the ground and conditions may exist between exploratory holes that are not identified by the ground investigation and cannot be anticipated from interpretation of the available data. As such, the risk of unforeseen ground conditions cannot be entirely mitigated	Client
Poor performance of external areas and retaining walls	Poor ground conditions in the central area of the site / area of former canal arm	Delays on site Financial implications Remedial works required	Moderate	Supplementary investigation within the footprint of the former canal arm recorded areas of weak/soft Made Ground that are unlikely to be suitable for supporting loads or pavements. Some Made Ground materials unsuitable for reuse in their current condition. Consideration given to replacing materials or modifying material.	Designer
Excessive pile settlement, possible pile failure	Variations in strata	Additional piles may be required Financial implications Damage to structure	Moderate	Risk to be considered by contractor. Account to be taken of the variation of materials within the Glacial Till Appropriate monitoring of piling operations to confirm arisings and pile termination stratum	Piling Contractor



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SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Excessive pile settlement, possible pile failure	Depth of weak/soft deposits related to former canal basin are deeper or more laterally extensive than anticipated	Additional piles may be required Financial implications Damage to structure	Moderate	Supplementary investigative works undertaken to delineate the basin extents. Risk to be considered by contractor. Appropriate monitoring of piling operations to confirm arisings and pile termination stratum	Client/ Contractor
Piles fail to reach design level	Use of inappropriate rig/piling method	Additional piles may be required Financial implications Delays on site	Moderate	Piling Contractor to use an appropriate piling method based on a conservative assessment of ground conditions.	Piling Contractor
Piles fail to reach design level	Obstructions in the Made Ground	Piles cannot be installed Delays whilst obstructions are removed Financial implications	High	Investigations record canal walls still in situ and some large clasts inc. coping stones within canal backfill Principal Contractor and Piling Contractor to assess the risk of obstructions and implement suitable mitigation measures.	Principal Contractor/Piling Contractor
Piles fail to reach design level	Boulders in Glacial Till	Piles cannot be installed Delays whilst obstructions are removed Financial implications	Low	Piling Contractor to assess the risk and implement suitable mitigation measures.	Piling Contractor

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SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Bearing piles fail to provide adequate capacity	Ground conditions worse than anticipated Variations in rockhead Inappropriate assessment of the ground investigation data	Additional piles may be required Financial implications Delays on site Damage to structure	Low / moderate	Phase I desk study and intrusive investigation undertaken to inform ground model and facilitate design. Pile design to be undertaken by a competent contractor based on their own conservative assessment of the ground investigation data. Appropriate monitoring of piling operations. Any indication of changing/differing ground conditions to be reported. Pile testing to be incorporated at an early stage.	Piling Contractor/Client
Bearing piles constructed outwith planned locations	Poor setting out	Pile design may need to be revisited Additional piles may be required	Moderate	Appropriate supervision of pile setting out and installation. Use of appropriately experienced contractor. Works to be undertaken to an agreed specification.	Piling Contractor
Poor performance of retaining walls	Inadequate founding strata Unsuitable backfill Poor design	Damage to structure Remedial works required Financial implications	Moderate	Supplementary investigation within the footprint of the former canal arm recorded areas of weak/soft Made Ground that are unlikely to be suitable for supporting loads or pavements. Walls to be founded on competent natural strata or piled. Formation to be inspected by a suitably qualified and experienced geotechnical engineer. Backfill material to be appropriately specified and placed in accordance with an earthworks specification. Walls to be designed in accordance with current best practice considering all temporary, permanent and accidental loading conditions.	Contractor and Designer

ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

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SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Poor performance of ground bearing slabs and internal paved areas	Poor ground conditions within former canal basin Poor preparation of formation Poor placement of fill, use of inadequate fill materials Inadequate design	Remedial works required Financial implications	Moderate	Supplementary investigation within the footprint of the former canal arm recorded areas of weak/soft Made Ground that are unlikely to be suitable for supporting loads or pavements. Formation to be adequately prepared and validated. Use of suitable material, placed to an adequate standard Preparation of an earthworks specification for use by the Contractor Pavement design to suit subgrade strength.	Contractor and Designer
Poor performance of external paved areas	Poor ground conditions within former canal basin Poor preparation of formation Poor placement of fill, use of inadequate fill materials Inadequate design	Remedial works required Financial implications	Moderate	Supplementary investigation within the footprint of the former canal arm recorded areas of weak/soft Made Ground that are unlikely to be suitable for supporting loads or pavements. Allowance to be made for the removal of such materials and their replacement with suitable fill materials. Formation to be adequately prepared and validated. Use of suitable material, placed to an adequate standard Preparation of an earthworks specification for use by the Contractor Pavement design to suit subgrade strength.	Contractor and Designer



