Document Submittal Form

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Document/submittal reference No:	**KL02-JCA-0-L0-SU-V-00001**

JCA Site Team Submission	
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Discipline:	Survey / Mapping
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JCA Design Team Review			
JCA Principle Designer Reviewed By	**Gary Sian**	Signature:	
Comments:			
Authorised for submission to the Employer by Site Manager:	-	Signature:	-
Comments:			

Employer's Review			
Employer's Mark:		*Note: Status A, B, C*	
Employer's Comments:			
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Ground Investigation Report

Project Reference: P21.242.GIR

KAO Data Park, Harlow

Prepared For

JCA

IMPACT GEOTECHNICAL

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Report Approval

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Revision – Requested by	**Nature of Revision**	**Date**

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Appendices

Trading Terms
Unless specifically stated within the tender/quotation or unless identified within the introduction to this report it is confirmed that this report has been compiled wholly in accord with Impact Geotechnical Ltd's terms of engagement. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.

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Context
This report is written in the context of an agreed scope of work between Impact Geotechnical Ltd and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation amendment or re-interpretation of the report in whole or part may be necessary after its original submission.

Professional Interpretation
The recommendations made and opinions expressed in the report are based on the conditions revealed by the site works together with an assessment of the data from the insitu and laboratory testing or in respect of the desktop reports. No responsibility can be accepted for conditions that have not been revealed by the research, site works and testing.

The Client is advised that the conditions observed on site by Impact Geotechnical Ltd at the time of any site survey may be subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance and they may subsequently have become evident. It is not possible to assess areas which are inaccessible or where access is not granted and IGL accept no liability for risks subsequently identified therein.

The Conceptual Site Model, Risk Assessment and sampling regime has been formulated in accordance with current UK guidance at time of production based upon the relevant information gained from Stage1, Stage 2 and Stage 3 Risk Assessments. While the model and assessment offer opinions and interpretations of these guidelines, the comments made are for guidance only and no liability can be accepted for their accuracy. It is possible that aspects of Geo-environmental reports may need to be altered following consultation with the statutory regulatory bodies to suit planning requirements.

Intrusive Field Operations
The data collected through direct operations in the production of this report has been so obtained, unless directly otherwise stated, in accordance with current UK guidance, law or accepted industry practice, including but not limited to: BS.5930: 1990 Code of Practice for Site Investigations (Amendment 3: 2015+A1:2020), & BS.10175: 2011 + A2: 2017 Investigations into Potentially Contaminated Sites. Exact exploratory locations will depend upon access conditions, site use and plant capability, IGL do not accept liability for issues arising from material identified between or outside of the area of exploratory locations.

Laboratory Testing
Unless stated otherwise within the text, all geotechnical and material laboratory tests have been performed in accordance with the relevant British Standard Documents. Laboratory testing for contaminated land assessment is completed under the UKAS / MCERTS accreditation schemes, unless identified as otherwise in the report.

Human Health Risk Assessment Criteria
The Environment Agency has undertaken revision of the Soil Guideline Values (SGVs) which are partially complete. Where standards are available using the "new" approach, these have been utilised for correlative purposes. Where standards have not yet been revised, guidance following the "old" approach has been utilised. Please note that upon release of the remaining guidelines, the standards contained within this report may be subject to change. In addition, the second edition of the LQM CIEH guidance has now been released and will be utilised in favour of previously published guideline values.

Third Parties
The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from previous Site investigations and chemical testing laboratories. IGL has assumed that such information is correct. IGL cannot and does not guarantee the authenticity or reliability of the information it has relied upon and can accept no responsibility for inaccuracies with the data supplied by other parties.

The accuracy of the historical map extracts supplied cannot be guaranteed and it should be noted that different conditions may have existed between mapping sheet editions. Therefore, there can be no certainty that all areas of contamination have been identified during the Stage 1: Tier 1 Preliminary Risk Assessment.

Definitions
Reference to the word "contamination" in this report does not relate to the statutory definition of contaminated land under 1990 Environmental Protection Act unless otherwise stated. The definition used in this report is: "Land that contains substances that, when present in sufficient quantities or concentrations, are likely to cause harm, directly or indirectly, to man, to the environment, or on occasion to other targets" (NATO CCMS, 1985).

1. INTRODUCTION

1.1 Context

Impact Geotechnical Ltd (IGL) were instructed by JCA Engineering Limited (the Client) (Q21.321.01) to carry out a Ground Investigation and prepare a report on the findings in relation to the proposed development at KAO Data Centre, London Road, Harlow CM17 9NA (hereafter referred to as the "site").

The site is located within the KAO business / Data park complex and is currently formed by a parcel of undeveloped land, which previously occupied part of a, now partially demolished business park.

1.2 Proposals

Current proposals include the construction of a new Data Centre building, this will include the removal of several stockpiles of demolition materials and the erection of a new portal framed type building.

1.3 Brief

The aims of this report are to provide geo-environmental test data to support the disposal of the stockpile materials and shallow soils from site, as well as providing geotechnical design information to a depth of 30.00mbgl (metres below ground level).

The scope of works was agreed with the client prior to works commencing and included the drilling of 1no cable percussion borehole to a depth of 30mbgl, as well as the collection of 38no soil samples of stockpile and shallow soils onsite.

2. SITE LAYOUT

2.1 Location

The site is located in the suburb of Newhall to the east of the town of Harlow, Essex. Access is gained at the eastern elevation via the dedicated access roadway to the KAO business / Data centre.

2.2 Description

At the time of the survey works the site was in a demolished condition, laid to crushed demolition rubble and bare soil. Broadly rectangular in plan area, the plot is flanked by KAO business park to the west and north, a construction site compound to the south and shares an open boundary to the east with further similar areas of vacant plot.

2.3 Trees and Vegetation

The site area is generally devoid of vegetation, except sporadic grass and buddleia. Occasional planting is noted to the Business Park to the west.

2.4 Topography

A very gradual slope to the south is present onsite, with an approximate elevation of 75-76mAOD.

3. PHYSICAL SETTING

3.1 Published Geology

The following observations are taken from the British Geological Survey (BGS) Geology of Britain Viewer (2021).

The Geology of Britain Viewer indicates that the site is likely underlain by superficial deposits of the Lowestoft Formation overlying bedrock Geology of the London Clay Formation

Lowestoft Formation – Diamicton of glacial origin, predominantly recovered as a heavily overconsolidated clay with scattered gravels and cobbles of chalk and flint. Occasional 'wash out' lenses of sand and gravel are present as channels within the stratum.

London Clay Formation – Eocene age overconsolidated 'heavy' and plastic Clay and locally very weak mudstone. Typically this unit is encountered as a bluish grey locally silty Clay which weathers to stiff brown clay near the surface.

4. FIELDWORKS

An investigation was required to identify the ground conditions on site to inform on the proposed development in terms of geotechnical aspects.

4.1 Site Management and Preparation

The following intrusive works were undertaken on 26th and 27th October 2021, supervised by an Engineer from IGL. Where applicable, the works were carried out in accordance with statutory guidance including

BS5930:2015+A1:2020 *Code of Practice for Site Investigations* and BS 10175:2011+A2:2017 *Investigation of Potentially Contaminated Sites: Code of Practice*.

Prior to any excavations taking place, a Cable Avoidance Tool (CAT) was used to check for the position of any underlying electrical services. In addition, starter pits were excavated to 1.00 metres below ground level (mbgl) to clear test locations prior to any intrusive work.

4.2 Rationale

The scope of works was provided by the client in order to provide additional pile design information and to allow soil analysis to assist in Waste Disposal. This scope was mutually agreed with IGL and the Client and was to be achieved with the completion of boreholes and trial holes to assess the nature of the underlying soils and groundwater conditions, along with specified in-situ testing. Samples were collected for subsequent laboratory analysis. A plan indicating intrusive locations can be viewed in Appendix A.

4.2.1. Cable Percussive Borehole

One cable percussive borehole (BH1) was advanced to a maximum depth of 30.00mbgl using a cable percussive drilling rig. The exploratory hole was located at a location agreed with the client's representative, allowing for buried services locations. In-situ Standard Penetration Testing (SPT) was completed at regular intervals to provide information on geotechnical parameters. The borehole was backfilled with arisings in reverse order and reinstated in respect of existing conditions upon completion.

4.2.2. Soil Sampling Locations

38no locations (ES1-ES38) were excavated to a maximum depth of 1.00mbgl by means of a mechanical excavator to allow collection of samples of emplaced / reworked soils. 11no of these samples were recovered from existing Spoil Heaps (SH1-SH3). Remaining locations were completed on an approximate 25m x 25m grid.

Soil Samples were taken from selected depths in each location in order to provide a spread of samples of the various soil types encountered; samples were collected in amber glass jars and plastic pots before being placed in temperature controlled transport to the laboratory.

The locations and sample depths, where applicable, of the samples, as well as a logging engineer's description of the sampled material is provided in Appendix B.

4.3 Limitations

No relevant limitations affected the completion of the works.

5. GROUND CONDITIONS

5.1 Summary of Ground Conditions

The following soil conditions were encountered during the borehole investigation works; descriptions of environmental samples are contained in Appendix B. They are generally considered to be consistent with the published geology. A summary of the encountered ground strata is included within the table below (over page). Please refer to the engineering logs within Appendix B for more detailed descriptions.

Stratum	Depth Range Encountered	Detail Description
Made Ground	GL to 0.35mbgl	Light brown gravelly sand to a depth of 0.15m, with gravels of brick, concrete and flint. A layer of Asphalt was encountered at 0.15-0.20mbgl. Subsequently, dark grey slightly sandy gravelly Clay, with gravels of concrete and limestone was encountered to a depth of 0.35mbgl.
Lowestoft Formation	0.35m to 23.30mbgl	Initially this stratum was encountered in a weathered condition as stiff consistency brown mottled slightly gravelly, slightly sandy Clay. The gravel component is of rounded chalk and rarely flint. Very Stiff dark grey slightly sandy, silty Clay with decreasing chalk gravel content was the dominant soil type to 23.30mbgl A layer of medium dense sandy Gravel of flint, however, was encountered at 12.00-15.00mbgl
London Clay Formation	23.30m to >30.00mbgl	Very stiff dark grey Clay with medium to widely spaced subvertical fissuring.

Table 5.1: Summary of Ground Conditions

5.2 Groundwater Conditions

Groundwater was encountered within the borehole at a depth of 12.20mbgl, rising to 11.50mbgl after 20mins. It was noted that several of the environmental sampling locations suffered from standing water at or near ground level, likely due to water perched within the upper reworked deposits.

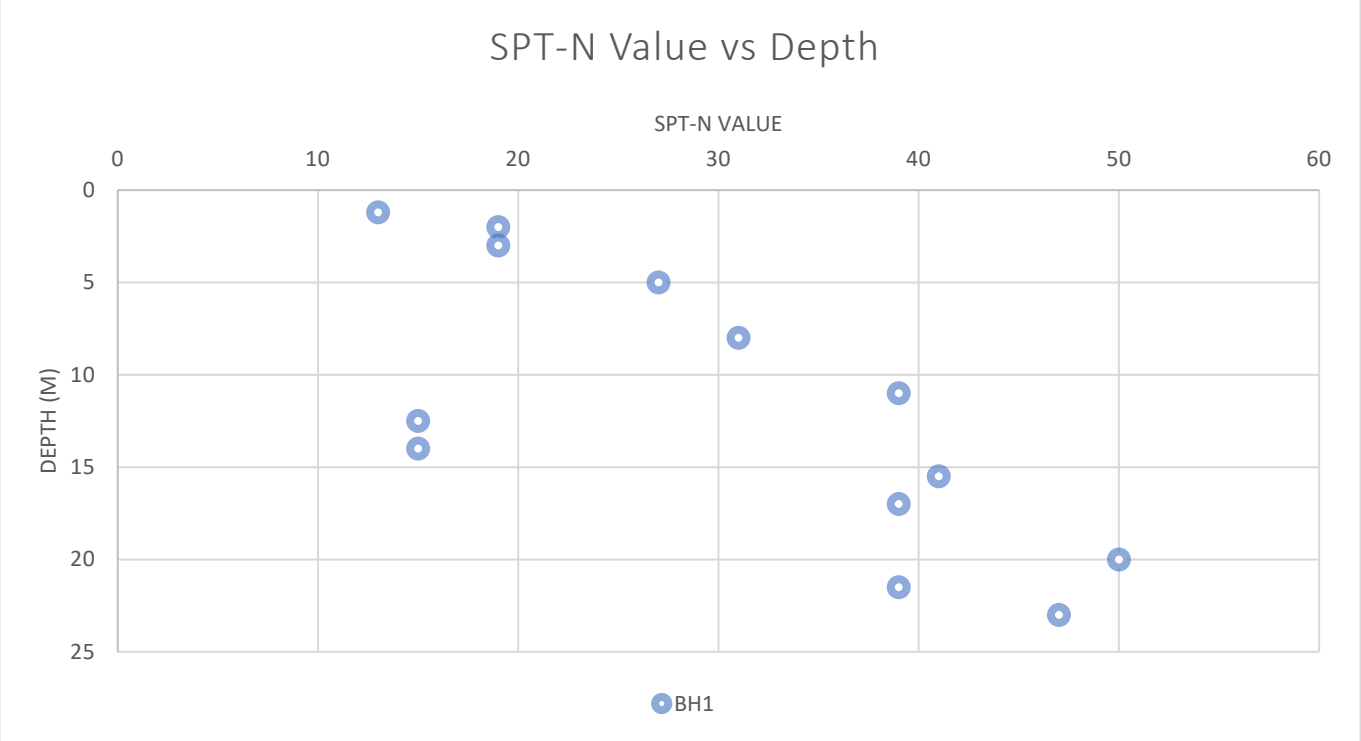
5.3 Visual and Olfactory Observations

With the exception of anthropogenic materials encountered within the Made Ground soils, no visual or olfactory evidence of soil or groundwater contamination was noted during the investigation works.

6. IN-SITU TESTING

6.1 Standard Penetration Testing

Standard Penetration Testing (SPT) was completed throughout the drilling of the borehole at regular intervals. SPT is an in-situ dynamic penetration test to provide information on the geotechnical engineering properties of soil. This form of testing is completed using a 63.5kg drop hammer weight, over a 750mm drop, measuring the blow counts for six, 75mm increments. The first two values are recorded as seating blows, with the remaining four values, added together to provide an 'N-value'. An 'N-value' of N≥50 is considered a refusal. The results are presented within the graph below (over page). It is recommended to review the engineering logs within Appendix B for more information.



Graph 5.1: Standard Penetration Testing

Results show a generally increasing trend in N-value with results suggesting stiff, becoming very stiff consistency soils. The results at 12.50-14.00mbgl are considered indicative of medium dense soil consistency.

7. LABORATORY TESTING

Soil samples collected during the IGL investigation from various depths and locations were submitted to UKAS accredited laboratories. Geotechnical test certificates included as Appendix D.

7.1 Geotechnical Testing

7.1.1. Atterberg Limits and Natural Moisture Content

In total, seven disturbed samples of the underlying soils were submitted for determination of their Natural Moisture Content (NMC) and Plasticity Index (PI).

The samples tested for NMC were selected from depths between 2.00m and 27.50mbgl; 5no submitted samples were of Lowestoft Formation material, with the remaining 2no from the London Clay Formation. Results ranged between 18% and 27%.

The results within the upper Lowestoft Formation soils indicate Liquid Limits between 42-45% and Plastic Limits between 14% and 17%. Once the portion retained on the 425µm had been taken into account (6-50%), the Modified PI results lie between 14% and 28%.

The London Clay Formation soils returned results indicating Liquid Limits between 85-86% and Plastic Limits between 27% and 29%. Plasticity Index results were both recorded as 34%.

Based upon these results the Lowestoft Formation soils would be considered to be Clay of Intermediate Plasticity, whereas the London Clay Formation is classified as a Clay of Very High Plasticity. In accordance with the NHBC guidance (chapter 4.2 'Building Near Trees') the Lowestoft Formation material would be of medium shrinkage potential.

It is noted that the Lowestoft Formation soils have a reduced natural moisture content at a depth of 2.00mbgl as the NMC value is below 0.4 x Liquid Limit of the sample. Whilst not a definitive measure, this is a possible indication of soil desiccation. This may also be related to the granular content of the diamicton soils.

7.1.2. Particle Size Distribution (PSD) and Sedimentation Analysis

One disturbed sample of the granular soils from the Lowestoft Formation at 13.00mbgl were submitted for Particle Size Distribution (PSD) testing by wet sieve; classification testing to determine the percentage, range and grain sizes of soil types, with one sample scheduled for Sedimentation Analysis to determine the portion of finer particles. The table below provides a summary of the testing:

Sample Ref	Component of Sample (%)				Description
	Gravel	Sand	Silt	Clay	
BH1 13.00m	83	16	1		Sandy GRAVEL

Table 6.1: Particle Size Distribution Results

7.1.3. Shear Strength in Triaxial Compression

Five undisturbed samples of the underlying soils from depths ranging between 4.00m and 27.95mbgl were submitted for determination of undrained cohesion (cu) in triaxial compression. The following table summarises the results.

Sample Ref	Measured Cohesion (kPa)	Strength Classification
BH1 4.00m	297	Very high Strength
BH1 6.50m	210	Very High Strength
BH1 9.50m	238	Very High Strength
BH1 24.50m	265	Very High Strength
BH1 27.50m	281	Very High Strength

Table 6.2: Triaxial Compressive Strength Testing Results

7.1.4. Sulphate and pH Analysis

Seven samples of natural soils were submitted for determination of pH and Water Soluble Sulphate concentration over the depth range 1.00-28.00mbgl. Water soluble sulphate concentrations were found to range from 250mg/l to 1070mg/l, with pH levels ranging from 7.3 to 7.6.

Within the Made Ground soils, of the 38no tests the Water Soluble Sulphate ranged from 34-702mg/l, with pH found to range from 7.8-8.1m

7.2 Waste Classification Testing

38no Soil samples collected during the IGL investigation, at various locations and depths ranging 0.10m to 0.80mbgl, were submitted to a UKAS accredited laboratory for analysis against a generic contamination 'air dried' suite. This

suite included heavy metals, phenols, speciated polyaromatic hydrocarbons (PAHs), fractionated total petroleum hydrocarbons (TPHs), BTEX and MTBE compounds and an asbestos screen; chosen to reflect commonly found contaminants. Further to this, 18no samples were scheduled for Waste Acceptance Criteria (WAC) testing, Laboratory certificates are included as Appendix E.

8. WASTE SUMMARY

Results from all tested soil samples were input a soil characterisation tool (HazWasteOnline) to identify whether the materials on site have hazardous properties. Following analysis using HazWasteOnline, all soil samples reported no hazardous properties. The HazWasteOnline output is presented in Appendix E.

Following review of WAC testing and assessment using a soil characterisation tool (HazWasteOnline), the following waste classification has been designated to the respective soil samples and associated stockpiles (if relevant). It should be noted that these findings are based solely on the observations made during the works and results of laboratory testing; IGL cannot confirm the waste classification of any material outside of this scope.

Area	Sample	Laboratory Description	Hazardous/ Non Hazardous	Landfill Category
Stockpile 1	ES7	Brown Clay	Non Hazardous	Inert
	ES8			
	ES9			
	ES10			
Stockpile 2	ES1	Brown Clay with gravel	Non Hazardous	Inert
	ES2			
	ES3			
	ES4			
	ES5			
	ES6			
Stockpile 3	ES11	Brown sandy clay with gravel and asphalt	*Non Hazardous	Inert
Site	ES13	Brown Clay	Non Hazardous	Inert
Site	ES17	Brown clayey sand with gravel	Non Hazardous	Non Hazardous – due to leachable sulphate
Site	ES20	Brown Clay	Non Hazardous	Non Hazardous – due to leachable fluoride
Site	ES27	Brown clayey sand with gravel	Non Hazardous	Inert

Site	ES31	Brown Clay	Non Hazardous	Inert
Site	ES33	Brown clayey sand with gravel	Non Hazardous	Inert
Site	ES36	Brown clayey sand with gravel	Non Hazardous	Inert

(*) Non Hazardous following macadam/asphalt removal.

The waste classification is based on the tested material, if other material is encountered (outside of those identified within the investigation), then this will need separate testing/classification. Classification of the materials for disposal will depend on the acceptability of the elevated concentrations from the accepting waste facility, with regard to the EA regional office regulating that facility.

If disposal is the desired option, it is likely that Stockpile 1 and Stockpile 2 can be disposed at an Inert landfill. Whilst Stockpile 3 has been characterised as Non-Hazardous, an abundance of macadam/asphalt was noted within the material. Consequently, it is recommended that this macadam/asphalt is removed prior to disposal and tested separately for coal tar.

The results of laboratory testing, along with the descriptions within this report, should be forwarded to the accepting waste facility. All waste materials will need to be properly handled and disposed of in accordance with the Landfill Directive and other relevant legislation. Details of how the materials are stored, to ensure no mixing, should be documented. It may be prudent to carry out additional testing on materials, when they are being excavated and loaded are conducted, to attempt to delineate non-hazardous and inert materials. Due to the potential mixing of soils during groundworks further WAC testing may be appropriate on stockpiles prior to removal from site.

9. DISCUSSION OF GROUND CONDITIONS

Current proposals are for the construction of a new data centre building on site; it is expected that structural loads will be considerable and a piled foundation is understood to be the preferred option.

9.1 Soil Engineering Properties

The following section discusses the key engineering properties of each encountered stratum as identified within the investigation and laboratory testing.

9.1.1. Made Ground

Emplaced demolition rubble was encountered to a depth of 0.15mbgl, overlying asphalt and a subbase of clay and gravel to a depth of 0.35mbgl.

9.1.2. Lowestoft Formation

This stratum was generally encountered as a very stiff consistency dark grey speckled white slightly gravelly, slightly sandy Clay. It is noted that the gravel component decreased in frequency with depth. This material was encountered in a weathered condition as a stiff consistency brown / grey mottled Clay to a depth of 4.20mbgl.

Insitu Standard Penetration Testing indicates that this stratum is initially encountered in a stiff condition, below very stiff below 3.00mbgl and showing a generally increasing trend with depth.

This cohesive material has returned results suggesting an Intermediate plasticity Clay soil from Index properties testing, with laboratory strength determination results indicative of Very High strength Clay soils.

The initial NMC result at 2.00mbgl is noted to indicate reduced moisture content which may be associated with granular content but may also be a function of the overconsolidated nature of the material.

Over the depth range 12.00-15.00mbgl, this stratum was encountered as a medium dense brown sandy Gravel of flint. Insitu testing results confirm the logging engineer's assessment of the soil, with the results of laboratory testing considered to be generally congruent with the hand specimen description.

9.1.3. London Clay Formation

The bedrock geology of the London Clay Formation was encountered below 23.30mbgl and was described as very stiff consistency dark grey Clay with medium to widely spaced subvertical fissuring.

Insitu testing in this soil indicates very stiff consistency, with the results of laboratory strength determination considered representative of very high strength cohesive soils.

Index properties testing on this material indicates that it would be classified as very highly plastic clay.

9.1.4. Groundwater

Groundwater was encountered within the borehole at a depth of 12.20mbgl, rising to 11.50mbgl after 20mins. It was noted that several of the environmental sampling locations suffered from standing water at or near ground level, likely due to water perched within the upper reworked deposits.

10. CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations have been made based on the investigation undertaken to date in light of the outlined proposals. Any alterations to the proposals may warrant a reassessment.

10.1 Deep Foundations

A piled foundation is proposed to be utilised for the new development. Once the full development design and layouts including anticipated loads are known it is recommended that a specialist piling contractor is consulted to confirm the most appropriate design and construction method for a piling solution.

Given that the soils at this depth are overconsolidated and therefore showing low natural moisture contents, there is an increased chance of heave. Consequently it is recommended that a void former/ clay heave barrier is used beneath the ground floor slab. It may be that the floor slab may require the use of tension piles, ground anchors or an engineered floor slab; however this should be designed by a structural engineer.

The following table (over page) provides soil parameters for pile designs only:

Depth	Material	Soil Unit Weight (kN/m^3)	Average Undrained Cohesion (kN/m^2)	Angle of Internal Friction (ϕ)	Adhesion Factor
GL-0.35m	Made Ground	17-18	-	-	-
0.35m-12.00m & 15.00-23.30m	Lowestoft Formation - High Strength Clay	21-22	210-295	-	-
12.00-15.00m	Lowestoft Formation – Sand Gravel	20-21	-	33-34	-
23.30-30.00m	London Clay Formation - Very Stiff grey Clay	20-21	260-280	-	0.45

Table 10.1: Soil parameters for pile design purposes

It is possible that pile groups may be required as part of final pile designs. The total working loads of a pile group may be considerably less than the separate totals combined, as a result of interaction of the piles.

The ground conditions should be assessed prior to pilling for piling mat designs, particularly where soft/ loose soils or Made Ground soils are encountered. Claystone bands noted during the drilling should be brought to the piling contractors' attention.

Compressible material should be incorporated around the sides ground beams where applicable; in accordance with NHBC guidance. Pile sleeving should also be considered within the shrinkable soils around the zone of tree root influence.

10.2 Floor Slabs

The floor slab design will depend on the final foundation designs and is dependent on the underlying materials, including bearing capacity and the presence of any cohesive or Made Ground Soils.

Given the presence of the overconsolidated medium shrinkage potential soils encountered, it would be recommended that a fully suspended floor slab is used in order to account for these factors; the advice of the NHBC guidelines should be adhered to in the design of such a floor.

Alternatively, an engineered floor slab may be considered, however this must account for potential soil volume changes, and may possibly require the use of tension piles

10.3 Excavations and Groundwater

It is possible that excavations of less than 1.20mbgl may require support to their faces due to the variable soil conditions encountered. Should excavations be taken below this then adequate support should be provided in order to satisfy statutory safety regulations, particularly where manned entry is required, and groundwater was encountered.

Groundwater was encountered within the borehole at a depth of 12.20mbgl, rising to 11.50mbgl after 20mins and several of the environmental sampling locations were noted to have standing water at or near ground level which is likely due to water perched within the upper reworked deposits.

Groundwater levels vary throughout the year based upon seasonal changes in rainfall and tree root uptake; the levels revealed by this investigation may not be reflective of those at other times of the year. Open excavations are very likely to suffer from the pooling of surface water during groundworks.

If groundwater is identified within any of the excavations during the construction phase then it should be dealt with appropriately and removed using good engineering practices.

10.4 Retaining Structures

The following moderately conservative values may be utilised in the design of any temporary retaining structures.

Material	Effective angle of friction (ϕ')	Effective Cohesion; c' (kPa)	Bulk Density kN/m^3
Made Ground	24	0	17-18
Lowestoft Formation - Clay	26-27	0	20-21

Table 10.2: Retaining Wall Parameters

10.5 Aggressive Chemical Environment to Concrete

Maximum Sulphate concentrations within the Made Ground and Natural soils were found to be 1070g/l, with minimum pH levels of from 7.3 suggesting that a design class of DS-2 and a sub class of AC-3 should be adopted for buried concrete structures within these soils (Reference made to current BRE SD1 Guidelines).

APPENDICES

Appendix A – Site Plan

Appendix B – Stratigraphic Logs / Environmental Sample Details

Appendix C – Photographs

Appendix D – Laboratory Certificates

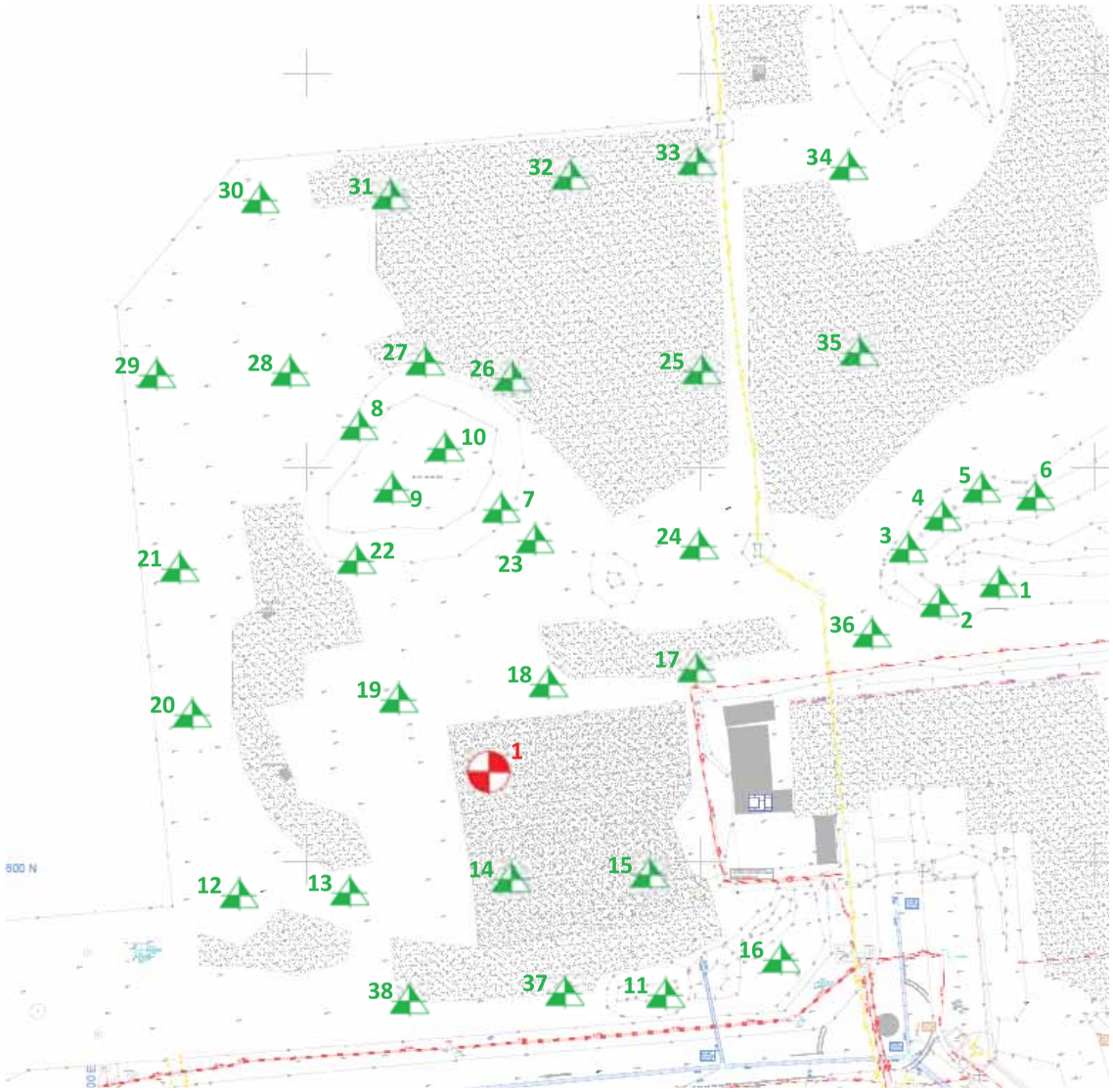
Appendix E – HazWaste Online Output

IMPACT GEOTECHNICAL

APPENDIX A

Site Plan

IMPACT GEOTECHNICAL



Notes:
1. Do not scale from this drawing.
2. All dimensions must be checked on site prior to commencement of work.
3. Where applicable this drawing is to be read in conjunction with other consultants drawings.
4. This drawing is the copyright of Impact Geotechnical Ltd.

Drawing Title:

Hole Location Plan

Site Name:

KAO Data

BH1

ES1-38

Project Reference:

P21.242

Revision: 0
Drawn by: GC
Scale: Not to Scale

IMPACT GEOTECHNICAL

APPENDIX B

Stratigraphic Logs / Environmental Samples Detail

IMPACT GEOTECHNICAL

Percussion Drilling Log

Project Name: KAO Data Centre	Client: JCA Engineering Limited	Date: 26/10/2021 - 27/10/2021
Location: Harlow, Essex	Contractor: IGL	Co-ords: E210052.37 N547025.44
Project No. : P21.242	Crew Name: ISJ	Drilling Equipment: Dando 175 CP Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP	75.50m AoD	GC	1:50	Sheet 1 of 3

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15	75.35		MADE GROUND Light brown gravelly Sand. Gravel is subangular to subrounded, fine to coarse sized brick, concrete, flint. Sand is fine to coarse.
					0.20	75.30		Asphalt
		0.50	D		0.35	75.15		MADE GROUND Dark grey slightly sandy gravelly Clay. Sand is fine to coarse. Gravel is subangular to subrounded, medum to coarse sized concrete and limestone.
		1.00	D					Stiff consistency brown mottled pale grey and grey locally slightly gravelly slightly sandy silty CLAY. Sand is fine. Gravel is subrounded to rounded, fine to coarse sized chalk and rarely flint. (LOWESTOFT FORMATION)
		1.20 - 1.65	SPTL S					
		1.20	SPT	N=13 (1,2/2,3,4,4)				
		2.00	D					
		2.00 - 2.45	SPTL S					
		2.00	SPT	N=19 (1,2/3,4,7,5)				
		3.00	D					
		3.00 - 3.45	SPTL S					
		3.00	SPT	N=19 (1,2/3,4,5,7)				
		4.00	D					
		4.00 - 4.45	U		4.20	71.30		Very stiff consistency dark grey speckled white slightly gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is subrounded to rounded medium to coarse sized chalk. (LOWESTOFT FORMATION)
		4.50	D					
		5.00	D					
		5.00 - 5.45	SPTL S					
		5.00	SPT	N=27 (2,3/5,6,7,9)				
		6.00	D					
		6.50 - 6.95	U					
		7.00	D					
		8.00	D					
		8.00 - 8.45	SPTL S					
		8.00	SPT	N=31 (2,3/4,7,9,11)				
		9.00	D					
		9.50 - 9.95	U					
		10.00	D					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Buried Services clearance pit to 1.00mbgl. Groundwater encountered at 12.20mbgl, rising to 11.50mbgl after 20mins. Backfilled with arisings on completion.

Percussion Drilling Log

Project Name: KAO Data Centre	Client: JCA Engineering Limited	Date: 26/10/2021 - 27/10/2021
Location: Harlow, Essex	Contractor: IGL	Co-ords: E210052.37 N547025.44
Project No. : P21.242	Crew Name: ISJ	Drilling Equipment: Dando 175 CP Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP	75.50m AoD	GC	1:50	Sheet 2 of 3

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		11.00	D					Very stiff consistency dark grey speckled white slightly gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is subrounded to rounded medium to coarse sized chalk. (LOWESTOFT FORMATION)
		11.00 - 11.45	SPTLS					
	▼	11.00	SPT	N=39 (2,5/7,7,11,14)				
		12.00	D		12.00	63.50		
		12.50 - 12.95	SPTLS					Medium dense brown sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to rounded medium to coarse sized flint. (LOWESTOFT FORMATION)
		12.50	SPT	N=15 (2,2/3,3,4,5)				
		13.00	D					
		14.00	D					
		14.00 - 14.45	SPTLS					
		14.00	SPT	N=15 (2,2/3,3,4,5)				
		15.00	D		15.00	60.50		
		15.50 - 15.95	SPTLS					Very stiff consistency dark grey slightly sandy silty CLAY. Frequent scattered subrounded to rounded, medium to coarse sized gravel of chalk. Sand is fine to coarse. (LOWESTOFT FORMATION)
		15.50	SPT	N=41 (3,5/7,9,9,16)				
		16.00	D					
		17.00	D					
		17.00 - 17.45	SPTLS					
		17.00	SPT	N=39 (3,5/6,8,11,14)				
		18.00	D					
		18.50 - 18.95	B					
		19.00	D					
		20.00	D					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Buried Services clearance pit to 1.00mbgl. Groundwater encountered at 12.20mbgl, rising to 11.50mbgl after 20mins. Backfilled with arisings on completion.

Percussion Drilling Log

Project Name: KAO Data Centre	Client: JCA Engineering Limited	Date: 26/10/2021 - 27/10/2021
Location: Harlow, Essex	Contractor: IGL	Co-ords: E210052.37 N547025.44
Project No. : P21.242	Crew Name: ISJ	Drilling Equipment: Dando 175 CP Rig

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP	75.50m AoD	GC	1:50	Sheet 3 of 3

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00 - 20.45	SPTLS					Very stiff consistency dark grey slightly sandy silty CLAY. Frequent scattered subrounded to rounded, medium to coarse sized gravel of chalk. Sand is fine to coarse. (LOWESTOFT FORMATION)
		20.00	SPT	N=50 (3,7/50 for 285mm)				
		21.00	D					
		21.50 - 21.95	SPTLS					
		21.50	SPT	N=39 (2,4/7,7,11,14)				
		22.00	D					
		23.00	D					
		23.00 - 23.45	SPTLS		23.30	52.20		
		23.00	SPT	N=47 (5,7/9,11,13,14)				Very Stiff consistency fissured dark grey CLAY. Fissures are medium to widely spaced and subvertical (LONDON CLAY FORMATION)
		24.00	D					
		24.50 - 24.95	U					
		25.00	D					
		26.00	D					
		26.00 - 26.45	SPTLS					
		26.00	SPT	N=49 (5,8/11,12,12,14)				
		27.00	D					
		27.50 - 27.95	U					
		28.00	D					
		29.00	D					
		29.00 - 29.45	SPTLS					
		29.00	SPT	N=46 (7,9/10,11,11,14)				
		30.00	D		30.00	45.50		End of Borehole at 30.000m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Buried Services clearance pit to 1.00mbgl. Groundwater encountered at 12.20mbgl, rising to 11.50mbgl after 20mins. Backfilled with arisings on completion.

Sample Ref	Depth	Northing	Easting	Elevation	Depth Base (m)
SH2 ES1	N/A	547080.85	210082.98	76.72	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete. Rare fibre optic cable.
SH2 ES2	N/A	547076.76	210085.75	77.459	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete.
SH2 ES3	N/A	547076.66	210089.85	77.052	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete. Rare fibre optic cable.
SH2 ES4	N/A	547079.66	210092.46	77.331	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete.
SH2 ES5	N/A	547083.17	210094.17	77.339	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete.
SH2 ES6	N/A	547085.86	210094.32	77.811	MADE GROUND brown slightly gravelly to gravelly slightly sandy to sandy silty Clay. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse sized chalk, rarely brick. Occasional cobble sized brick and concrete. Scatered aluminium and wire fragments.
SH1 ES7	N/A	547018.77	210091.16	76.756	MADE GROUND Non-homogenous brown grey sandy clayey Gravel / gravelly Clay. Sand is medium to coarse. Gravel is subangular to subrounded, medium to coarse sized concrete, brick, granite. Sand is medium to coarse. Bands of reworked Type 1.
SH1 ES8	N/A	547007.51	210106.32	77.125	MADE GROUND Non-homogenous brown and grey very clayey sandy Gravel. Frequent cobbles of concrete and brick, rare plastic, metal, wood, rags, clinker, asphalt. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone and concrete.
SH1 ES9	N/A	547007.58	210100.07	77.899	MADE GROUND Non-homogenous brown grey sandy clayey Gravel / gravelly Clay. Sand is medium to coarse. Gravel is subangular to subrounded, medium to coarse sized concrete, brick, granite. Sand is medium to coarse. Bands of reworked Type 1. Rare Asphalt fragments.
SH1 ES10	N/A	547017.77	210102.45	78.213	MADE GROUND Non-homogenous brown grey sandy clayey Gravel / gravelly Clay. Sand is medium to coarse. Gravel is subangular to subrounded, medium to coarse sized concrete, brick, granite. Sand is medium to coarse. Bands of reworked Type 1. Rare Asphalt fragments. Organic material at base.
SH3 ES11	N/A	547043.04	210034.43	75.668	MADE GROUND Non-homogenous light brown and brown mottled clayey gravelly Sand / sandy clayey Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized brick, asphalt (3-5%), concrete. Rare cobble to boulder sized asphalt.
ES12	0.20	546991.07	210045.32	75.593	MADE GROUND light brown slightly sandy slightly gravelly Clay. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized brick, concrete, chalk, flint.
ES13	0.40	547010.12	210047.17	75.478	MADE GROUND brown slightly sandy slightly gravelly Clay. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized brick, concrete, chalk, flint. Rare boulder sized concrete.
ES14	0.40	547030.55	210047.13	75.107	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES15	0.15	547048.90	210048.14	75.484	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES16	0.20	547061.03	210041.03	75.511	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick. Frequent cobbles of concrete.
ES17	0.10	547045.86	210074.16	76.214	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES18	0.05	547023.06	210072.81	76.288	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES19	0.10	547003.92	210071.98	75.984	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES20	0.50	546983.78	210070.00	75.776	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES21	0.30	546983.16	210088.28	76.198	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES22	0.20	547005.28	210087.70	76.584	MADE GROUND light brown sandy gravelly Clay. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sized flint, chalk, limestone, brick.
ES23	0.10	547027.49	210088.21	76.767	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES24	0.20	547045.48	210089.66	76.657	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES25	0.50	547050.65	210108.89	76.592	MADE GROUND grey brown mottled slightly gravelly slightly sandy silty Clay. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse sized chalk, flint and brick.

Sample Ref	Depth	Northing	Easting	Elevation	Depth Base (m)
ES26	0.30	547027.65	210111.77	76.645	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick. Cobble sized brick and metal.
ES27	0.10	547018.97	210110.21	76.579	MADE GROUND Grey black sligthly organic slightly gravelly sandy silty Clay. Sand is fine to coarse. Gravel is subangular to subrounded, medium to coarse sized chalk, brick, concrete. Occasional wood, plastic, rubber. Mild organic / sulphur odour. Rare metal fragments.
ES28	0.40	547007.70	210114.05	76.574	MADE GROUND Grey black sligthly organic slightly gravelly sandy silty Clay. Sand is fine to coarse. Gravel is subangular to subrounded, medium to coarse sized chalk, brick, concrete. Mild organic / sulphur odour. Frequent organic matter
ES29	0.50	546984.46	210114.97	76.522	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES30	0.40	546990.03	210133.03	76.193	MADE GROUND brown slightly sandy slightly gravelly Clay. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized brick, concrete, chalk, flint. Rare boulder sized concrete.
ES31	0.70	547009.27	210130.27	76.337	MADE GROUND Grey black sligthly organic slightly gravelly sandy silty Clay. Sand is fine to coarse. Gravel is subangular to subrounded, medium to coarse sized chalk, brick, concrete. Mild organic / sulphur odour. Frequent organic matter
ES32	0.10	547027.78	210132.37	76.788	MADE GROUND light brown gravelly Sand. Gravel is subangular to subrounded, fine to coarse sized brick, concrete. Rare plastic and wire fragments.
ES33	0.40	547047.91	210133.57	77.172	MADE GROUND light brown gravelly Sand. Gravel is subangular to subrounded, fine to coarse sized brick, concrete. Rare plastic and wire fragments. Frequent cobble sized concrete sized concrete and brick.
ES34	0.30	547066.54	210133.21	76.824	MADE GROUND reworked brown slightly gravelly sandy Clay. Gravel is subangular to subrounded, medium to coarse sized brick, flint, chalk, concrete. Sand is fine.
ES35	0.10	547071.41	210109.96	76.202	MADE GROUND light brown gravelly Sand. Gravel is subangular to subrounded, fine to coarse sized brick, concrete. Rare plastic and wire fragments. Frequent cobble sized concrete sized concrete and brick.
ES36	0.05	547061.44	210075.59	76.23	MADE GROUND greyish brown gravelly Sand. Sand is fine to coarse. Gravel is subangular to subrounded, medium to coarse sized limestone and rarely brick.
ES37	0.20	547023.05	210033.17	75.327	MADE GROUND brown sandy Gravel. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse sized limestone, asphalt, brick.
ES38	0.80	547002.31	210030.99	75.03	MADE GROUND Grey black sligthly organic slightly gravelly sandy silty Clay. Sand is fine to coarse. Gravel is subangular to subrounded, medium to coarse sized chalk, brick, concrete. Mild organic / sulphur odour. Frequent organic matter

APPENDIX C

Photographs

IMPACT GEOTECHNICAL

1.

2.

3.

4.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

1. BH1
2. ES1.
3. ES2
4. ES3.

IMPACT GEOTECHNICAL

5.

6.

7.

8.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

5. ES4
6. ES5.
7. ES6
8. ES7

IMPACT GEOTECHNICAL

9.

10.

11.

12.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

9. ES8
10. ES9.
11. ES10
12. ES11.

IMPACT GEOTECHNICAL

13.

14.

15.

16.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

13. ES12
14. ES13.
15. ES15
16. ES16

IMPACT GEOTECHNICAL

17.

18.

19.

20.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

17. ES17
18. ES18
19. ES19
20. ES20

IMPACT GEOTECHNICAL

21.

22.

23.

24.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

21. ES21
22. ES22.
23. ES23
24. ES24.

IMPACT GEOTECHNICAL

25.

26.

27.

28.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

25. ES25
26. ES26.
27. ES27
28. ES28.

IMPACT GEOTECHNICAL

29.

30.

31.

32.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

29. ES29
30. ES30.
31. ES31
32. ES32.

IMPACT GEOTECHNICAL

33.

34.

35.

36.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

33. ES33
34. ES34
35. ES35
36. ES36

IMPACT GEOTECHNICAL

37.

38.