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70084785-WSP-GEO-IGR-002 R01 Final

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SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Collapse of excavations Damage to adjacent structures and infrastructure	Insufficient ground support, poor design of batters/ground support	Health & Safety implications Financial implications Delays on site	High	Investigation indicated significant inflow of water within Made Ground in particular within the fill canal arm. Some Made Ground materials noted to degrade on excavation or disturbance. Temporary works to be appropriately designed to consider ground stability, groundwater level, loading and proximity and nature of site boundaries. Stability to be ensured by competent design and use of ground support, appropriate safe batters, or underpinning.	Contractor
Difficult excavation	Obstructions in Made Ground	Financial implications Delays on site	High	A detailed strategy for obstruction removal should be implemented to ensure that abnormal costs are appropriately managed. Some Made Ground materials noted to degrade on excavation or disturbance.	Contractor
Excessive groundwater ingress into excavations	Groundwater levels higher than currently anticipated. Bodies of perched water	Health & Safety implications Delays to programme	High	Allowance to be made for dewatering during excavations. Dewatering works to be assessed and designed by a competent specialist contractor.	Contractor / Designer
Toppling of piling rig, failure of ground surface under heavy plant loads	Poor design of working platform Unsuitable soils present close to ground level	Health and safety implications	High	Allowance to be made for the removal of poor/unsuitable soils Working platforms to be designed and maintained in accordance with current good practice	Piling Contractor & Principal Contractor

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SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Damage to services	Inappropriate buried services assessment	Delays Health and safety issues Financial / legal implications	High	Undertake appropriate services search and undertake diversion/disconnection where necessary. Appropriate supervision of pile setting out and installation.	Contractor
Degradation of below ground concrete	Inappropriate concrete assessment	Remedial works required Financial implications	Moderate	Further chemical testing to be undertaken. Undertake sufficient number of sulphate and pH tests. Appropriate assessment of groundwater activity.	Designer
Groundwater contamination	Piles create preferential pathway for contaminants in Made Ground into underlying aquifer Piling method carries contaminants into aquifer	Contamination of aquifer Financial implications Delays	Moderate to low	Ground investigation and laboratory testing undertaken to allow assessment of the contamination status of the ground. Concrete will be cast directly against soil/rock minimising the risk of flow path developing along the sides of the pile. Piles are likely to be installed using CFA methods and, as such, contaminants are likely to be drawn towards the surface during installation. Piling method to be confirmed and agreed with relevant statutory authorities in advance of works.	Designer / Contractor
Groundwater contamination	Contamination of aquifer with materials related to the piling operations	Contamination of aquifer Financial implications Delays	Low	Rock is not considered fissured or permeable enough to allow concrete to bleed into the aquifer. Piling method to be confirmed and agreed with relevant statutory authorities.	Designer / Contractor



ADDENDUM TO PHASE 2 REPORT

70084785-WSP-GEO-IGR-002 R01 Final

DATE:	17 January 2022	CONFIDENTIALITY:	Confidential
SUBJECT:	Supplementary Investigation		
PROJECT:	Port Street	AUTHOR:	R Home / T Duchene
CHECKED:	R Thompson / N Gilmour	APPROVED:	M Neden

Hazard	Cause	Consequence	Perceived Level of Risk Without Control	Control Adopted	Risk Ownership
Exposure to asbestos containing materials and general contamination	Presence of asbestos and contamination within Made Ground	Health and Safety implications	Moderate	Ground investigation and laboratory testing undertaken to allow assessment of the contamination status of the ground. The Principal Contractor to provide the Piling Contractor with all available relevant information regarding ground contamination. The Contractor shall review all available ground investigation data and prepare their own method statements and risk assessments considering the specialist works to be undertaken in accordance with all applicable guidance and legislation, including the Control of Asbestos Regulations 2012.	Principal Contractor, Piling Contractor, & Client