Investigation Photographs

Project Ref: P21.242

Site Name: KAO Data

37. WS1 0-1mbgl
38. WS1 1-2mbgl.
39. WS20-1mbgl.
40. WS3 0-1mbgl.

IMPACT GEOTECHNICAL

APPENDIX D

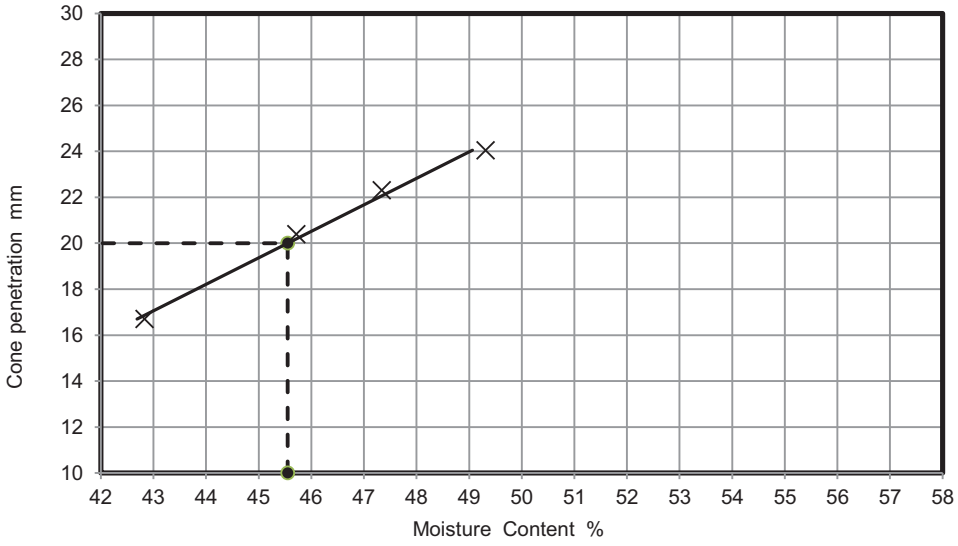
Laboratory Certificates

IMPACT GEOTECHNICAL

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	2.00 m
Soil Description	Greyish brown and brownish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to sub-rounded)			Depth Base	- m
				Sample Type	D
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

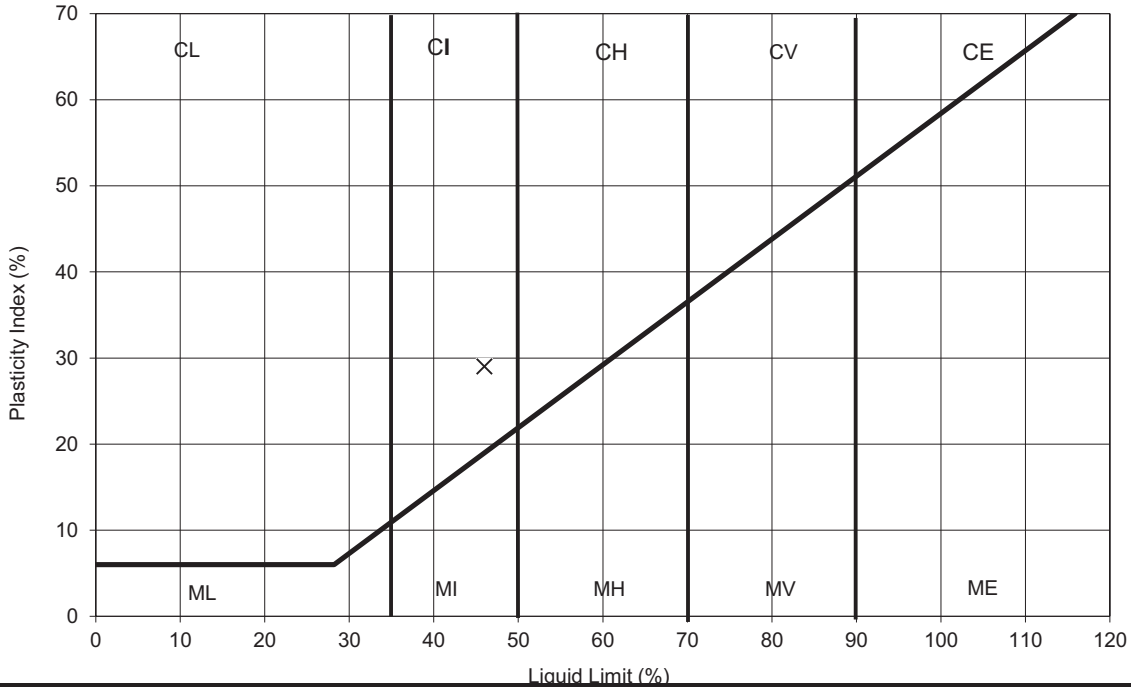
Job No.	30961
Borehole/Pit No.	BH1



NATURAL MOISTURE CONTENT	**18**	**%**
% PASSING 425µm SIEVE	**94**	**%**
LIQUID LIMIT	**46**	**%**
PLASTIC LIMIT	**17**	**%**
PLASTICITY INDEX	**29**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

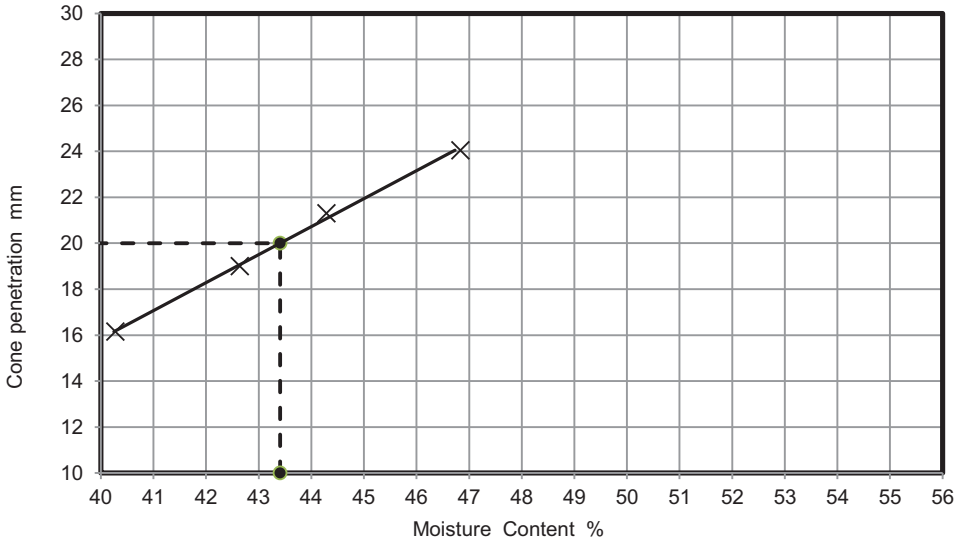
Initials: J.P
Date: 19/11/2021

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	4.00 m
Soil Description	Very high strength grey slightly gravelly silty CLAY with occasional pockets of orange silt, rare sandstone fragments and flint gravel (gravel is fmc and sub-rounded to sub-angular chalk gravel)			Depth Base	4.45 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

Job No. 30961

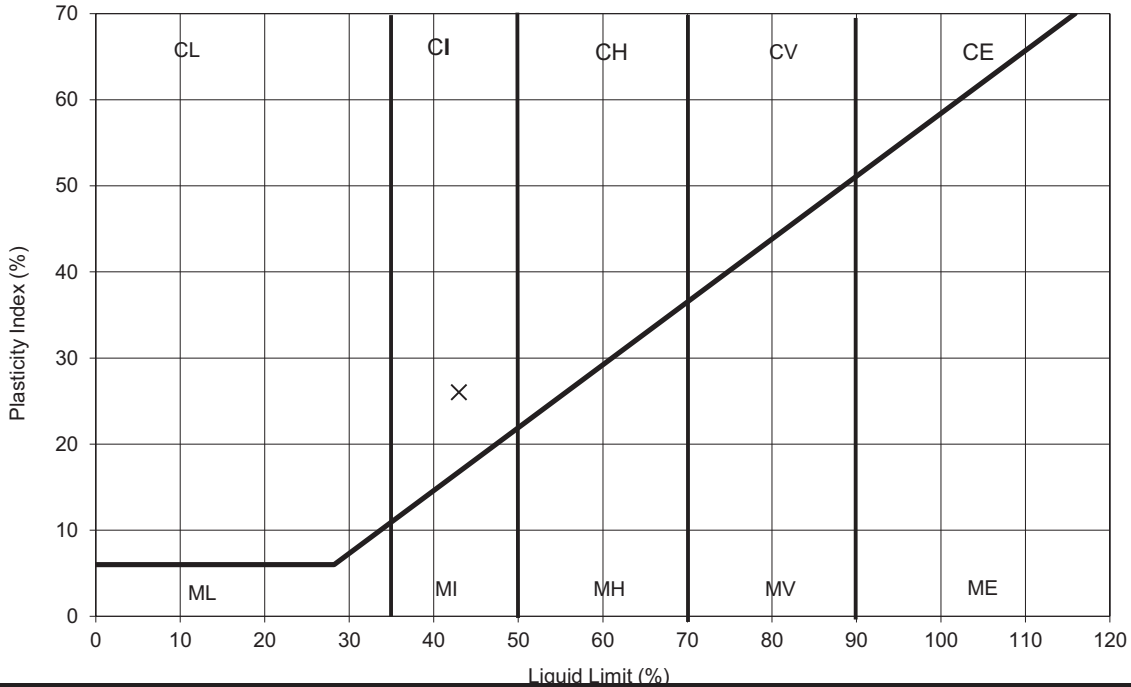
Borehole/Pit No. BH1



NATURAL MOISTURE CONTENT	**15**	**%**
% PASSING 425µm SIEVE	**75**	**%**
LIQUID LIMIT	**43**	**%**
PLASTIC LIMIT	**17**	**%**
PLASTICITY INDEX	**26**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 19/11/2021

UKAS TESTING

2519

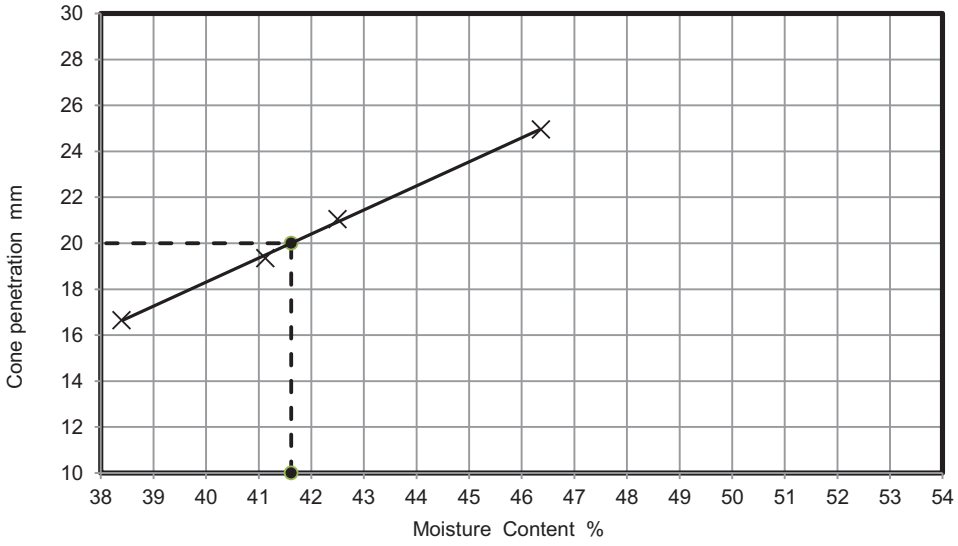
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	9.50 m
Soil Description	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks and chalk fragments (gravel is fmc and sub-rounded chalk gravel)			Depth Base	9.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

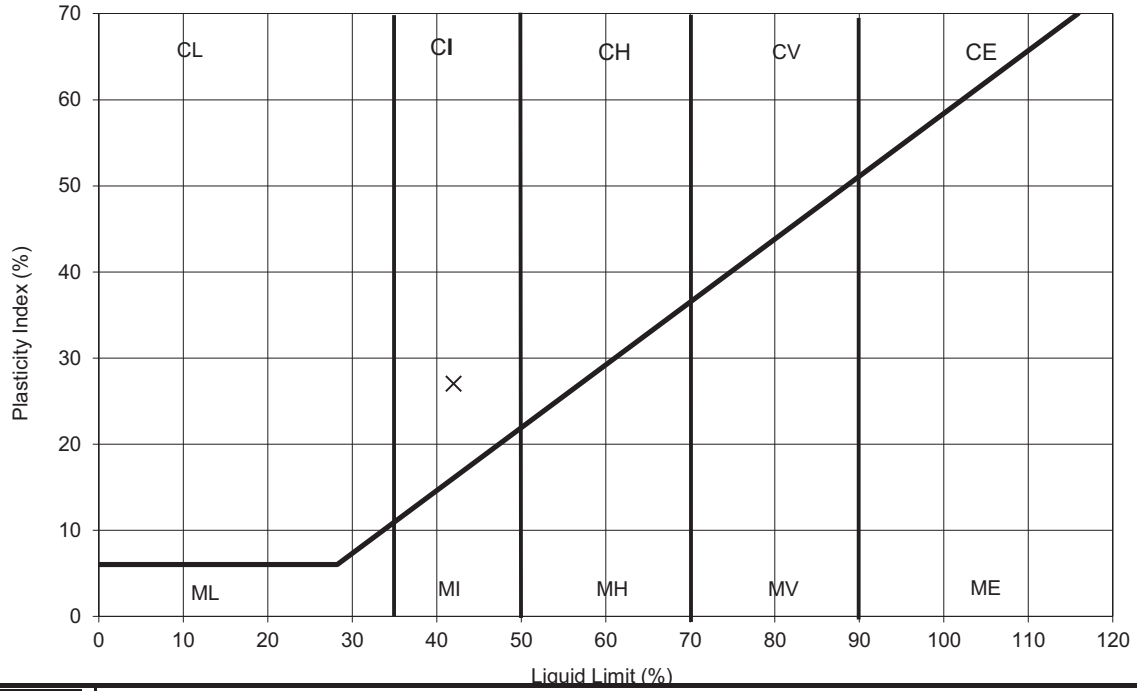
Job No.	30961
Borehole/Pit No.	BH1



NATURAL MOISTURE CONTENT	**14**	**%**
% PASSING 425µm SIEVE	**50**	**%**
LIQUID LIMIT	**42**	**%**
PLASTIC LIMIT	**15**	**%**
PLASTICITY INDEX	**27**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

Checked and Approved

Initials: J.P
Date: 19/11/2021

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

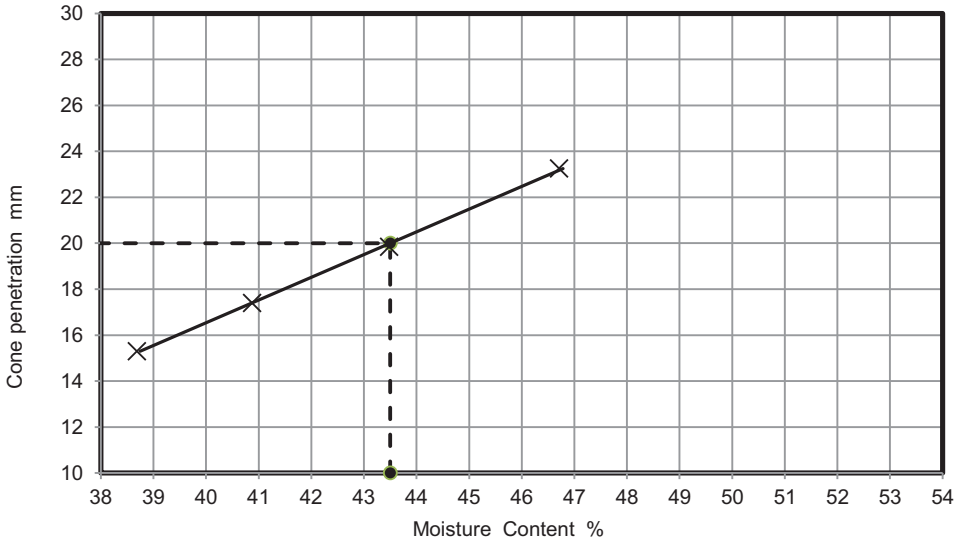
UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	16.00 m
Soil Description	Dark grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to sub-rounded chalk gravel)			Depth Base	- m
				Sample Type	D
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

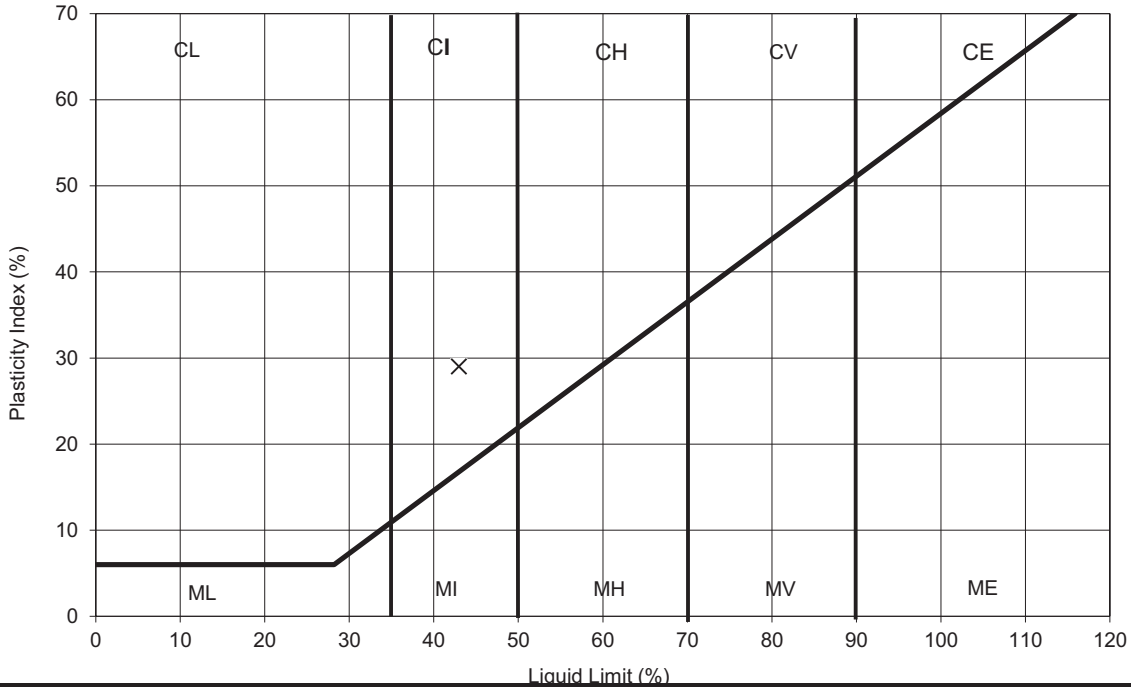
Job No.	30961
Borehole/Pit No.	BH1



NATURAL MOISTURE CONTENT	**15**	**%**
% PASSING 425µm SIEVE	**94**	**%**
LIQUID LIMIT	**43**	**%**
PLASTIC LIMIT	**14**	**%**
PLASTICITY INDEX	**29**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

Checked and Approved

Initials: J.P
Date: 19/11/2021

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

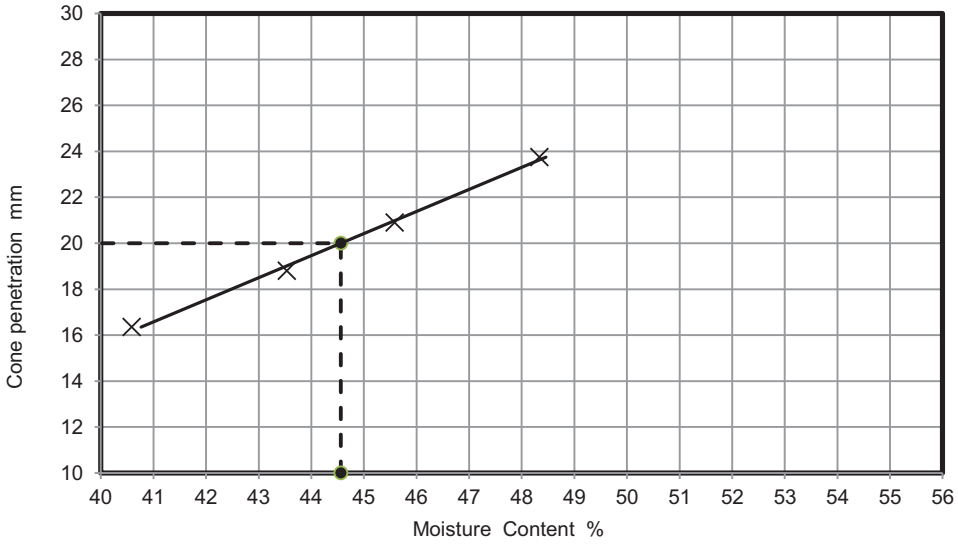
UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	18.50 m
Soil Description	Grey slightly gravelly silty CLAY with occasional fine chalk fragments (gravel is fm and rounded to sub-angular)			Depth Base	18.95 m
				Sample Type	B
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

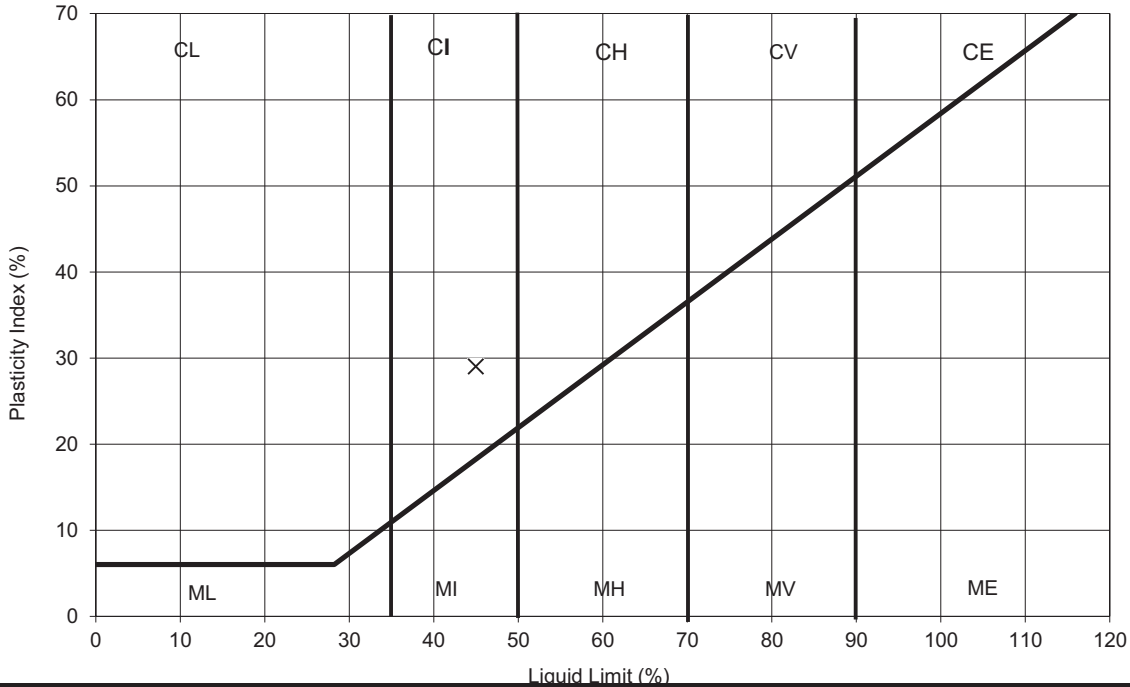
Job No.	30961
Borehole/Pit No.	BH1



NATURAL MOISTURE CONTENT	**17**	**%**
% PASSING 425µm SIEVE	**82**	**%**
LIQUID LIMIT	**45**	**%**
PLASTIC LIMIT	**16**	**%**
PLASTICITY INDEX	**29**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

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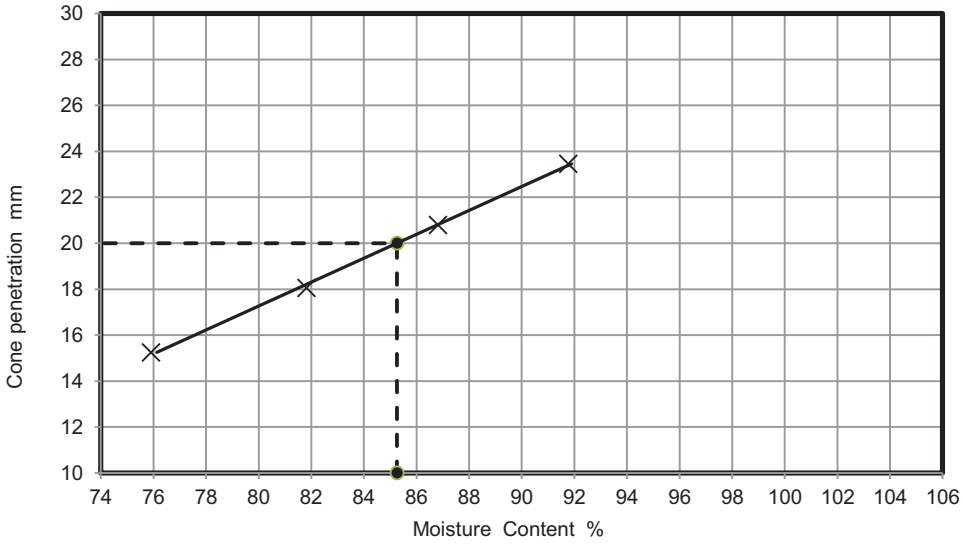
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

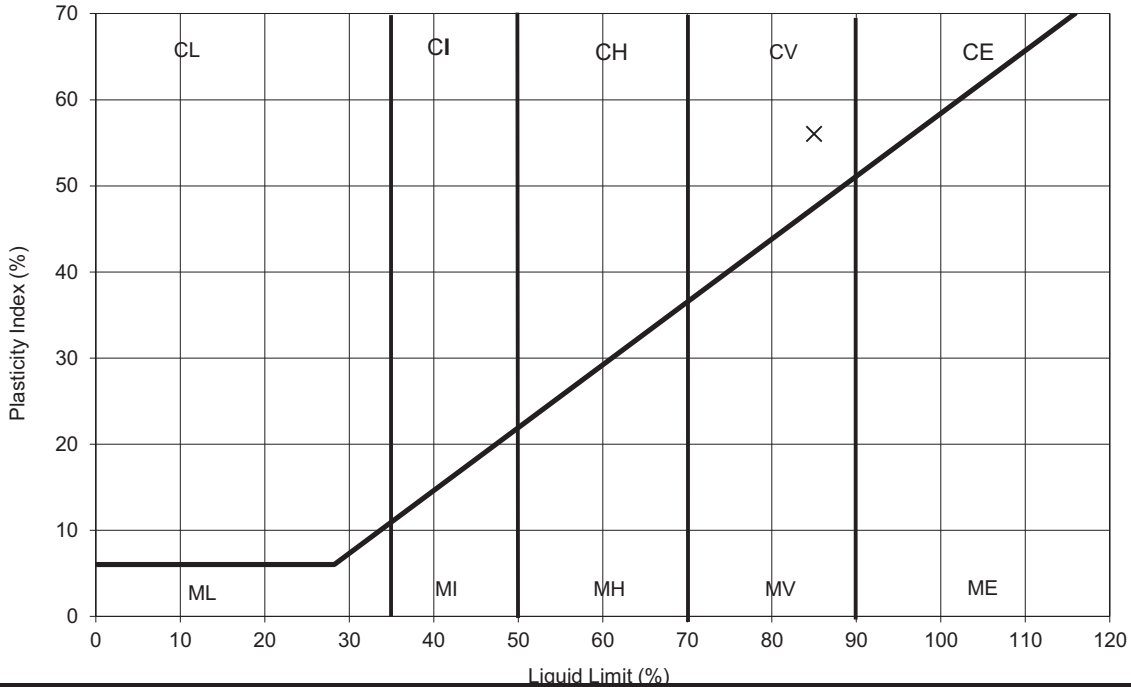
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	24.50 m
Soil Description	Very high strength grey silty CLAY			Depth Base	24.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021
Job No.	30961				
Borehole/Pit No.	BH1				



NATURAL MOISTURE CONTENT	**26**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**85**	**%**
PLASTIC LIMIT	**29**	**%**
PLASTICITY INDEX	**56**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

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BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

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UKAS TESTING 2519

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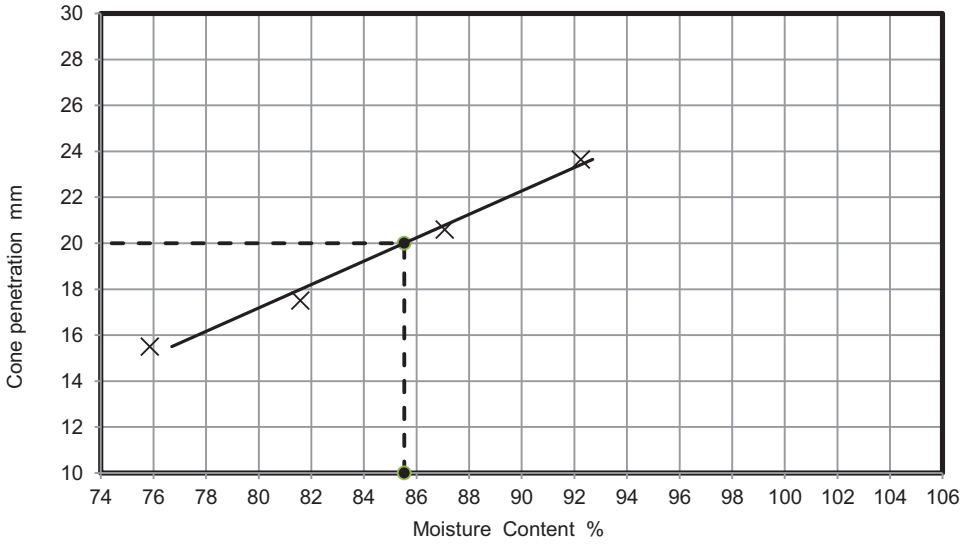
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	27.50 m
Soil Description	Very high strength slightly fissured grey silty CLAY			Depth Base	27.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
				Project Started	01/11/2021
				Date Tested	16/11/2021

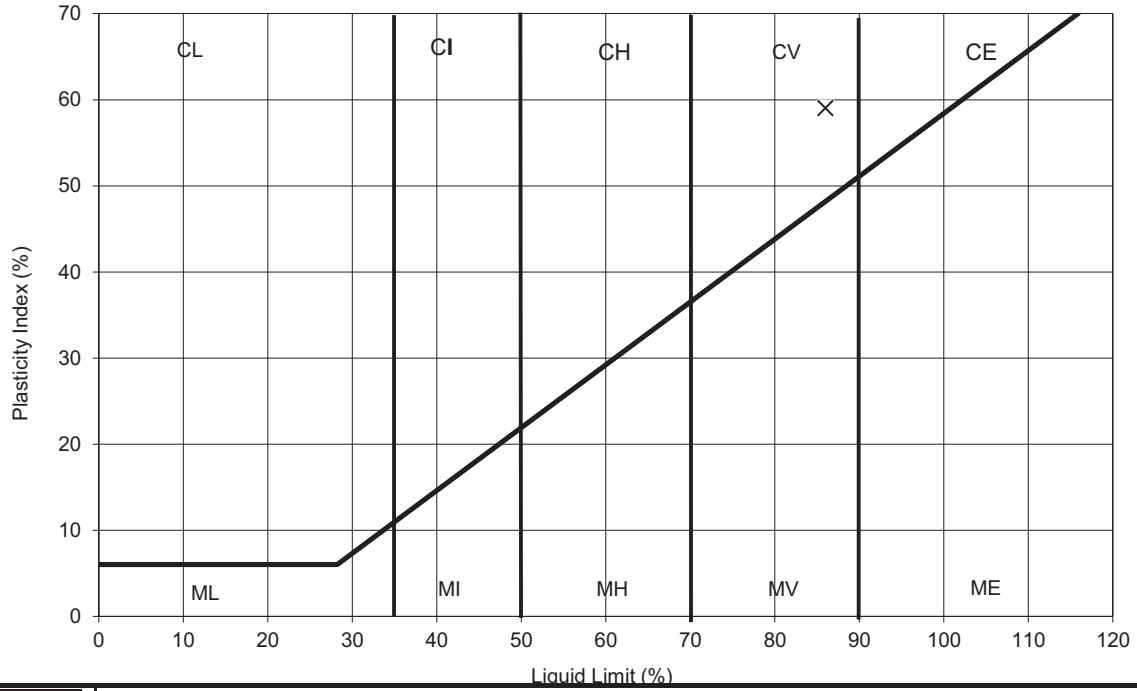
Job No.	30961
Borehole/Pit No.	BH1



NATURAL MOISTURE CONTENT	**27**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**86**	**%**
PLASTIC LIMIT	**27**	**%**
PLASTICITY INDEX	**59**	**%**

Remarks

PLASTICITY INDEX



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BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying method

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Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
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UKAS TESTING

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
30961	KAO Data	Samples received	29/10/2021
		Schedule received	31/10/2021
Project No.	Client	Project started	01/11/2021
P21.242	Impact Geotechnical	Testing Started	16/11/2021

Hole No.	Sample				Soil Description	NMC	Passing 425µm	LL	PL	PI	Remarks
	Ref	Top m	Base m	Type		%	%	%	%	%	
BH1	-	2.00	-	D	Greyish brown and brownish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to sub-rounded)	18	94	46	17	29	
BH1	-	4.00	4.45	U	Very high strength grey slightly gravelly silty CLAY with occasional pockets of orange silt, rare sandstone fragments and flint gravel (gravel is fmc and sub-rounded to sub-angular chalk gravel)	15	75	43	17	26	
BH1	-	9.50	9.95	U	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks and chalk fragments (gravel is fmc and sub-rounded chalk gravel)	14	50	42	15	27	
BH1	-	16.00	-	D	Dark grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to sub-rounded chalk gravel)	15	94	43	14	29	
BH1	-	18.50	18.95	B	Grey slightly gravelly silty CLAY with occasional fine chalk fragments (gravel is fm and rounded to sub-angular)	17	82	45	16	29	
BH1	-	24.50	24.95	U	Very high strength grey silty CLAY	26	100	85	29	56	
BH1	-	27.50	27.95	U	Very high strength slightly fissured grey silty CLAY	27	100	86	27	59	

UKAS TESTING
2519

Test Methods: BS1377: Part 2: 1990:
Natural Moisture Content : clause 3.2
Atterberg Limits: clause 4.3, 4.4 and 5.0

Test Report by K4 SOILS LABORATORY
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Checked and Approved

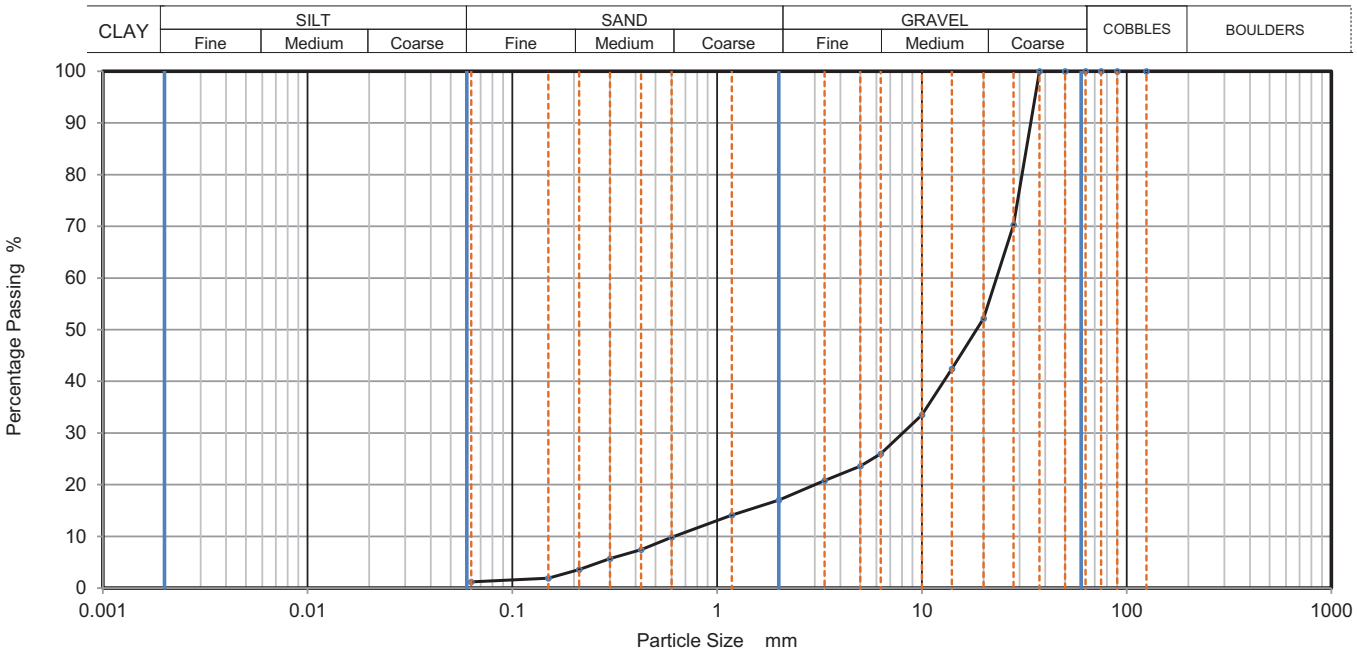
Initials **J.P**

Date: 19/11/2021

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

PARTICLE SIZE DISTRIBUTION

Site Name	KAO Data			Job Ref	30961
				Borehole/Pit No.	BH1
Project No.	P21.242	Client	Impact Geotechnical	Sample No.	-
				Depth Top	13.00 m
Soil Description	Light grey slightly clayey sandy GRAVEL (gravel is fmc and sub-angular to sub-rounded)			Depth Base	- m
				Sample Type	D
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	01/11/2021
These results only apply to the items tested				Date tested	17/11/2021



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	70		
20	52		
14	42		
10	34		
6.3	26		
5	24		
3.35	21		
2	17		
1.18	14		
0.6	10		
0.425	7		
0.3	6		
0.212	4		
0.15	2		
0.063	1		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	83.0
Sand	15.8
Fines <0.063mm	1.2

Grading Analysis		
D100	mm	
D60	mm	23.1
D30	mm	8.06
D10	mm	0.616
Uniformity Coefficient		37
Curvature Coefficient		4.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU
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Tel: 01923 711288

Checked and Approved

Initials: **J.P**

Date: 19/11/2021

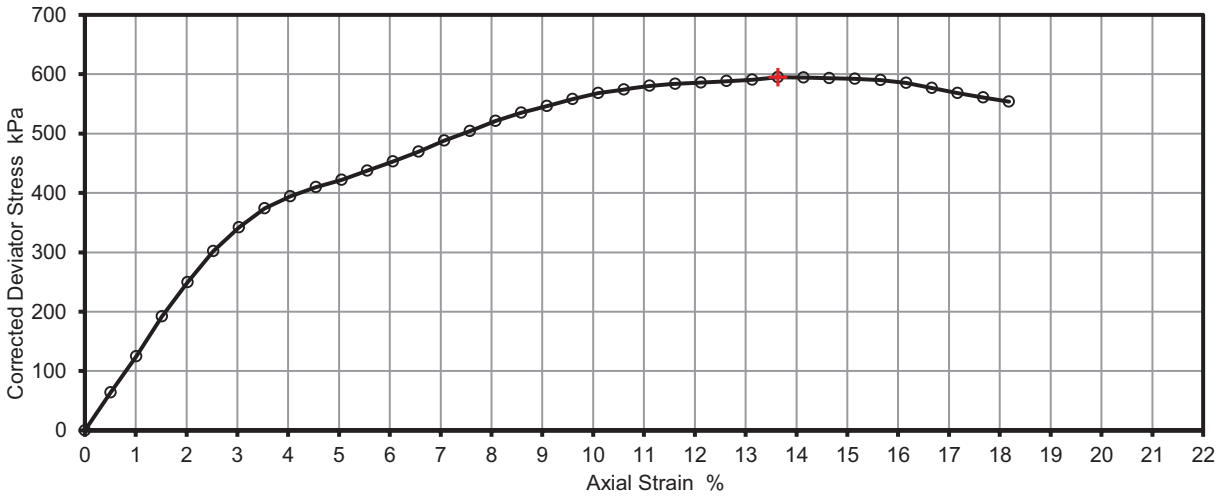
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	30961
				Borehole/Pit No.	BH1
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	4.00 m
Soil Description	Very high strength grey slightly gravelly silty CLAY with occasional pockets of orange silt, rare sandstone fragments and flint gravel (gravel is fmc and sub-rounded to sub-angular chalk gravel)			Depth Base	4.45 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	15/11/2021

Remarks

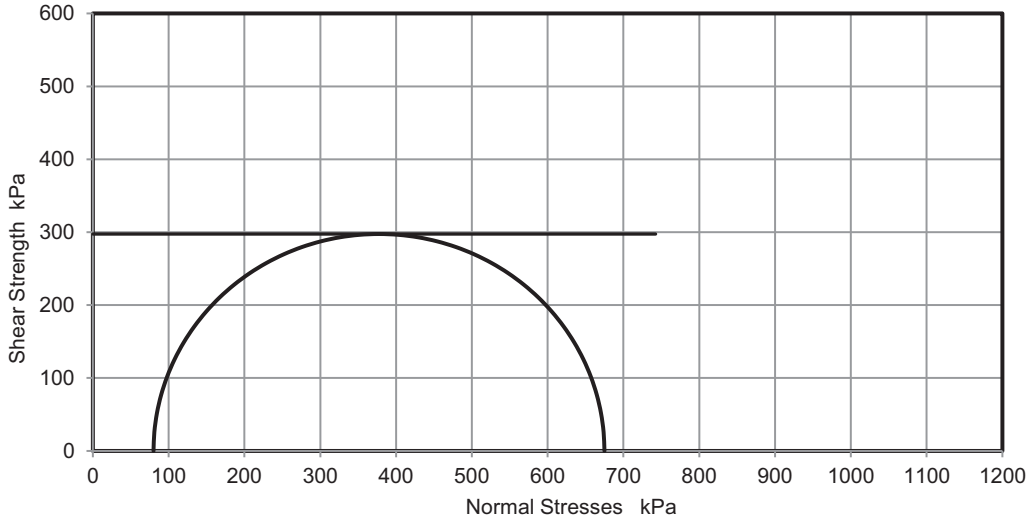
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	104.0	mm
Bulk Density	2.15	Mg/m3
Moisture Content	17	%
Dry Density	1.84	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	80	kPa
Axial Strain	14	%
Deviator Stress, (σ1 - σ3)f	595	kPa
Undrained Shear Strength, cu	297	kPa ½(σ1 - σ3)f
Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Test Report by K4 SOILS LABORATORY
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Checked and Approved
Initials: J.P
Date 19/11/2021

UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	30961
				Borehole/Pit No.	BH1
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	6.50 m
Soil Description	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks (gravel is fmc and sub-rounded chalk gravel)			Depth Base	6.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	15/11/2021

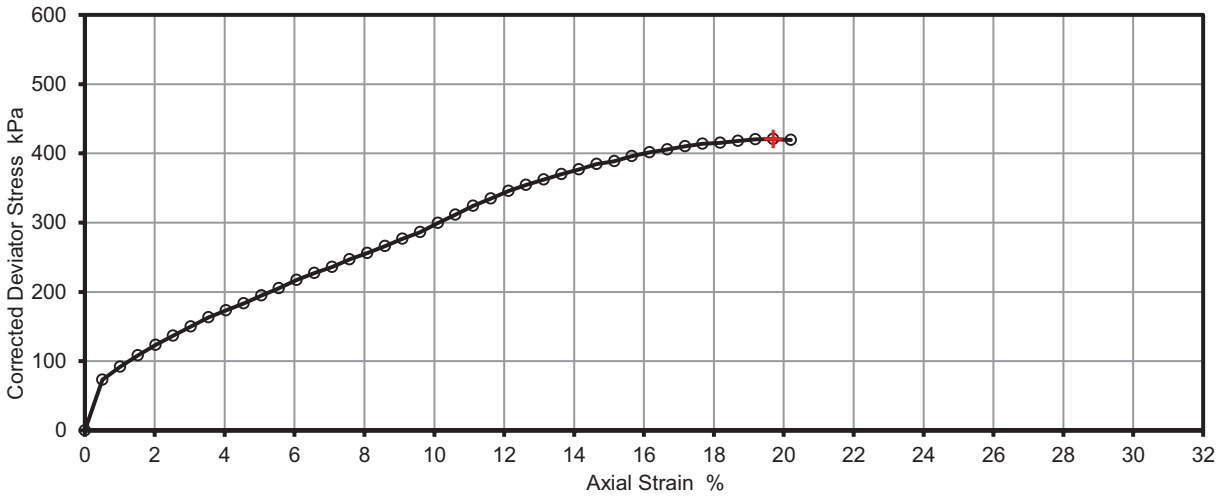
Remarks

Sample disturbed

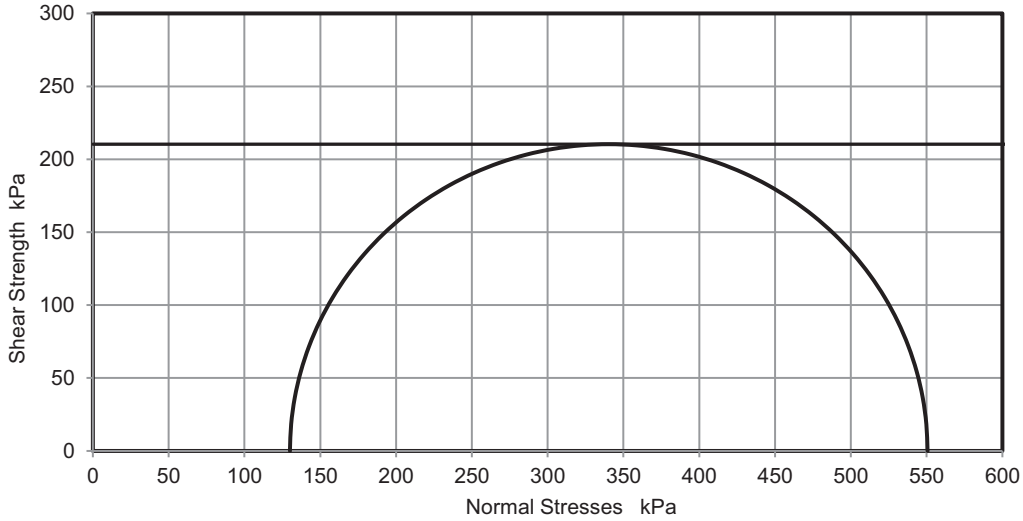
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	2.19	Mg/m3
Moisture Content	15	%
Dry Density	1.90	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	130	kPa
Axial Strain	20	%
Deviator Stress, (σ1 - σ3)f	421	kPa
Undrained Shear Strength, cu	210	kPa ½(σ1 - σ3)f
Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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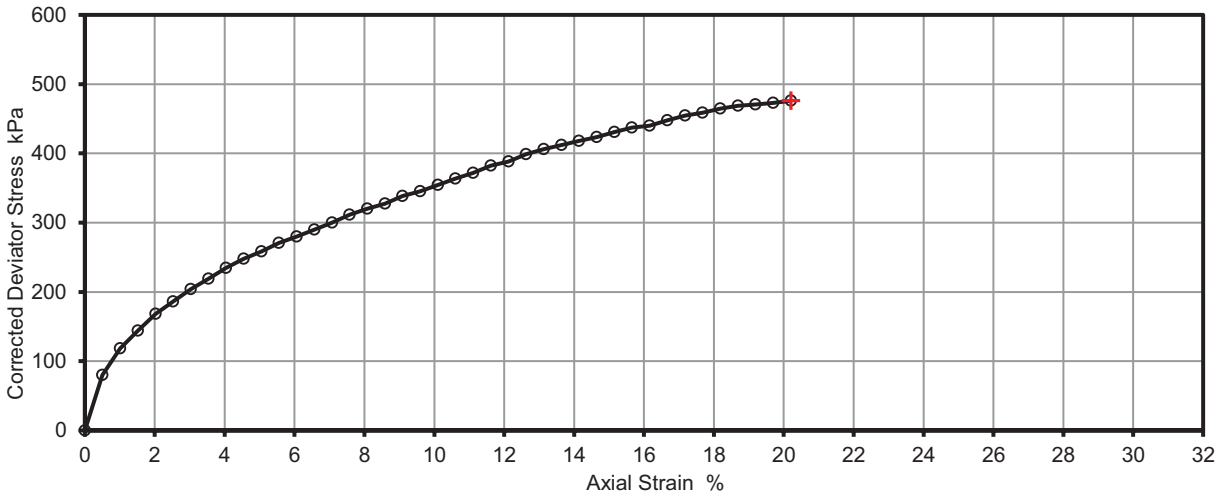
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	30961
				Borehole/Pit No.	BH1
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	9.50 m
Soil Description	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks and chalk fragments (gravel is fmc and sub-rounded chalk gravel)			Depth Base	9.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	15/11/2021

Remarks

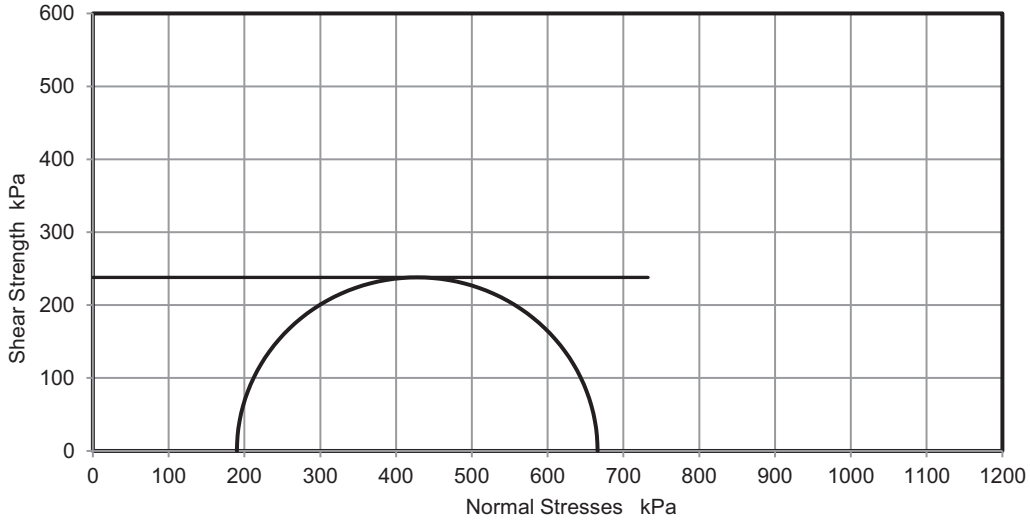
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	2.24	Mg/m3
Moisture Content	19	%
Dry Density	1.89	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	190	kPa
Axial Strain	20	%
Deviator Stress, (σ1 - σ3)f	476	kPa
Undrained Shear Strength, cu	238	kPa ½(σ1 - σ3)f
Mode of Failure	Plastic	

Deviator Stress v Axial Strain



Mohr Circles



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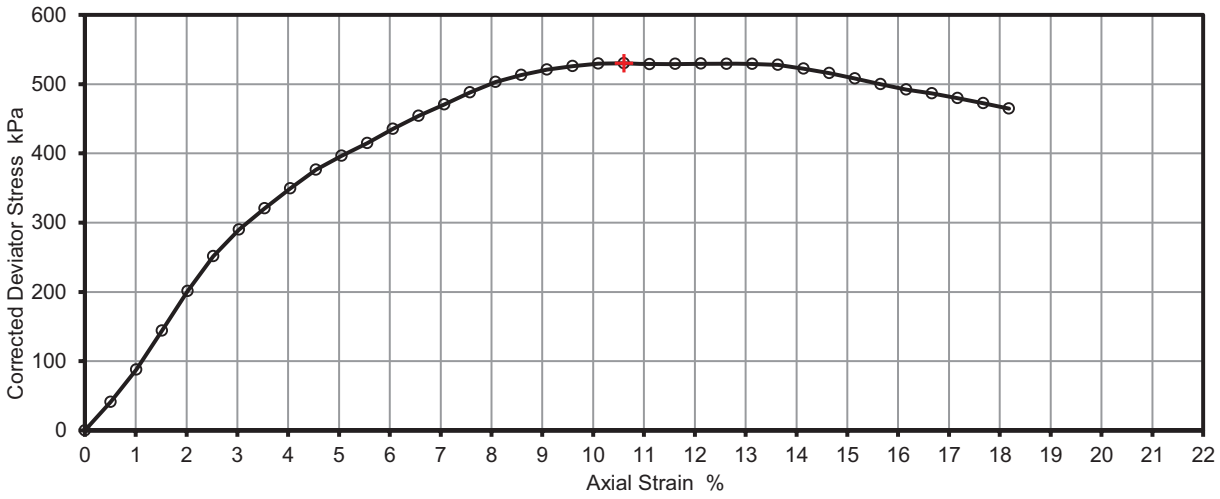
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	30961
				Borehole/Pit No.	BH1
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	24.50 m
Soil Description	Very high strength grey silty CLAY			Depth Base	24.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	15/11/2021

Remarks

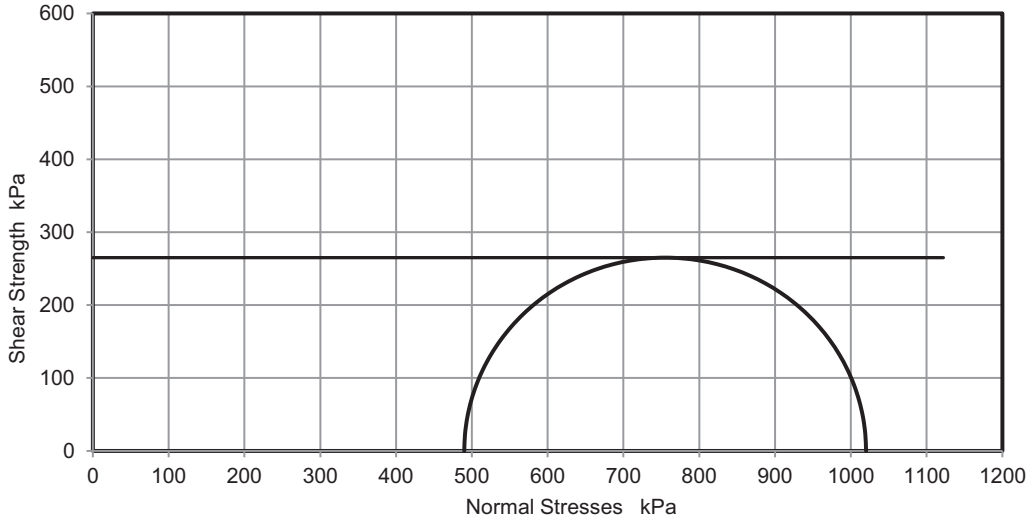
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	2.05	Mg/m3
Moisture Content	25	%
Dry Density	1.64	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	490	kPa
Axial Strain	11	%
Deviator Stress, (σ1 - σ3)f	530	kPa
Undrained Shear Strength, cu	265	kPa ½(σ1 - σ3)f
Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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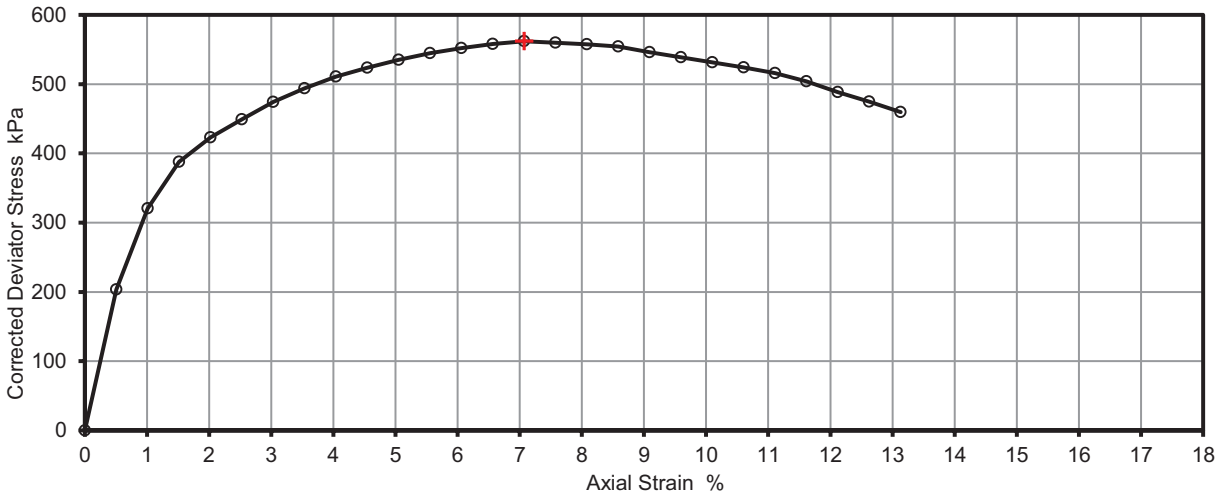
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	30961
				Borehole/Pit No.	BH1
Site Name	KAO Data			Sample No.	-
Project No.	P21.242	Client	Impact Geotechnical	Depth Top	27.50 m
Soil Description	Very high strength slightly fissured grey silty CLAY			Depth Base	27.95 m
				Sample Type	U
				Samples received	29/10/2021
				Schedules received	31/10/2021
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	15/11/2021

Remarks

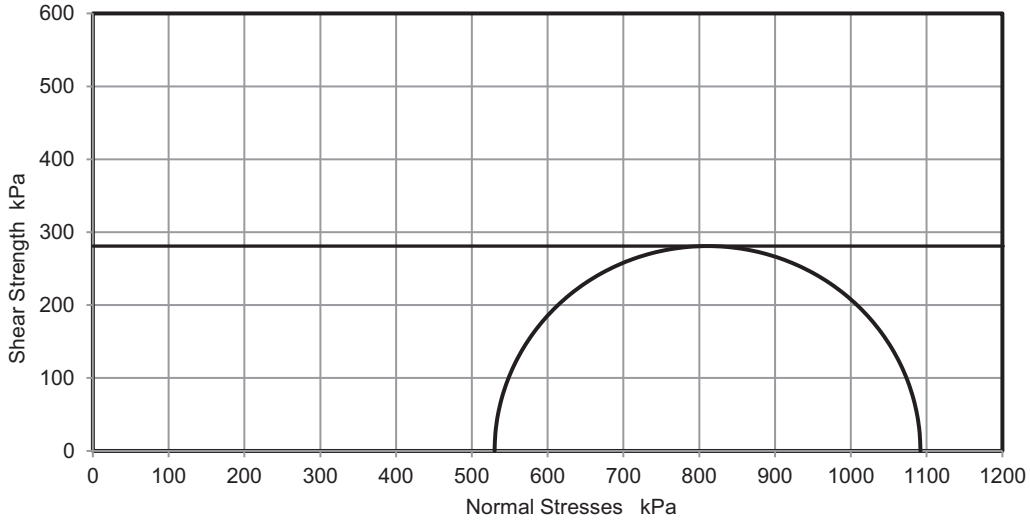
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	2.06	Mg/m3
Moisture Content	26	%
Dry Density	1.63	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	530	kPa
Axial Strain	7.1	%
Deviator Stress, (σ1 - σ3)f	562	kPa
Undrained Shear Strength, cu	281	kPa ½(σ1 - σ3)f
Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Unconsolidated Undrained Triaxial Compression tests without measurement of pore pressure
Summary of Results

Tests carried out in accordance with BS1377:Part 7 : 1990 clause 8 or 9 as appropriate to test type.

Job No.	Project Name	Programme	
30961	KAO Data	Samples received	29/10/2021
		Schedule received	31/10/2021
Project No.	Client	Project started	01/11/2021
P21.242	Impact Geotechnical	Testing Started	15/11/2021

Hole No.	Sample				Soil Description	Test Type	Density		w	Length	Diameter	σ3	At failure				Remarks
	Ref	Top	Base	Type			bulk	dry					Axial strain	σ1 - σ3	cu	Mode	
		m	m				Mg/m3		%	mm	mm	kPa	%	kPa	kPa		
BH1	-	4.00	4.45	U	Very high strength grey slightly gravelly silty CLAY with occasional pockets of orange silt, rare sandstone fragments and flint gravel (gravel is fmc and sub-rounded to sub-angular chalk gravel)	UU	2.15	1.84	17	198	104	80	14	595	297	C	
BH1	-	6.50	6.95	U	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks (gravel is fmc and sub-rounded chalk gravel)	UU	2.19	1.90	15	198	102	130	20	421	210	C	Sample disturbed
BH1	-	9.50	9.95	U	Very high strength grey slightly gravelly silty CLAY with rare flint and chalk flecks and chalk fragments (gravel is fmc and sub-rounded chalk gravel)	UU	2.24	1.89	19	198	102	190	20	476	238	P	
BH1	-	24.50	24.95	U	Very high strength grey silty CLAY	UU	2.05	1.64	25	198	102	490	11	530	265	C	
BH1	-	27.50	27.95	U	Very high strength slightly fissured grey silty CLAY	UU	2.06	1.63	26	198	102	530	7.1	562	281	C	

Legend
UU - single stage test (single and multiple specimens)
UUM - Multistage test on a single specimen
suffix R - remoulded or recompacted
σ3 Cell pressure
σ1 - σ3 Maximum corrected deviator stress
cu Undrained shear strength, ½ (σ1 - σ3)
Mode of failure ; B - Brittle P - Plastic C - Compound

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: james@k4soils.com

Checked and Approved
Initials: J.P
Date: 19/11/2021

2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr) MSF-5-R7b

Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results
Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 & Clause 12

Job No.	Project Name	Programme	
30961	KAO Data	Samples received	29/10/2021
		Schedule received	31/10/2021
Project No.	Client	Project started	01/11/2021
P21.242	Impact Geotechnical	Testing Started	17/11/2021

Hole No.	Sample Ref	Top m	Base m	Type	Soil description	Dry Mass passing 2mm %	SO4 Content mg/l	pH	Remarks
BH1	-	1.00	-	D	Orangish brown, bluish grey and grey slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-angular to sub-rounded chalk and flint gravel)	87	250	7.45	
BH1	-	5.00	-	D	Dark grey slightly sandy slightly gravelly silty CLAY (gravel is fm chalk gravel and chalk deposits)	82	1070	7.28	
BH1	-	9.00	-	D	Grey silty CLAY with scattered chalk deposits and chalk gravel	96	770	7.34	
BH1	-	13.00	-	D	Light grey slightly clayey sandy GRAVEL (gravel is fmc and sub-angular to sub-rounded)	17	250	7.48	
BH1	-	18.00	-	D	Grey slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded to sub-angular)	85	430	7.40	
BH1	-	23.00	-	D	Brownish grey slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded to rounded)	84	300	7.56	
BH1	-	28.00	-	D	Grey silty CLAY	100	510	7.54	

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved
Initials J.P
Date: 19/11/2021

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R29

Graham Carter
Impact Geotechnical Ltd
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Denmead
Hants
PO7 6NP

Derwentside Environmental Testing Services Ltd
Unit 1
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Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 21-13121

Site Reference:	KAO Data
Project / Job Ref:	P21.242
Order No:	None Supplied
Sample Receipt Date:	01/11/2021
Sample Scheduled Date:	01/11/2021
Report Issue Number:	1
Reporting Date:	09/11/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES1	SH2 ES2	SH2 ES3	SH2 ES4	SH2 ES5
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572449	572450	572451	572452	572453

Determinand	Unit	RL	Accreditation	(n)				(n)
Asbestos Screen [S]	N/a	N/a	**ISO17025**	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	**MCERTS**	8.1	8.1	7.9	8.1	8.0
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	**MCERTS**	114	281	519	40	127
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	**MCERTS**	0.11	0.28	0.52	0.04	0.13
Organic Matter (SOM)	%	< 0.1	NONE	2.2	2.9	2.5	3.7	1.6
Arsenic (As)	mg/kg	< 2	**MCERTS**	18	12	15	14	14
Cadmium (Cd)	mg/kg	< 0.2	**MCERTS**	0.4	0.3	0.3	0.3	0.3
Chromium (Cr)	mg/kg	< 2	**MCERTS**	21	18	19	18	18
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	**MCERTS**	59	24	21	18	17
Lead (Pb)	mg/kg	< 3	**MCERTS**	33	25	22	21	22
Mercury (Hg)	mg/kg	< 1	**MCERTS**	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	**MCERTS**	26	19	19	19	20
Selenium (Se)	mg/kg	< 2	**MCERTS**	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	**MCERTS**	162	93	97	73	75
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES6	SH1 ES7	SH1 ES8	SH1 ES9	SH1 ES10
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572454	572455	572456	572457	572458

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	**ISO17025**	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	**MCERTS**	8.0	10.2	8.1	7.9	7.8
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	**MCERTS**	348	449	145	34	47
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	**MCERTS**	0.35	0.45	0.14	0.03	0.05
Organic Matter (SOM)	%	< 0.1	NONE	1.4	3.9	3.9	2.9	3.1
Arsenic (As)	mg/kg	< 2	**MCERTS**	11	9	8	15	16
Cadmium (Cd)	mg/kg	< 0.2	**MCERTS**	0.2	< 0.2	0.3	0.3	0.4
Chromium (Cr)	mg/kg	< 2	**MCERTS**	16	15	16	20	20
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	**MCERTS**	17	18	32	21	21
Lead (Pb)	mg/kg	< 3	**MCERTS**	18	151	31	27	33
Mercury (Hg)	mg/kg	< 1	**MCERTS**	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	**MCERTS**	18	14	13	20	21
Selenium (Se)	mg/kg	< 2	**MCERTS**	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	**MCERTS**	64	66	82	71	77
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH3 ES11	ES12	ES13	ES14	ES15
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	0.20	0.40	0.40	0.15
Reporting Date: 09/11/2021	**DETS Sample No**	572459	572460	572461	572462	572463

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.2	9.7	9.4	9.9	9.8
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	58	314	147	576	502
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.06	0.31	0.15	0.58	0.50
Organic Matter (SOM)	%	< 0.1	NONE	3.5	2	1.9	3.9	2.3
Arsenic (As)	mg/kg	< 2	MCERTS	7	8	10	8	10
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	0.2	0.2	0.3	0.4
Chromium (Cr)	mg/kg	< 2	MCERTS	9	11	13	16	16
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	18	15	18	27	40
Lead (Pb)	mg/kg	< 3	MCERTS	20	21	17	60	97
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	9	12	15	11	13
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	54	47	52	129	284
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES16	ES17	ES18	ES19	ES20
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.20	0.10	0.05	0.10	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572464	572465	572466	572467	572468

Determinand	Unit	RL	Accreditation					(n)
Asbestos Screen (S)	N/a	N/a	**ISO17025**	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	**MCERTS**	9.5	9.9	9.6	8.1	8.0
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	**MCERTS**	504	677	487	121	93
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	**MCERTS**	0.50	0.68	0.49	0.12	0.09
Organic Matter (SOM)	%	< 0.1	NONE	3.1	2.9	3	2.1	2.7
Arsenic (As)	mg/kg	< 2	**MCERTS**	10	10	9	8	9
Cadmium (Cd)	mg/kg	< 0.2	**MCERTS**	0.5	0.4	0.3	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	**MCERTS**	16	27	17	14	14
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	**MCERTS**	17	18	16	14	14
Lead (Pb)	mg/kg	< 3	**MCERTS**	59	50	37	10	12
Mercury (Hg)	mg/kg	< 1	**MCERTS**	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	**MCERTS**	12	17	13	17	19
Selenium (Se)	mg/kg	< 2	**MCERTS**	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	**MCERTS**	142	160	78	44	50
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES21	ES22	ES23	ES24	ES25
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.20	0.10	0.20	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572469	572470	572471	572472	572473

Determinand	Unit	RL	Accreditation	(n)		(n)	(n)	(n)
Asbestos Screen [S]	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.4	9.3	9.3	9.6	10.0
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	163	582	413	377	215
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.16	0.58	0.41	0.38	0.22
Organic Matter (SOM)	%	< 0.1	NONE	2.3	2.1	2.3	2.8	7.5
Arsenic (As)	mg/kg	< 2	MCERTS	10	10	8	11	9
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	0.4	< 0.2	0.2	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	15	17	19	18	18
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	16	16	19	16	18
Lead (Pb)	mg/kg	< 3	MCERTS	23	38	27	28	28
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	18	14	15	16	17
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	62	123	61	65	68
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Maidstone
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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES26	ES27	ES28	ES29	ES30
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.10	0.40	0.50	0.40
Reporting Date: 09/11/2021	**DETS Sample No**	572474	572475	572476	572477	572478

Determinand	Unit	RL	Accreditation			(n)	(n)	
Asbestos Screen [S]	N/a	N/a	**ISO17025**	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	**MCERTS**	9.3	8.0	8.1	9.1	10.1
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	**MCERTS**	443	702	84	177	524
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	**MCERTS**	0.44	0.70	0.08	0.18	0.52
Organic Matter (SOM)	%	< 0.1	NONE	2	2.2	2.2	2.8	3
Arsenic (As)	mg/kg	< 2	**MCERTS**	10	12	10	9	12
Cadmium (Cd)	mg/kg	< 0.2	**MCERTS**	0.3	0.3	0.2	< 0.2	0.3
Chromium (Cr)	mg/kg	< 2	**MCERTS**	17	17	12	13	18
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	**MCERTS**	18	18	14	13	16
Lead (Pb)	mg/kg	< 3	**MCERTS**	42	28	10	12	50
Mercury (Hg)	mg/kg	< 1	**MCERTS**	< 1	1.1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	**MCERTS**	15	15	17	15	13
Selenium (Se)	mg/kg	< 2	**MCERTS**	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	**MCERTS**	143	81	48	42	138
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES31	ES32	ES33	ES34	ES35
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.70	0.10	0.40	0.30	0.10
Reporting Date: 09/11/2021	**DETS Sample No**	572479	572480	572481	572482	572483

Determinand	Unit	RL	Accreditation					(n)
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.9	10.4	11.2	8.8	10.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	167	383	147	380	273
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.17	0.38	0.15	0.38	0.27
Organic Matter (SOM)	%	< 0.1	NONE	2.9	2.7	2	2.2	2.3
Arsenic (As)	mg/kg	< 2	MCERTS	10	7	11	14	10
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	0.2	0.2	0.2	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	13	11	17	18	18
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	13	13	14	17	18
Lead (Pb)	mg/kg	< 3	MCERTS	14	35	29	156	51
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	14	8	17	20	13
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	64	77	60	73	70
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21		
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: KAQ Data	**TP / BH No**	ES36	ES37	ES38		
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	**Depth (m)**	0.05	0.20	0.80		
Reporting Date: 09/11/2021	**DETS Sample No**	572484	572485	572486		

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected		
pH	pH Units	N/a	MCERTS	9.2	9.9	8.7		
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2		
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	601	332	111		
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.60	0.33	0.11		
Organic Matter (SOM)	%	< 0.1	NONE	2.5	2.6	2.8		
Arsenic (As)	mg/kg	< 2	MCERTS	11	9	11		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3	0.4	0.3		
Chromium (Cr)	mg/kg	< 2	MCERTS	23	15	17		
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2		
Copper (Cu)	mg/kg	< 4	MCERTS	16	21	17		
Lead (Pb)	mg/kg	< 3	MCERTS	51	54	24		
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	15	11	18		
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3		
Zinc (Zn)	mg/kg	< 3	MCERTS	89	96	59		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES1	SH2 ES2	SH2 ES3	SH2 ES4	SH2 ES5
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572449	572450	572451	572452	572453

Determinand	Unit	RL	Accreditation	(n)				(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.14	0.34	0.18	0.29	0.18
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.22	0.68	0.29	0.29	0.31
Pyrene	mg/kg	< 0.1	MCERTS	0.19	0.64	0.25	0.24	0.27
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.11	0.35	0.13	< 0.1	0.15
Chrysene	mg/kg	< 0.1	MCERTS	0.12	0.45	0.19	0.13	0.18
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.18	0.54	0.22	0.14	0.22
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.16	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.12	0.34	0.14	< 0.1	0.15
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.29	0.13	< 0.1	0.15
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.30	0.14	< 0.1	0.14
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	4.1	1.7	< 1.6	1.8

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES6	SH1 ES7	SH1 ES8	SH1 ES9	SH1 ES10
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572454	572455	572456	572457	572458

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	0.19	0.53	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.14	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.11	0.58	1.33	0.12	0.26
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.76	1.22	< 0.1	0.23
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.33	0.57	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	0.42	0.70	< 0.1	0.17
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.51	1.15	< 0.1	0.23
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.19	0.40	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.32	0.88	< 0.1	0.13
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.32	0.85	< 0.1	0.14
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.21	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.32	0.82	< 0.1	0.18
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	4	8.8	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH3 ES11	ES12	ES13	ES14	ES15
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	0.20	0.40	0.40	0.15
Reporting Date: 09/11/2021	**DETS Sample No**	572459	572460	572461	572462	572463

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.20	0.19
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.40	0.76	0.20	1.12	0.99
Anthracene	mg/kg	< 0.1	MCERTS	0.11	< 0.1	< 0.1	0.37	0.31
Fluoranthene	mg/kg	< 0.1	MCERTS	1.61	0.91	0.42	2.25	1.82
Pyrene	mg/kg	< 0.1	MCERTS	1.99	0.87	0.39	2.80	2.32
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.93	0.23	0.15	1.41	1.27
Chrysene	mg/kg	< 0.1	MCERTS	1.36	0.29	0.21	1.37	1.18
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.87	0.28	0.22	1.71	1.49
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.54	< 0.1	< 0.1	0.59	0.54
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	1.19	0.17	0.15	1.30	1.20
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	1.14	0.18	0.15	0.77	0.67
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.28	< 0.1	< 0.1	0.18	0.16
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	1.08	0.15	0.16	0.71	0.63
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	12.5	3.8	2.1	14.8	12.8

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES16	ES17	ES18	ES19	ES20
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.20	0.10	0.05	0.10	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572464	572465	572466	572467	572468

Determinand	Unit	RL	Accreditation				(n)	
Naphthalene	mg/kg	< 0.1	MCERTS	0.14	0.18	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	0.30	0.43	0.11	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	0.15	0.24	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	1.52	2.27	0.60	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	0.47	0.71	0.19	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	2.39	3.45	1.34	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	3.04	3.92	1.80	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	1.76	2.37	1.14	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	1.44	1.99	1.03	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.91	2.84	1.22	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.62	1.04	0.50	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	1.53	2.42	1.02	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.84	1.34	0.62	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.19	0.28	0.14	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.77	1.18	0.54	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	17.1	24.7	10.3	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES21	ES22	ES23	ES24	ES25
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.20	0.10	0.20	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572469	572470	572471	572472	572473

Determinand	Unit	RL	Accreditation	(n)		(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	0.13	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.18	0.74	0.24	0.50	0.13
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.20	< 0.1	0.14	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.46	1.42	0.51	0.78	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	0.43	1.42	0.55	0.79	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.24	0.77	0.35	0.46	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	0.28	0.87	0.35	0.45	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.37	1.19	0.45	0.58	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.42	0.18	0.24	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.24	1.03	0.35	0.46	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.19	0.59	0.22	0.29	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.16	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.18	0.57	0.21	0.27	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	2.6	9.5	3.4	5	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES26	ES27	ES28	ES29	ES30
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.10	0.40	0.50	0.40
Reporting Date: 09/11/2021	**DETS Sample No**	572474	572475	572476	572477	572478

Determinand	Unit	RL	Accreditation				(n)	
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.13
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.25
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.13
Phenanthrene	mg/kg	< 0.1	MCERTS	0.42	0.33	< 0.1	0.13	1.36
Anthracene	mg/kg	< 0.1	MCERTS	0.13	< 0.1	< 0.1	< 0.1	0.41
Fluoranthene	mg/kg	< 0.1	MCERTS	0.86	0.64	0.14	0.27	2.28
Pyrene	mg/kg	< 0.1	MCERTS	0.92	0.58	0.14	0.26	2.77
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.54	0.35	< 0.1	0.13	1.61
Chrysene	mg/kg	< 0.1	MCERTS	0.49	0.33	< 0.1	0.14	1.42
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.61	0.50	< 0.1	0.14	1.76
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.25	0.13	< 0.1	< 0.1	0.53
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.50	0.35	< 0.1	< 0.1	1.33
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.31	0.27	< 0.1	< 0.1	0.86
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.18
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.29	0.26	< 0.1	< 0.1	0.74
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	5.3	3.7	< 1.6	< 1.6	15.8

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES31	ES32	ES33	ES34	ES35
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.70	0.10	0.40	0.30	0.10
Reporting Date: 09/11/2021	**DETS Sample No**	572479	572480	572481	572482	572483

Determinand	Unit	RL	Accreditation				(n)	
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	0.15	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.17	0.78	0.15	< 0.1	0.56
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.25	< 0.1	< 0.1	0.18
Fluoranthene	mg/kg	< 0.1	MCERTS	0.36	1.48	0.16	< 0.1	1.49
Pyrene	mg/kg	< 0.1	MCERTS	0.33	1.76	0.17	< 0.1	1.92
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.17	0.99	< 0.1	< 0.1	1.09
Chrysene	mg/kg	< 0.1	MCERTS	0.18	0.89	< 0.1	< 0.1	1.02
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.24	1.05	< 0.1	< 0.1	1.18
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.43	< 0.1	< 0.1	0.50
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.18	0.86	< 0.1	< 0.1	0.98
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.12	0.50	< 0.1	< 0.1	0.64
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.13
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.44	< 0.1	< 0.1	0.59
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	1.7	9.6	< 1.6	< 1.6	10.3

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21		
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: KAQ Data	**TP / BH No**	ES36	ES37	ES38		
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	**Depth (m)**	0.05	0.20	0.80		
Reporting Date: 09/11/2021	**DETS Sample No**	572484	572485	572486		

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	0.20	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	0.20	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.22	1.38	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.37	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	0.37	2.35	< 0.1		
Pyrene	mg/kg	< 0.1	MCERTS	0.39	2.74	< 0.1		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.26	1.58	< 0.1		
Chrysene	mg/kg	< 0.1	MCERTS	0.25	1.45	< 0.1		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.30	1.65	< 0.1		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.13	0.68	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.25	1.34	< 0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.17	0.87	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.18	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.15	0.79	< 0.1		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	2.5	15.8	< 1.6		

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES1	SH2 ES2	SH2 ES3	SH2 ES4	SH2 ES5
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572449	572450	572451	572452	572453

Determinand	Unit	RL	Accreditation	(n)				(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES6	SH1 ES7	SH1 ES8	SH1 ES9	SH1 ES10
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572454	572455	572456	572457	572458

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	16	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	158	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	174	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	5	5	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	34	11	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	39	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	213	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH3 ES11	ES12	ES13	ES14	ES15
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	0.20	0.40	0.40	0.15
Reporting Date: 09/11/2021	**DETS Sample No**	572459	572460	572461	572462	572463

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	3	< 3	< 3	16	19
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	17	< 10	< 10	195	93
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	211	112
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	5	< 3	< 3	12	7
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	45	13
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	57	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	268	132

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES16	ES17	ES18	ES19	ES20
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.20	0.10	0.05	0.10	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572464	572465	572466	572467	572468

Determinand	Unit	RL	Accreditation				(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	8
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	5	< 3	< 3	12
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	7	43	11	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	50	131	17	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	57	179	28	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	10	10	4	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	34	23	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	45	33	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	102	211	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES21	ES22	ES23	ES24	ES25
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.20	0.10	0.20	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572469	572470	572471	572472	572473

Determinand	Unit	RL	Accreditation	(n)		(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES26	ES27	ES28	ES29	ES30
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.10	0.40	0.50	0.40
Reporting Date: 09/11/2021	**DETS Sample No**	572474	572475	572476	572477	572478

Determinand	Unit	RL	Accreditation		(n)		(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	5
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	8	< 3	< 3	39
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	19	< 10	< 10	67
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	27	< 21	< 21	111
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	111

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES31	ES32	ES33	ES34	ES35
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.70	0.10	0.40	0.30	0.10
Reporting Date: 09/11/2021	**DETS Sample No**	572479	572480	572481	572482	572483

Determinand	Unit	RL	Accreditation				(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	8
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	14	< 10	< 10	20
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	28
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21		
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: KAQ Data	**TP / BH No**	ES36	ES37	ES38		
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	**Depth (m)**	0.05	0.20	0.80		
Reporting Date: 09/11/2021	**DETS Sample No**	572484	572485	572486		

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3		
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	13	< 3		
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	13	54	< 10		
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	67	< 21		
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	15	< 3		
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	47	< 10		
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	62	< 21		
Total >C5 - C35	mg/kg	< 42	NONE	< 42	129	< 42		

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES1	SH2 ES2	SH2 ES3	SH2 ES4	SH2 ES5
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572449	572450	572451	572452	572453

Determinand	Unit	RL	Accreditation	(n)				(n)
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES6	SH1 ES7	SH1 ES8	SH1 ES9	SH1 ES10
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572454	572455	572456	572457	572458

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH3 ES11	ES12	ES13	ES14	ES15
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied	0.20	0.40	0.40	0.15
Reporting Date: 09/11/2021	**DETS Sample No**	572459	572460	572461	572462	572463

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES16	ES17	ES18	ES19	ES20
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.20	0.10	0.05	0.10	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572464	572465	572466	572467	572468

Determinand	Unit	RL	Accreditation				(n)	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES21	ES22	ES23	ES24	ES25
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.20	0.10	0.20	0.50
Reporting Date: 09/11/2021	**DETS Sample No**	572469	572470	572471	572472	572473

Determinand	Unit	RL	Accreditation	(n)		(n)	(n)	(n)
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES26	ES27	ES28	ES29	ES30
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.30	0.10	0.40	0.50	0.40
Reporting Date: 09/11/2021	**DETS Sample No**	572474	572475	572476	572477	572478

Determinand	Unit	RL	Accreditation				(n)	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: KAQ Data	**TP / BH No**	ES31	ES32	ES33	ES34	ES35
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	**Depth (m)**	0.70	0.10	0.40	0.30	0.10
Reporting Date: 09/11/2021	**DETS Sample No**	572479	572480	572481	572482	572483

Determinand	Unit	RL	Accreditation				(n)	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-13121	**Date Sampled**	27/10/21	27/10/21	27/10/21		
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: KAQ Data	**TP / BH No**	ES36	ES37	ES38		
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	**Depth (m)**	0.05	0.20	0.80		
Reporting Date: 09/11/2021	**DETS Sample No**	572484	572485	572486		

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5		

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH2 ES1						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572449						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.3				3%	5%	6%
Loss on Ignition	%	< 0.01	3.80				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7				100	--	--
pH[MU]	pH Units	N/a	8.1				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.1				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.005			0.05	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.011			0.11	4	50	200
Chloride[U]			3.1			31	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			18.4			184	1000	20000	50000
TDS			77			770	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			11.7			117	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			88.2						
Moisture (%)			13.4						
Stage 1									
Volume Eluate L10 (litres)			0.89						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepencies with current legislation
M Denotes MCERTS accredited test
U Denotes ISO17025 accredited test

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21
Impact Geotechnical Ltd	**Time Sampled**	None Supplied
Site Reference: KAQ Data	**TP / BH No**	SH2 ES2
Project / Job Ref: P21.242	**Additional Refs**	None Supplied
Order No: None Supplied	**Depth (m)**	None Supplied
Reporting Date: 09/11/2021	**DETS Sample No**	572450

Determinand	**Unit**	**MDL**		Landfill Waste Acceptance Criteria Limits: **Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	1.7	3%	5%	6%
Loss on Ignition	%	< 0.01	3.50	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	4.1	100	--	--
pH[MU]	pH Units	N/a	8.1	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01			< 0.1	0.5	2	25
Barium[U]	< 0.02			< 0.2	20	100	300
Cadmium[U]	< 0.0005			< 0.005	0.04	1	5
Chromium[U]	< 0.005			< 0.05	0.5	10	70
Copper[U]	< 0.01			< 0.1	2	50	100
Mercury[U]	< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]	0.004			0.04	0.5	10	30
Nickel[U]	< 0.007			< 0.07	0.4	10	40
Lead[U]	< 0.005			< 0.05	0.5	10	50
Antimony[U]	< 0.005			< 0.05	0.06	0.7	5
Selenium[U]	< 0.005			< 0.05	0.1	0.5	7
Zinc[U]	0.010			0.10	4	50	200
Chloride[U]	2.1			21	800	15000	25000
Fluoride[U]	< 0.5			< 5	10	150	500
Sulphate[U]	88.7			887	1000	20000	50000
TDS	125			1250	4000	60000	100000
Phenol Index	< 0.01			< 0.1	1	-	-
DOC	9.8			97.5	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.10
Dry Matter (%)	85.9
Moisture (%)	16.4
Stage 1	
Volume Eluate L10 (litres)	0.88

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion
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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH2 ES3						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572451						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.4				3%	5%	6%
Loss on Ignition	%	< 0.01	3.60				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7				100	--	--
pH[MU]	pH Units	N/a	7.9				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.2				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.003			0.03	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.010			0.10	4	50	200
Chloride[U]			2.8			28	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			31.9			319	1000	20000	50000
TDS			95			950	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			13.3			133	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.11						
Dry Matter (%)			85						
Moisture (%)			17.8						
Stage 1									
Volume Eluate L10 (litres)			0.88						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion
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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	SH2 ES4	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	None Supplied	
Reporting Date: 09/11/2021	**DETS Sample No**	572452	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	2.1	3%	5%	6%
Loss on Ignition	%	< 0.01	3.50	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7	100	--	--
pH[MU]	pH Units	N/a	8.1	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg): Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Arsenic[U]	< 0.01	< 0.1	0.5	2	25
Barium[U]	< 0.02	< 0.2	20	100	300
Cadmium[U]	< 0.0005	< 0.005	0.04	1	5
Chromium[U]	< 0.005	< 0.05	0.5	10	70
Copper[U]	< 0.01	< 0.1	2	50	100
Mercury[U]	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum[U]	0.007	0.07	0.5	10	30
Nickel[U]	< 0.007	< 0.07	0.4	10	40
Lead[U]	< 0.005	< 0.05	0.5	10	50
Antimony[U]	< 0.005	< 0.05	0.06	0.7	5
Selenium[U]	< 0.005	< 0.05	0.1	0.5	7
Zinc[U]	0.010	0.10	4	50	200
Chloride[U]	2.5	25	800	15000	25000
Fluoride[U]	< 0.5	< 5	10	150	500
Sulphate[U]	5.8	58	1000	20000	50000
TDS	73	730	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	12.1	121	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.11
Dry Matter (%)	83.5
Moisture (%)	19.8
Stage 1	
Volume Eluate L10 (litres)	0.88

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**	
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH2 ES5						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572453						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	0.9				3%	5%	6%
Loss on Ignition	%	< 0.01	3.70				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	1.8				100	--	--
pH[MU]	pH Units	N/a	8.0				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.007			0.07	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.023			0.23	4	50	200
Chloride[U]			3.1			31	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			12.7			127	1000	20000	50000
TDS			78			780	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			13.5			135	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.11						
Dry Matter (%)			84.7						
Moisture (%)			18.2						
Stage 1									
Volume Eluate L10 (litres)			0.88						

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	SH2 ES6	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	None Supplied	
Reporting Date: 09/11/2021	**DETS Sample No**	572454	

Determinand	**Unit**	**MDL**		Landfill Waste Acceptance Criteria Limits: **Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	0.8	3%	5%	6%
Loss on Ignition	%	< 0.01	3.90	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7	100	--	--
pH[MU]	pH Units	N/a	8.0	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.1	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg): Inert	Stable Non-reactive	Hazardous
Arsenic[U]	< 0.01	< 0.1	0.5	2	25
Barium[U]	< 0.02	< 0.2	20	100	300
Cadmium[U]	< 0.0005	< 0.005	0.04	1	5
Chromium[U]	< 0.005	< 0.05	0.5	10	70
Copper[U]	< 0.01	< 0.1	2	50	100
Mercury[U]	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum[U]	0.003	0.03	0.5	10	30
Nickel[U]	< 0.007	< 0.07	0.4	10	40
Lead[U]	< 0.005	< 0.05	0.5	10	50
Antimony[U]	< 0.005	< 0.05	0.06	0.7	5
Selenium[U]	< 0.005	< 0.05	0.1	0.5	7
Zinc[U]	0.009	0.09	4	50	200
Chloride[U]	4.6	46	800	15000	25000
Fluoride[U]	< 0.5	< 5	10	150	500
Sulphate[U]	7.2	72	1000	20000	50000
TDS	51	510	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	15.8	158	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.10
Dry Matter (%)	87.5
Moisture (%)	14.4
Stage 1	
Volume Eluate L10 (litres)	0.89

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	SH1 ES7	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	None Supplied	
Reporting Date: 09/11/2021	**DETS Sample No**	572455	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	2.3	3%	5%	6%
Loss on Ignition	%	< 0.01	3.80	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	4.1	100	--	--
pH[MU]	pH Units	N/a	10.2	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.7	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01	< 0.1	0.5	2	25
Barium[U]	< 0.02	< 0.2	20	100	300
Cadmium[U]	< 0.0005	< 0.005	0.04	1	5
Chromium[U]	0.013	0.13	0.5	10	70
Copper[U]	< 0.01	< 0.1	2	50	100
Mercury[U]	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum[U]	0.004	0.04	0.5	10	30
Nickel[U]	< 0.007	< 0.07	0.4	10	40
Lead[U]	< 0.005	< 0.05	0.5	10	50
Antimony[U]	< 0.005	< 0.05	0.06	0.7	5
Selenium[U]	< 0.005	< 0.05	0.1	0.5	7
Zinc[U]	0.006	0.06	4	50	200
Chloride[U]	3.0	30	800	15000	25000
Fluoride[U]	< 0.5	< 5	10	150	500
Sulphate[U]	56.5	565	1000	20000	50000
TDS	125	1250	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	13.9	139	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.10
Dry Matter (%)	89.8
Moisture (%)	11.4
Stage 1	
Volume Eluate L10 (litres)	0.89

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**	
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH1 ES8						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572456						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	2.3				3%	5%	6%
Loss on Ignition	%	< 0.01	5				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	339				500	--	--
Total PAH[MU]	mg/kg	< 1.7	9.1				100	--	--
pH[MU]	pH Units	N/a	8.1				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.7				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.004			0.04	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.009			0.09	4	50	200
Chloride[U]			3.7			37	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			9.3			93	1000	20000	50000
TDS			72			720	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			14.9			149	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			91.1						
Moisture (%)			9.8						
Stage 1									
Volume Eluate L10 (litres)			0.89						

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DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**	
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH1 ES9						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572457						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.7				3%	5%	6%
Loss on Ignition	%	< 0.01	5				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7				100	--	--
pH[MU]	pH Units	N/a	7.9				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.7				--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01			< 0.1	0.5	2	25
Barium[U]	< 0.02			< 0.2	20	100	300
Cadmium[U]	< 0.0005			< 0.005	0.04	1	5
Chromium[U]	< 0.005			< 0.05	0.5	10	70
Copper[U]	< 0.01			< 0.1	2	50	100
Mercury[U]	< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]	0.003			0.03	0.5	10	30
Nickel[U]	< 0.007			< 0.07	0.4	10	40
Lead[U]	< 0.005			< 0.05	0.5	10	50
Antimony[U]	< 0.005			< 0.05	0.06	0.7	5
Selenium[U]	< 0.005			< 0.05	0.1	0.5	7
Zinc[U]	0.008			0.08	4	50	200
Chloride[U]	2.6			26	800	15000	25000
Fluoride[U]	0.7			6.6	10	150	500
Sulphate[U]	5.0			50	1000	20000	50000
TDS	76			760	4000	60000	100000
Phenol Index	< 0.01			< 0.1	1	-	-
DOC	12.9			129	500	800	1000
Leach Test Information							
Sample Mass (kg)	0.11						
Dry Matter (%)	85.3						
Moisture (%)	17.2						
Stage 1							
Volume Eluate L10 (litres)	0.88						

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	SH1 ES10	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	None Supplied	
Reporting Date: 09/11/2021	**DETS Sample No**	572458	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits**		
				Inert Waste Landfill	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	1.8	3%	5%	6%
Loss on Ignition	%	< 0.01	6	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7	100	--	--
pH[MU]	pH Units	N/a	7.8	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.6	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01	< 0.1	0.5	2	25
Barium[U]	< 0.02	< 0.2	20	100	300
Cadmium[U]	< 0.0005	< 0.005	0.04	1	5
Chromium[U]	< 0.005	< 0.05	0.5	10	70
Copper[U]	< 0.01	< 0.1	2	50	100
Mercury[U]	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum[U]	0.002	0.02	0.5	10	30
Nickel[U]	< 0.007	< 0.07	0.4	10	40
Lead[U]	< 0.005	< 0.05	0.5	10	50
Antimony[U]	< 0.005	< 0.05	0.06	0.7	5
Selenium[U]	< 0.005	< 0.05	0.1	0.5	7
Zinc[U]	0.007	0.07	4	50	200
Chloride[U]	3.0	30	800	15000	25000
Fluoride[U]	0.7	6.8	10	150	500
Sulphate[U]	7.6	76	1000	20000	50000
TDS	77	770	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	12.9	129	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.11
Dry Matter (%)	84.2
Moisture (%)	18.8
Stage 1	
Volume Eluate L10 (litres)	0.88

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	SH3 ES11						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	None Supplied						
Reporting Date: 09/11/2021		**DETS Sample No**	572459						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.5				3%	5%	6%
Loss on Ignition	%	< 0.01	2.60				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	47				500	--	--
Total PAH[MU]	mg/kg	< 1.7	12.8				100	--	--
pH[MU]	pH Units	N/a	8.2				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.001			0.01	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.008			0.08	4	50	200
Chloride[U]			2.7			27	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			8.5			85	1000	20000	50000
TDS			62			620	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			11.8			118	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			90.5						
Moisture (%)			10.4						
Stage 1									
Volume Eluate L10 (litres)			0.89						

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**	
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	ES13						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	0.40						
Reporting Date: 09/11/2021		**DETS Sample No**	572461						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.1				3%	5%	6%
Loss on Ignition	%	< 0.01	3.30				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	2.1				100	--	--
pH[MU]	pH Units	N/a	9.4				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	3.3				--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01			< 0.1	0.5	2	25
Barium[U]	< 0.02			< 0.2	20	100	300
Cadmium[U]	< 0.0005			< 0.005	0.04	1	5
Chromium[U]	< 0.005			< 0.05	0.5	10	70
Copper[U]	< 0.01			< 0.1	2	50	100
Mercury[U]	< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]	0.004			0.04	0.5	10	30
Nickel[U]	< 0.007			< 0.07	0.4	10	40
Lead[U]	< 0.005			< 0.05	0.5	10	50
Antimony[U]	< 0.005			< 0.05	0.06	0.7	5
Selenium[U]	< 0.005			< 0.05	0.1	0.5	7
Zinc[U]	0.010			0.10	4	50	200
Chloride[U]	5.7			57	800	15000	25000
Fluoride[U]	< 0.5			< 5	10	150	500
Sulphate[U]	25.0			250	1000	20000	50000
TDS	74			740	4000	60000	100000
Phenol Index	< 0.01			< 0.1	1	-	-
DOC	17.9			179	500	800	1000
Leach Test Information							
Sample Mass (kg)	0.11						
Dry Matter (%)	85.5						
Moisture (%)	17						
Stage 1							
Volume Eluate L10 (litres)	0.88						

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MCERTS — THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME
UKAS TESTING 4480

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	ES17	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	0.10	
Reporting Date: 09/11/2021	**DETS Sample No**	572465	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC^{MU}	%	< 0.1	1.7	3%	5%	6%
Loss on Ignition	%	< 0.01	8	--	--	10%
BTEX^{MU}	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil^{MU}	mg/kg	< 10	225	500	--	--
Total PAH^{MU}	mg/kg	< 1.7	25	100	--	--
pH^{MU}	pH Units	N/a	9.9	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.8	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg): Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Arsenic^{U}	< 0.01	< 0.1	0.5	2	25
Barium^{U}	< 0.02	< 0.2	20	100	300
Cadmium^{U}	< 0.0005	< 0.005	0.04	1	5
Chromium^{U}	0.005	0.05	0.5	10	70
Copper^{U}	0.01	0.1	2	50	100
Mercury^{U}	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum^{U}	0.002	0.02	0.5	10	30
Nickel^{U}	< 0.007	< 0.07	0.4	10	40
Lead^{U}	< 0.005	< 0.05	0.5	10	50
Antimony^{U}	< 0.005	< 0.05	0.06	0.7	5
Selenium^{U}	< 0.005	< 0.05	0.1	0.5	7
Zinc^{U}	0.016	0.16	4	50	200
Chloride^{U}	1.7	17	800	15000	25000
Fluoride^{U}	< 0.5	< 5	10	150	500
Sulphate^{U}	128.4	1284	**1000**	20000	50000
TDS	201	2009	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	16.4	164	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.10
Dry Matter (%)	88.5
Moisture (%)	13
Stage 1	
Volume Eluate L10 (litres)	0.89

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	ES20						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	0.50						
Reporting Date: 09/11/2021		**DETS Sample No**	572468						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.6				3%	5%	6%
Loss on Ignition	%	< 0.01	3.10				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	21				500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7				100	--	--
pH[MU]	pH Units	N/a	8.0				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	3.2				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.005			0.05	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.033			0.33	4	50	200
Chloride[U]			2.6			26	800	15000	25000
Fluoride[U]			1			10.4	**10**	150	500
Sulphate[U]			11.4			114	1000	20000	50000
TDS			70			700	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			10.9			109	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			86						
Moisture (%)			16.2						
Stage 1									
Volume Eluate L10 (litres)			0.88						

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DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	ES27	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	0.10	
Reporting Date: 09/11/2021	**DETS Sample No**	572475	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits**		
				Inert Waste Landfill	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	1.3	3%	5%	6%
Loss on Ignition	%	< 0.01	7.50	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	30	500	--	--
Total PAH[MU]	mg/kg	< 1.7	3.7	100	--	--
pH[MU]	pH Units	N/a	8.0	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.8	--	To be evaluated	To be evaluated

Eluate Analysis	**10:1 mg/l**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]	< 0.01	< 0.1	0.5	2	25
Barium[U]	0.02	0.2	20	100	300
Cadmium[U]	< 0.0005	< 0.005	0.04	1	5
Chromium[U]	< 0.005	< 0.05	0.5	10	70
Copper[U]	< 0.01	< 0.1	2	50	100
Mercury[U]	< 0.0005	< 0.005	0.01	0.2	2
Molybdenum[U]	0.010	0.10	0.5	10	30
Nickel[U]	< 0.007	< 0.07	0.4	10	40
Lead[U]	< 0.005	< 0.05	0.5	10	50
Antimony[U]	< 0.005	< 0.05	0.06	0.7	5
Selenium[U]	< 0.005	< 0.05	0.1	0.5	7
Zinc[U]	0.012	0.12	4	50	200
Chloride[U]	3.5	35	800	15000	25000
Fluoride[U]	< 0.5	< 5	10	150	500
Sulphate[U]	75.9	759	1000	20000	50000
TDS	161	1609	4000	60000	100000
Phenol Index	< 0.01	< 0.1	1	-	-
DOC	23.8	238	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.10
Dry Matter (%)	86
Moisture (%)	16.2
Stage 1	
Volume Eluate L10 (litres)	0.88

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DETS Report No: 21-13121	**Date Sampled**	27/10/21	
Impact Geotechnical Ltd	**Time Sampled**	None Supplied	
Site Reference: KAQ Data	**TP / BH No**	ES31	
Project / Job Ref: P21.242	**Additional Refs**	None Supplied	
Order No: None Supplied	**Depth (m)**	0.70	
Reporting Date: 09/11/2021	**DETS Sample No**	572479	

Determinand	Unit	MDL		Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
TOC[MU]	%	< 0.1	1.7	3%	5%	6%
Loss on Ignition	%	< 0.01	7.10	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	1.7	100	--	--
pH[MU]	pH Units	N/a	7.9	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3	--	To be evaluated	To be evaluated

Eluate Analysis		10:1 mg/l			Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg): Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Arsenic[U]		< 0.01			< 0.1	0.5	2	25
Barium[U]		0.02			0.2	20	100	300
Cadmium[U]		< 0.0005			< 0.005	0.04	1	5
Chromium[U]		< 0.005			< 0.05	0.5	10	70
Copper[U]		< 0.01			< 0.1	2	50	100
Mercury[U]		< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]		0.011			0.11	0.5	10	30
Nickel[U]		< 0.007			< 0.07	0.4	10	40
Lead[U]		< 0.005			< 0.05	0.5	10	50
Antimony[U]		< 0.005			< 0.05	0.06	0.7	5
Selenium[U]		< 0.005			< 0.05	0.1	0.5	7
Zinc[U]		0.009			0.09	4	50	200
Chloride[U]		4.0			40	800	15000	25000
Fluoride[U]		0.5			5.5	10	150	500
Sulphate[U]		36.7			367	1000	20000	50000
TDS		151			1509	4000	60000	100000
Phenol Index		< 0.01			< 0.1	1	-	-
DOC		22.6			226	500	800	1000

Leach Test Information	
Sample Mass (kg)	0.11
Dry Matter (%)	82.9
Moisture (%)	20.8
Stage 1	
Volume Eluate L10 (litres)	0.88

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	ES33						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	0.40						
Reporting Date: 09/11/2021		**DETS Sample No**	572481						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.2				3%	5%	6%
Loss on Ignition	%	< 0.01	6.50				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10				500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7				100	--	--
pH[MU]	pH Units	N/a	11.2				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.8				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.003			0.03	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.005			0.05	4	50	200
Chloride[U]			2.1			21	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			17.1			172	1000	20000	50000
TDS			67			670	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			9.8			97.9	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			87.2						
Moisture (%)			14.8						
Stage 1									
Volume Eluate L10 (litres)			0.89						

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DETS Report No: 21-13121		**Date Sampled**	27/10/21				**Landfill Waste Acceptance Criteria Limits**		
Impact Geotechnical Ltd		**Time Sampled**	None Supplied				**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: KAQ Data		**TP / BH No**	ES36						
Project / Job Ref: P21.242		**Additional Refs**	None Supplied						
Order No: None Supplied		**Depth (m)**	0.05						
Reporting Date: 09/11/2021		**DETS Sample No**	572484						
Determinand	**Unit**	**MDL**							
TOC[MU]	%	< 0.1	1.5				3%	5%	6%
Loss on Ignition	%	< 0.01	3.20				--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil[MU]	mg/kg	< 10	13				500	--	--
Total PAH[MU]	mg/kg	< 1.7	2.5				100	--	--
pH[MU]	pH Units	N/a	9.2				--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.3				--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1	0.5	2	25
Barium[U]			< 0.02			< 0.2	20	100	300
Cadmium[U]			< 0.0005			< 0.005	0.04	1	5
Chromium[U]			< 0.005			< 0.05	0.5	10	70
Copper[U]			< 0.01			< 0.1	2	50	100
Mercury[U]			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum[U]			0.005			0.05	0.5	10	30
Nickel[U]			< 0.007			< 0.07	0.4	10	40
Lead[U]			< 0.005			< 0.05	0.5	10	50
Antimony[U]			< 0.005			< 0.05	0.06	0.7	5
Selenium[U]			< 0.005			< 0.05	0.1	0.5	7
Zinc[U]			0.005			0.05	4	50	200
Chloride[U]			2.2			22	800	15000	25000
Fluoride[U]			< 0.5			< 5	10	150	500
Sulphate[U]			72.9			729	1000	20000	50000
TDS			115			1150	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			10.7			107	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			91.2						
Moisture (%)			9.8						
Stage 1									
Volume Eluate L10 (litres)			0.89						

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 21-13121	
Impact Geotechnical Ltd	
Site Reference: KAQ Data	
Project / Job Ref: P21.242	
Order No: None Supplied	
Reporting Date: 09/11/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
572449	SH2 ES1	None Supplied	None Supplied	11.8	Brown clay with stones
572450	SH2 ES2	None Supplied	None Supplied	14.1	Brown clay
572451	SH2 ES3	None Supplied	None Supplied	15	Brown clay
572452	SH2 ES4	None Supplied	None Supplied	16.5	Brown clay
572453	SH2 ES5	None Supplied	None Supplied	15.3	Brown clay with stones and vegetation
572454	SH2 ES6	None Supplied	None Supplied	12.5	Brown clay
572455	SH1 ES7	None Supplied	None Supplied	10.2	Brown clay
572456	SH1 ES8	None Supplied	None Supplied	8.9	Brown clay
572457	SH1 ES9	None Supplied	None Supplied	14.7	Brown clay
572458	SH1 ES10	None Supplied	None Supplied	15.8	Brown clay
572459	SH3 ES11	None Supplied	None Supplied	9.4	Brown sandy clay with stones and tar
572460	ES12	None Supplied	0.20	10.6	Brown clay
572461	ES13	None Supplied	0.40	14.5	Brown clay
572462	ES14	None Supplied	0.40	11.8	Brown sandy clay with stones and brick
572463	ES15	None Supplied	0.15	10.9	Brown clayey sand with stones
572464	ES16	None Supplied	0.20	8.8	Brown clayey sand with stones and vegetation
572465	ES17	None Supplied	0.10	11.5	Brown clayey sand with stones
572466	ES18	None Supplied	0.05	11.8	Brown sandy clay with stones
572467	ES19	None Supplied	0.10	12.1	Brown clay with chalk
572468	ES20	None Supplied	0.50	14	Brown clay
572469	ES21	None Supplied	0.30	17.1	Brown clay with stones and brick
572470	ES22	None Supplied	0.20	13.4	Brown sandy clay with stones and brick
572471	ES23	None Supplied	0.10	10.7	Brown clay with stones and vegetation
572472	ES24	None Supplied	0.20	13.6	Brown clay with stones and brick
572473	ES25	None Supplied	0.50	13	Brown clay with chalk
572474	ES26	None Supplied	0.30	12.8	Brown sandy clay with stones and brick
572475	ES27	None Supplied	0.10	14	Brown clay with stones
572476	ES28	None Supplied	0.40	14.6	Brown clay
572477	ES29	None Supplied	0.50	14.6	Brown clay with chalk
572478	ES30	None Supplied	0.40	15.3	Brown clayey sand with stones and glass
572479	ES31	None Supplied	0.70	17.1	Brown clay
572480	ES32	None Supplied	0.10	9.2	Brown sandy clay with stones
572481	ES33	None Supplied	0.40	12.8	Brown sandy clay with stones
572482	ES34	None Supplied	0.30	16.6	Brown clay with stones
572483	ES35	None Supplied	0.10	8.8	Brown sandy clay with stones and vegetation
572484	ES36	None Supplied	0.05	10.9	Brown sandy clay with stones and vegetation
572485	ES37	None Supplied	0.20	11.6	Brown sandy clay with stones
572486	ES38	None Supplied	0.80	15.8	Brown clay

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 21-13121
Impact Geotechnical Ltd
Site Reference: KAQ Data
Project / Job Ref: P21.242
Order No: None Supplied
Reporting Date: 09/11/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

UKAS TESTING 4480

Water Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 21-13121
Impact Geotechnical Ltd
Site Reference: KAQ Data
Project / Job Ref: P21.242
Order No: None Supplied
Reporting Date: 09/11/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 – C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichlorometha	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered

Parameter	Matrix Type	Suite Reference	Expanded Uncertainity Measurement	Unit
TOC	Soil	BS EN 12457	20.0	%
Loss on Ignition	Soil	BS EN 12457	35.0	%
BTEX	Soil	BS EN 12457	14.0	%
Sum of PCBs	Soil	BS EN 12457	23.0	%
Mineral Oil	Soil	BS EN 12457	9.0	%
Total PAH	Soil	BS EN 12457	11.6	%
pH	Soil	BS EN 12457	0.28	Units
Acid Neutralisation Capacity	Soil	BS EN 12457	18.0	%
Arsenic	Leachate	BS EN 12457	18.7	%
Barium	Leachate	BS EN 12457	11.6	%
Cadmium	Leachate	BS EN 12457	20.3	%
Chromium	Leachate	BS EN 12457	18.3	%
Copper	Leachate	BS EN 12457	24.3	%
Mercury	Leachate	BS EN 12457	23.7	%
Molybdenum	Leachate	BS EN 12457	14.7	%
Nickel	Leachate	BS EN 12457	16.1	%
Lead	Leachate	BS EN 12457	15.7	%
Antimony	Leachate	BS EN 12457	17.9	%
Selenium	Leachate	BS EN 12457	22.0	%
Zinc	Leachate	BS EN 12457	17.4	%
Chloride	Leachate	BS EN 12457	15.3	%
Fluoride	Leachate	BS EN 12457	16.4	%
Sulphate	Leachate	BS EN 12457	20.6	%
TDS	Leachate	BS EN 12457	12.0	%
Phenol Index	Leachate	BS EN 12457	14.0	%
DOC	Leachate	BS EN 12457	10.0	%
Clay Content	Soil	BS 3882: 2015	15.0	%
Silt Content	Soil	BS 3882: 2015	14.0	%
Sand Content	Soil	BS 3882: 2015	13.0	%
Loss on Ignition	Soil	BS 3882: 2015	35.0	%
pH	Soil	BS 3882: 2015	0.14	Units
Carbonate	Soil	BS 3882: 2015	16.0	%
Total Nitrogen	Soil	BS 3882: 2015	12.0	%
Phosphorus (Extractable)	Soil	BS 3882: 2015	24.0	%
Potassium (Extractable)	Soil	BS 3882: 2015	20.0	%
Magnesium (Extractable)	Soil	BS 3882: 2015	26.0	%
Zinc	Soil	BS 3882: 2015	14.9	%
Copper	Soil	BS 3882: 2015	16.0	%
Nickel	Soil	BS 3882: 2015	17.7	%
Available Sodium	Soil	BS 3882: 2015	23.0	%
Available Calcium	Soil	BS 3882: 2015	23.0	%
Electrical Conductivity	Soil	BS 3882: 2015	10.0	%

APPENDIX E

Hazwaste Online Output

IMPACT GEOTECHNICAL

Waste Classification Report

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

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

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

ZA7JW-OQABN-KX8GD

Job name

P21.242

Description/Comments

Project

P21.242

Site

KAO Data Centre

Classified by

Name:
Ryan Gunn
Company:
Impact Geotechnical
Date:
15 Nov 2021 20:11 GMT
Telephone:
07874 880 537

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

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Job summary

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Ryan Gunn

Created date: 15 Nov 2021 20:11 GMT

Classification of sample: SH2 ES1

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

Sample details

Sample name:
SH2 ES1

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		59 mg/kg	1.126	66.427 mg/kg	0.00664 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	33 mg/kg	1.56	51.474 mg/kg	0.0033 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.976	77.383 mg/kg	0.00774 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		162 mg/kg	2.774	449.412 mg/kg	0.0449 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.1 pH		8.1 pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-912-4	206-44-0									
22		pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.074 %		

Key

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

Classification of sample: SH2 ES2

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

Sample details

Sample name:
SH2 ES2

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2	mg/kg	2.27	4.54	mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24	mg/kg	1.126	27.021	mg/kg	0.0027 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	25	mg/kg	1.56	38.995	mg/kg	0.0025 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1	mg/kg	1.353	1.353	mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.976	56.549	mg/kg	0.00565 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	5.108	mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		93	mg/kg	2.774	257.996	mg/kg	0.0258 %		
11	TPH (C6 to C40) petroleum group			TPH		<42	mg/kg		<42	mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2	mg/kg	1.884	3.768	mg/kg	0.000377 %		
14	pH			PH		8.1	pH		8.1	pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
			205-912-4	206-44-0									
22		pyrene				0.64	mg/kg		0.64	mg/kg	0.000064 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
										Total:	0.0471 %		

Key

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

Classification of sample: SH2 ES3

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

Sample details

Sample name:
SH2 ES3

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.126	23.644 mg/kg	0.00236 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22 mg/kg	1.56	34.316 mg/kg	0.0022 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.976	56.549 mg/kg	0.00565 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		97 mg/kg	2.774	269.092 mg/kg	0.0269 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		7.9 pH		7.9 pH	7.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
22		pyrene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-883-8	191-24-2									
										Total:	0.0478 %		

Key

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

Classification of sample: SH2 ES4

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

Sample details

Sample name:
SH2 ES4

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.976	56.549 mg/kg	0.00565 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		73 mg/kg	2.774	202.513 mg/kg	0.0203 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.1 pH		8.1 pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
22		pyrene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0404 %		

Key

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

Classification of sample: SH2 ES5

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

Sample details

Sample name:
SH2 ES5

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2	mg/kg	2.27	4.54	mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22	mg/kg	1.56	34.316	mg/kg	0.0022 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1	mg/kg	1.353	1.353	mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.976	59.525	mg/kg	0.00595 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	5.108	mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		75	mg/kg	2.774	208.061	mg/kg	0.0208 %		
11	TPH (C6 to C40) petroleum group			TPH		<42	mg/kg		<42	mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2	mg/kg	1.884	3.768	mg/kg	0.000377 %		
14	pH			PH		8	pH		8	pH	8pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			205-912-4	206-44-0									
22		pyrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-883-8	191-24-2									
										Total:	0.0413 %		

Key

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

Classification of sample: SH2 ES6

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

Sample details

Sample name:
SH2 ES6

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2	mg/kg	1.142	0.228	mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2	mg/kg	2.27	4.54	mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18	mg/kg	1.56	28.077	mg/kg	0.0018 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1	mg/kg	1.353	1.353	mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	53.573	mg/kg	0.00536 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	5.108	mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		64	mg/kg	2.774	177.545	mg/kg	0.0178 %		
11	TPH (C6 to C40) petroleum group			TPH		<42	mg/kg		<42	mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2	mg/kg	1.884	3.768	mg/kg	0.000377 %		
14	pH			PH		8	pH		8	pH	8pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0365 %		

Key

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

Classification of sample: SH1 ES7

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

Sample details

Sample name:
SH1 ES7

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	151 mg/kg	1.56	235.532 mg/kg	0.0151 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	41.668 mg/kg	0.00417 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		66 mg/kg	2.774	183.094 mg/kg	0.0183 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		10.2 pH		10.2 pH	10.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19	●	phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			201-581-5	85-01-8									
20	●	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
			205-912-4	206-44-0									
22	●	pyrene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
			205-883-8	191-24-2									
										Total:	0.0491 %		

Key

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

Classification of sample: SH1 ES8

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

Sample details

Sample name:
SH1 ES8

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	36.028 mg/kg	0.0036 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	31 mg/kg	1.56	48.354 mg/kg	0.0031 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	38.691 mg/kg	0.00387 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		82 mg/kg	2.774	227.48 mg/kg	0.0227 %		
11	TPH (C6 to C40) petroleum group			TPH		213 mg/kg		213 mg/kg	0.0213 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.1 pH		8.1 pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
			201-581-5	85-01-8									
20		anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			204-371-1	120-12-7									
21		fluoranthene				1.33	mg/kg		1.33	mg/kg	0.000133 %		
			205-912-4	206-44-0									
22		pyrene				1.22	mg/kg		1.22	mg/kg	0.000122 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.15	mg/kg		1.15	mg/kg	0.000115 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.88	mg/kg		0.88	mg/kg	0.000088 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.85	mg/kg		0.85	mg/kg	0.000085 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.82	mg/kg		0.82	mg/kg	0.000082 %		
			205-883-8	191-24-2									
										Total:	0.0604 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0213%)

Classification of sample: SH1 ES9

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

Sample details

Sample name:
SH1 ES9

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.126	23.644 mg/kg	0.00236 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.976	59.525 mg/kg	0.00595 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		71 mg/kg	2.774	196.964 mg/kg	0.0197 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		7.9 pH		7.9 pH	7.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0415 %		

Key

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

Classification of sample: SH1 ES10

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

Sample details

Sample name:
SH1 ES10

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.126	23.644 mg/kg	0.00236 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	33 mg/kg	1.56	51.474 mg/kg	0.0033 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	62.502 mg/kg	0.00625 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		77 mg/kg	2.774	213.609 mg/kg	0.0214 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		7.8 pH		7.8 pH	7.8 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			205-912-4	206-44-0									
22		pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-883-8	191-24-2									
										Total:	0.0443 %		

Key

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

Classification of sample: SH3 ES11

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

Sample details

Sample name:
SH3 ES11

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9 mg/kg	1.462	13.154 mg/kg	0.00132 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20 mg/kg	1.56	31.196 mg/kg	0.002 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9 mg/kg	2.976	26.786 mg/kg	0.00268 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		54 mg/kg	2.774	149.804 mg/kg	0.015 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.2 pH		8.2 pH	8.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
20		anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			204-371-1	120-12-7									
21		fluoranthene				1.61	mg/kg		1.61	mg/kg	0.000161 %		
			205-912-4	206-44-0									
22		pyrene				1.99	mg/kg		1.99	mg/kg	0.000199 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.93	mg/kg		0.93	mg/kg	0.000093 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.36	mg/kg		1.36	mg/kg	0.000136 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.87	mg/kg		1.87	mg/kg	0.000187 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.19	mg/kg		1.19	mg/kg	0.000119 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.14	mg/kg		1.14	mg/kg	0.000114 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.08	mg/kg		1.08	mg/kg	0.000108 %		
			205-883-8	191-24-2									
										Total:	0.0309 %		

Key

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

Classification of sample: ES12

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

Sample details

Sample name:
ES12

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	16.888 mg/kg	0.00169 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12 mg/kg	2.976	35.715 mg/kg	0.00357 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		47 mg/kg	2.774	130.385 mg/kg	0.013 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.7 pH		9.7 pH	9.7 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.91	mg/kg		0.91	mg/kg	0.000091 %		
			205-912-4	206-44-0									
22		pyrene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-883-8	191-24-2									
										Total:	0.0292 %		

Key

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

Classification of sample: ES13

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

Sample details

Sample name:
ES13

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17 mg/kg	1.56	26.517 mg/kg	0.0017 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		52 mg/kg	2.774	144.256 mg/kg	0.0144 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.4 pH		9.4 pH	9.4 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
			205-912-4	206-44-0									
22		pyrene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-883-8	191-24-2									
										Total:	0.0318 %		

Key

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

Classification of sample: ES14

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

Sample details

Sample name:
ES14

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	30.399 mg/kg	0.00304 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	60 mg/kg	1.56	93.589 mg/kg	0.006 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.976	32.739 mg/kg	0.00327 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		129 mg/kg	2.774	357.865 mg/kg	0.0358 %		
11	TPH (C6 to C40) petroleum group			TPH		268 mg/kg		268 mg/kg	0.0268 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.9 pH		9.9 pH	9.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				1.12	mg/kg		1.12	mg/kg	0.000112 %		
			201-581-5	85-01-8									
20		anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			204-371-1	120-12-7									
21		fluoranthene				2.25	mg/kg		2.25	mg/kg	0.000225 %		
			205-912-4	206-44-0									
22		pyrene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.41	mg/kg		1.41	mg/kg	0.000141 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.37	mg/kg		1.37	mg/kg	0.000137 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.71	mg/kg		1.71	mg/kg	0.000171 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
			205-883-8	191-24-2									
										Total:	0.0813 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0268%)

Classification of sample: ES15

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

Sample details

Sample name:
ES15

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	45.036 mg/kg	0.0045 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	97 mg/kg	1.56	151.302 mg/kg	0.0097 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	38.691 mg/kg	0.00387 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		284 mg/kg	2.774	787.858 mg/kg	0.0788 %		
11	TPH (C6 to C40) petroleum group			TPH		132 mg/kg		132 mg/kg	0.0132 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.8 pH		9.8 pH	9.8 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.19 mg/kg		0.19 mg/kg	0.000019 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
			201-581-5	85-01-8									
20		anthracene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			204-371-1	120-12-7									
21		fluoranthene				1.82	mg/kg		1.82	mg/kg	0.000182 %		
			205-912-4	206-44-0									
22		pyrene				2.32	mg/kg		2.32	mg/kg	0.000232 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.27	mg/kg		1.27	mg/kg	0.000127 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.18	mg/kg		1.18	mg/kg	0.000118 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.49	mg/kg		1.49	mg/kg	0.000149 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.67	mg/kg		0.67	mg/kg	0.000067 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
			205-883-8	191-24-2									
										Total:	0.117 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0132%)

Classification of sample: ES16

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

Sample details

Sample name:
ES16

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	19.14 mg/kg	0.00191 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	59 mg/kg	1.56	92.029 mg/kg	0.0059 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12 mg/kg	2.976	35.715 mg/kg	0.00357 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		142 mg/kg	2.774	393.929 mg/kg	0.0394 %		
11	TPH (C6 to C40) petroleum group			TPH		102 mg/kg		102 mg/kg	0.0102 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.5 pH		9.5 pH	9.5 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.14 mg/kg		0.14 mg/kg	0.000014 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.3 mg/kg		0.3 mg/kg	0.00003 %		
18	fluorene		201-695-5	86-73-7		0.15 mg/kg		0.15 mg/kg	0.000015 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				1.52	mg/kg		1.52	mg/kg	0.000152 %		
			201-581-5	85-01-8									
20		anthracene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
			204-371-1	120-12-7									
21		fluoranthene				2.39	mg/kg		2.39	mg/kg	0.000239 %		
			205-912-4	206-44-0									
22		pyrene				3.04	mg/kg		3.04	mg/kg	0.000304 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.76	mg/kg		1.76	mg/kg	0.000176 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.44	mg/kg		1.44	mg/kg	0.000144 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.91	mg/kg		1.91	mg/kg	0.000191 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.53	mg/kg		1.53	mg/kg	0.000153 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.84	mg/kg		0.84	mg/kg	0.000084 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
			205-883-8	191-24-2									
										Total:	0.0679 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0102%)

Classification of sample: ES17

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

Sample details

Sample name:
ES17

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	50 mg/kg	1.56	77.991 mg/kg	0.005 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		160 mg/kg	2.774	443.863 mg/kg	0.0444 %		
11	TPH (C6 to C40) petroleum group			TPH		211 mg/kg		211 mg/kg	0.0211 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.9 pH		9.9 pH	9.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.18 mg/kg		0.18 mg/kg	0.000018 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.43 mg/kg		0.43 mg/kg	0.000043 %		
18	fluorene		201-695-5	86-73-7		0.24 mg/kg		0.24 mg/kg	0.000024 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				2.27	mg/kg		2.27	mg/kg	0.000227 %		
			201-581-5	85-01-8									
20		anthracene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
			204-371-1	120-12-7									
21		fluoranthene				3.45	mg/kg		3.45	mg/kg	0.000345 %		
			205-912-4	206-44-0									
22		pyrene				3.92	mg/kg		3.92	mg/kg	0.000392 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.37	mg/kg		2.37	mg/kg	0.000237 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.99	mg/kg		1.99	mg/kg	0.000199 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				2.84	mg/kg		2.84	mg/kg	0.000284 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.04	mg/kg		1.04	mg/kg	0.000104 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2.42	mg/kg		2.42	mg/kg	0.000242 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.34	mg/kg		1.34	mg/kg	0.000134 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.18	mg/kg		1.18	mg/kg	0.000118 %		
			205-883-8	191-24-2									
										Total:	0.0868 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0211%)

Classification of sample: ES18

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

Sample details

Sample name:
ES18

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	37 mg/kg	1.56	57.713 mg/kg	0.0037 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	38.691 mg/kg	0.00387 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		78 mg/kg	2.774	216.383 mg/kg	0.0216 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.6 pH		9.6 pH	9.6 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.11 mg/kg		0.11 mg/kg	0.000011 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
20		anthracene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			204-371-1	120-12-7									
21		fluoranthene				1.34	mg/kg		1.34	mg/kg	0.000134 %		
			205-912-4	206-44-0									
22		pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.14	mg/kg		1.14	mg/kg	0.000114 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.03	mg/kg		1.03	mg/kg	0.000103 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.22	mg/kg		1.22	mg/kg	0.000122 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.02	mg/kg		1.02	mg/kg	0.000102 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			205-883-8	191-24-2									
										Total:	0.0414 %		

Key

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

Classification of sample: ES19

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

Sample details

Sample name:
ES19

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	15.762 mg/kg	0.00158 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10 mg/kg	1.56	15.598 mg/kg	0.001 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		44 mg/kg	2.774	122.062 mg/kg	0.0122 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.1 pH		8.1 pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19	●	phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20	●	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-912-4	206-44-0									
22	●	pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0288 %		

Key

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

Classification of sample: ES20

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

Sample details

Sample name:
ES20

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	20.462 mg/kg	0.00205 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	15.762 mg/kg	0.00158 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	18.718 mg/kg	0.0012 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.976	56.549 mg/kg	0.00565 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		50 mg/kg	2.774	138.707 mg/kg	0.0139 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8 pH		8 pH	8pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0314 %		

Key

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

Classification of sample: ES21

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

Sample details

Sample name:
ES21

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	53.573 mg/kg	0.00536 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		62 mg/kg	2.774	171.997 mg/kg	0.0172 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.4 pH		8.4 pH	8.4 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
			205-912-4	206-44-0									
22		pyrene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-883-8	191-24-2									
										Total:	0.0362 %		

Key

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

Classification of sample: ES22

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

Sample details

Sample name:
ES22

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	38 mg/kg	1.56	59.273 mg/kg	0.0038 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	41.668 mg/kg	0.00417 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		123 mg/kg	2.774	341.22 mg/kg	0.0341 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.3 pH		9.3 pH	9.3 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.13 mg/kg		0.13 mg/kg	0.000013 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
			201-581-5	85-01-8									
20		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21		fluoranthene				1.42	mg/kg		1.42	mg/kg	0.000142 %		
			205-912-4	206-44-0									
22		pyrene				1.42	mg/kg		1.42	mg/kg	0.000142 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.19	mg/kg		1.19	mg/kg	0.000119 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.03	mg/kg		1.03	mg/kg	0.000103 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
			205-883-8	191-24-2									
										Total:	0.0544 %		

Key

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

Classification of sample: ES23

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

Sample details

Sample name:
ES23

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.126	21.392 mg/kg	0.00214 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		61 mg/kg	2.774	169.223 mg/kg	0.0169 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.3 pH		9.3 pH	9.3 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
			205-912-4	206-44-0									
22		pyrene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			205-883-8	191-24-2									
										Total:	0.0362 %		

Key

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

Classification of sample: ES24

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

Sample details

Sample name:
ES24

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.976	47.62 mg/kg	0.00476 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		65 mg/kg	2.774	180.32 mg/kg	0.018 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.6 pH		9.6 pH	9.6 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
20		anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			204-371-1	120-12-7									
21		fluoranthene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
			205-912-4	206-44-0									
22		pyrene				0.79	mg/kg		0.79	mg/kg	0.000079 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-883-8	191-24-2									
										Total:	0.0377 %		

Key

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

Classification of sample: ES25

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

Sample details

Sample name:
ES25

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		68 mg/kg	2.774	188.642 mg/kg	0.0189 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		10 pH		10 pH	10pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0384 %		

Key

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

Classification of sample: ES26

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

Sample details

Sample name:
ES26

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42 mg/kg	1.56	65.512 mg/kg	0.0042 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		143 mg/kg	2.774	396.703 mg/kg	0.0397 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.3 pH		9.3 pH	9.3 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
			201-581-5	85-01-8									
20		anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			204-371-1	120-12-7									
21		fluoranthene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
			205-912-4	206-44-0									
22		pyrene				0.92	mg/kg		0.92	mg/kg	0.000092 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.61	mg/kg		0.61	mg/kg	0.000061 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-883-8	191-24-2									
										Total:	0.0605 %		

Key

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

Classification of sample: ES27

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

Sample details

Sample name:
ES27

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.1 mg/kg	1.353	1.489 mg/kg	0.000149 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		81 mg/kg	2.774	224.706 mg/kg	0.0225 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8 pH		8 pH	8pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.64	mg/kg		0.64	mg/kg	0.000064 %		
			205-912-4	206-44-0									
22		pyrene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			205-883-8	191-24-2									
										Total:	0.042 %		

Key

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

Classification of sample: ES28

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

Sample details

Sample name:
ES28

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	17.539 mg/kg	0.00175 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	15.762 mg/kg	0.00158 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10 mg/kg	1.56	15.598 mg/kg	0.001 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		48 mg/kg	2.774	133.159 mg/kg	0.0133 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.1 pH		8.1 pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-912-4	206-44-0									
22		pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0299 %		

Key

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

Classification of sample: ES29

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

Sample details

Sample name:
ES29

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	14.637 mg/kg	0.00146 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	18.718 mg/kg	0.0012 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42 mg/kg	2.774	116.514 mg/kg	0.0117 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.1 pH		9.1 pH	9.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-912-4	206-44-0									
22		pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0278 %		

Key

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

Classification of sample: ES30

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

Sample details

Sample name:
ES30

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	50 mg/kg	1.56	77.991 mg/kg	0.005 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	38.691 mg/kg	0.00387 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		138 mg/kg	2.774	382.832 mg/kg	0.0383 %		
11	TPH (C6 to C40) petroleum group			TPH		111 mg/kg		111 mg/kg	0.0111 %		
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		10.1 pH		10.1 pH	10.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.13 mg/kg		0.13 mg/kg	0.000013 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.25 mg/kg		0.25 mg/kg	0.000025 %		
18	fluorene		201-695-5	86-73-7		0.13 mg/kg		0.13 mg/kg	0.000013 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				1.36	mg/kg		1.36	mg/kg	0.000136 %		
			201-581-5	85-01-8									
20		anthracene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
			204-371-1	120-12-7									
21		fluoranthene				2.28	mg/kg		2.28	mg/kg	0.000228 %		
			205-912-4	206-44-0									
22		pyrene				2.77	mg/kg		2.77	mg/kg	0.000277 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.61	mg/kg		1.61	mg/kg	0.000161 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.42	mg/kg		1.42	mg/kg	0.000142 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.76	mg/kg		1.76	mg/kg	0.000176 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.33	mg/kg		1.33	mg/kg	0.000133 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
			205-883-8	191-24-2									
										Total:	0.0674 %		

Key

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

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 WM3 Table C3.1

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0111%)

Classification of sample: ES31

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

Sample details

Sample name:
ES31

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	14.637 mg/kg	0.00146 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14 mg/kg	1.56	21.837 mg/kg	0.0014 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	41.668 mg/kg	0.00417 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		64 mg/kg	2.774	177.545 mg/kg	0.0178 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		7.9 pH		7.9 pH	7.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.36	mg/kg		0.36	mg/kg	0.000036 %		
			205-912-4	206-44-0									
22		pyrene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.034 %		

Key

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

Classification of sample: ES32

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

Sample details

Sample name:
ES32

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	14.637 mg/kg	0.00146 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	35 mg/kg	1.56	54.594 mg/kg	0.0035 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8 mg/kg	2.976	23.81 mg/kg	0.00238 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		77 mg/kg	2.774	213.609 mg/kg	0.0214 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		10.4 pH		10.4 pH	10.4 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.15 mg/kg		0.15 mg/kg	0.000015 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
			201-581-5	85-01-8									
20		anthracene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			204-371-1	120-12-7									
21		fluoranthene				1.48	mg/kg		1.48	mg/kg	0.000148 %		
			205-912-4	206-44-0									
22		pyrene				1.76	mg/kg		1.76	mg/kg	0.000176 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.89	mg/kg		0.89	mg/kg	0.000089 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.05	mg/kg		1.05	mg/kg	0.000105 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
			205-883-8	191-24-2									
										Total:	0.0379 %		

Key

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

Classification of sample: ES33

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

Sample details

Sample name:
ES33

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	15.762 mg/kg	0.00158 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	29 mg/kg	1.56	45.235 mg/kg	0.0029 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		60 mg/kg	2.774	166.449 mg/kg	0.0166 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		11.2 pH		11.2 pH	11.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-912-4	206-44-0									
22		pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.036 %		

Key

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

Classification of sample: ES34

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

Sample details

Sample name:
ES34

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	19.14 mg/kg	0.00191 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	156 mg/kg	1.56	243.331 mg/kg	0.0156 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.976	59.525 mg/kg	0.00595 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		73 mg/kg	2.774	202.513 mg/kg	0.0203 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		**<LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.8 pH		8.8 pH	8.8 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0541 %		

Key

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

Classification of sample: ES35

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

Sample details

Sample name:
ES35

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	51 mg/kg	1.56	79.551 mg/kg	0.0051 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	38.691 mg/kg	0.00387 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		70 mg/kg	2.774	194.19 mg/kg	0.0194 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		10.5 pH		10.5 pH	10.5 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
			201-581-5	85-01-8									
20		anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			204-371-1	120-12-7									
21		fluoranthene				1.49	mg/kg		1.49	mg/kg	0.000149 %		
			205-912-4	206-44-0									
22		pyrene				1.92	mg/kg		1.92	mg/kg	0.000192 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.09	mg/kg		1.09	mg/kg	0.000109 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.02	mg/kg		1.02	mg/kg	0.000102 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.18	mg/kg		1.18	mg/kg	0.000118 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.98	mg/kg		0.98	mg/kg	0.000098 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.64	mg/kg		0.64	mg/kg	0.000064 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			205-883-8	191-24-2									
										Total:	0.0411 %		

Key

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

Classification of sample: ES36

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

Sample details

Sample name:
ES36

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	51 mg/kg	1.56	79.551 mg/kg	0.0051 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	44.644 mg/kg	0.00446 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		89 mg/kg	2.774	246.899 mg/kg	0.0247 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.2 pH		9.2 pH	9.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			205-912-4	206-44-0									
22		pyrene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-883-8	191-24-2									
										Total:	0.0469 %		

Key

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

Classification of sample: ES37

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

Sample details

Sample name:
ES37

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.126	23.644 mg/kg	0.00236 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	54 mg/kg	1.56	84.23 mg/kg	0.0054 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.976	32.739 mg/kg	0.00327 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		96 mg/kg	2.774	266.318 mg/kg	0.0266 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		9.9 pH		9.9 pH	9.9 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.2 mg/kg		0.2 mg/kg	0.00002 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				1.38	mg/kg		1.38	mg/kg	0.000138 %		
			201-581-5	85-01-8									
20		anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			204-371-1	120-12-7									
21		fluoranthene				2.35	mg/kg		2.35	mg/kg	0.000235 %		
			205-912-4	206-44-0									
22		pyrene				2.74	mg/kg		2.74	mg/kg	0.000274 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.58	mg/kg		1.58	mg/kg	0.000158 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.45	mg/kg		1.45	mg/kg	0.000145 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.65	mg/kg		1.65	mg/kg	0.000165 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.34	mg/kg		1.34	mg/kg	0.000134 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.79	mg/kg		0.79	mg/kg	0.000079 %		
			205-883-8	191-24-2									
										Total:	0.0484 %		

Key

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

Classification of sample: ES38

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

Sample details

Sample name:
ES38

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

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				2 mg/kg	2.27	4.54 mg/kg	0.000454 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	19.14 mg/kg	0.00191 %		
6	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	24 mg/kg	1.56	37.436 mg/kg	0.0024 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	53.573 mg/kg	0.00536 %		
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	5.108 mg/kg	0.000511 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		59 mg/kg	2.774	163.675 mg/kg	0.0164 %		
11	TPH (C6 to C40) petroleum group			TPH		<42 mg/kg		<42 mg/kg	<0.0042 %		<**LOD**
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				2 mg/kg	1.884	3.768 mg/kg	0.000377 %		
14	pH			PH		8.7 pH		8.7 pH	8.7 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.1 mg/kg	0.00001 %		
16	acenaphthylene		205-917-1	208-96-8		0.1 mg/kg		0.1 mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.1 mg/kg	0.00001 %		
18	fluorene		201-695-5	86-73-7		0.1 mg/kg		0.1 mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-912-4	206-44-0									
22		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
										Total:	0.0358 %		

Key

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

Appendix A: Classifier defined and non CLP 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

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

confirm TPH has NOT arisen from diesel or petrol

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

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

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

pH (CAS Number: PH)

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

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

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

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2021.293.4891.9295 (20 Oct 2021)
HazWasteOnline Database: 2021.293.4891.9295 (20 Oct 2021)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2019 - UK: 2019 No. 720 of 27th March 2019
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019