A585 Windy Harbour to Skippool Improvement Scheme

TR010035

7.6 Ground Investigation Report

APFP Regulation 5(2)(q)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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Infrastructure Planning

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The Infrastructure Planning
(Applications: Prescribed Forms and
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A585 Windy Harbour to Skippool Improvement Scheme

Development Consent Order 20[ ]

GROUND INVESTIGATION REPORT

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ABBREVIATIONS

Abbreviations	Meaning
AGS	The Association of Geotechnical and Geoenvironmental Specialists (AGS)
AOD	Above Ordinance Datum
BGS	British Geological Survey
BH	Borehole
BS	British Standard
CBR	California Bearing Ratio
CPT	Cone Penetration Testing
DCP	Dynamic Cone Penetration
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
GI	Ground Investigation
HA GDMS	Highways England Geotechnical Data Management System
HE	Highways England
kPa	Kilo Pascal
mbgl	Metres below ground level
MCV	Moisture Content Value
OMC	Optimum Moisture Content
PSSR	Preliminary Sources Study Report
RBS	Route Based Strategy
RIS	Road Investment Strategy
SRN	Strategic Road Network
TFD	Tidal Flat Deposit
VST	Hand Vane Shear test
HD22/08	Highways England – Managing geotechnical risk.

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1 EXECUTIVE SUMMARY

1.1.1 Arcadis Consulting (UK) Limited was commissioned by Highways England to design and provide technical assistance (on site) for a Ground Investigation along the corridor of the proposed A585 road improvement scheme, between Skippool Junction and Windy Harbour Junction.

1.1.2 This report presents the interpretation of ground conditions, soil properties and engineering parameters required for the preliminary design. Sources of information included the current and historical Ground Investigations.

1.1.3 The Ground Investigation confirmed findings from published geological information.

1.1.4 The ground conditions along the Scheme are varied. Generally, it comprises Tidal Flat Deposits, Glacial Till, and Glaciofluvial Deposits overlying the Singleton Mudstone Member. Localised Peat was encountered at the south of the proposed Poulton Junction, and at the bottom of the valley west of Lodge Lane. Alluvium deposits were encountered at the tie-in to the existing A585. Tidal Flat Deposits are located within the Skippool Channel. Localised Made Ground was investigated at three locations which included Skippool Bridge, Poulton Junction and tie-in to A585. Along the existing A585, the Made Ground consists of engineered fill associated with road construction.

1.1.5 Groundwater was encountered at varying depths across the scheme during fieldworks, and monitoring is ongoing.

1.1.6 Two waterlogged areas were identified on site which are at Skippool channel and at east of Lodge Lane which are in the direct vicinity of the proposed route.

1.1.7 A review of contamination data has determined that there are no significant risks.

1.1.8 Following interpretation of the ground investigation, further intrusive works will be required to establish geological information at specific areas. These are:

- Embankment-loading test between areas of CPT14 and CPT16.
- Number of boreholes will need to be undertaken at Lodge Lane once overhead cables are removed. Design can be carried out with some limited risk prior to receipt of information.
- An additional borehole will be required at Grange Footbridge to supplement pile designs to mitigate risk due to incomplete information.
- An additional borehole is required at Skippool Bridge adjacent to the south-eastern abutments which was not previously possible due to access issues.
- A Test Pile is deemed to be necessary due to the level of risk and lack of information in the direct vicinity of Skippool Bridge.
- A borehole will be required in the area of a previously existing historical pond which had been backfilled. This feature lies directly within the route east of Lodge Lane (chainage 3500m).
- An additional borehole is required at Skippool Junction for the clough culvert extension.

1.1.9 A review of historical features has been undertaken as part of this report.

2 INTRODUCTION

2.1 Overview

2.1.1 The Department for Transport (DfT) outlined in its Road Investment Strategy (RIS) Statement 2014, its aims for the Strategic Road Network (SRN). Part of this was to identify key investment needs on the SRN so Highways England developed a Route Based Strategy (RBS) to focus on those routes in the greatest need of improvement. The A585 Windy Harbour to Skippool Improvement Scheme (the Scheme) was identified as a priority and included in the RIS for delivery in Road Period 1 (to start construction by Spring 2020).

2.1.2 In April 2014, the then Highways Agency produced the South Pennines Route Strategy (SPRS) document. The South Pennines route includes the whole of the A585 from the M55 through to Fleetwood. The SPRS reports on the planned growth for the area and the possible new uses for the Port of Fleetwood. This implies a significant increase in demand for the A585 route. Consequently, ensuring that the route would accommodate any future growth is a key priority.

2.1.3 Arcadis Consulting (UK) Limited was commissioned by Highway England to design and provide technical assistance (on site) for the Ground Investigation work for the Scheme.

2.1.4 This report includes the geological information presented in the Preliminary Source Study Report (PSSR) prepared by Arcadis Consulting (UK) Limited and a recently undertaken Ground Investigation specific for the scheme development.

2.2 Scope and objective of the report

2.2.1 The contents of this report relate to a Ground Investigation designed by Arcadis Consulting (UK) Limited, undertaken by SOCOTEC Ground Investigation (Sub-Contractor) and managed by Interserve (Principal Contractor) between 8 January 2018 and 20 March 2018.

2.2.2 This Ground Investigation Report follows the best practices specified by The Association of Geotechnical and Geoenvironmental Specialists (AGS) guidelines and BS5930 Code of Practice for Ground Investigations. The structure of this report is formulated according to the Design Manual for Roads and Bridges (DMRB) and HD22/08.

2.2.3 The objective of this investigation is to characterise the ground conditions and to provide the soil properties and engineering parameters required for the preliminary design of the new road, associated junction arrangements and structures.

2.3 Description of the Scheme

2.3.1 The Scheme is to provide an improvement to 4.85km of the existing single carriageway A585 trunk road route that extends in a generally north west direction for approximately 19km between M55 Junction 3 and the Port of Fleetwood at the northern end of the Fylde Peninsula. The study area presented on Figure 2-1 relates the engineering and design study area.

Figure 2-1:Description of the Scheme - A585(T) Route and Study Area

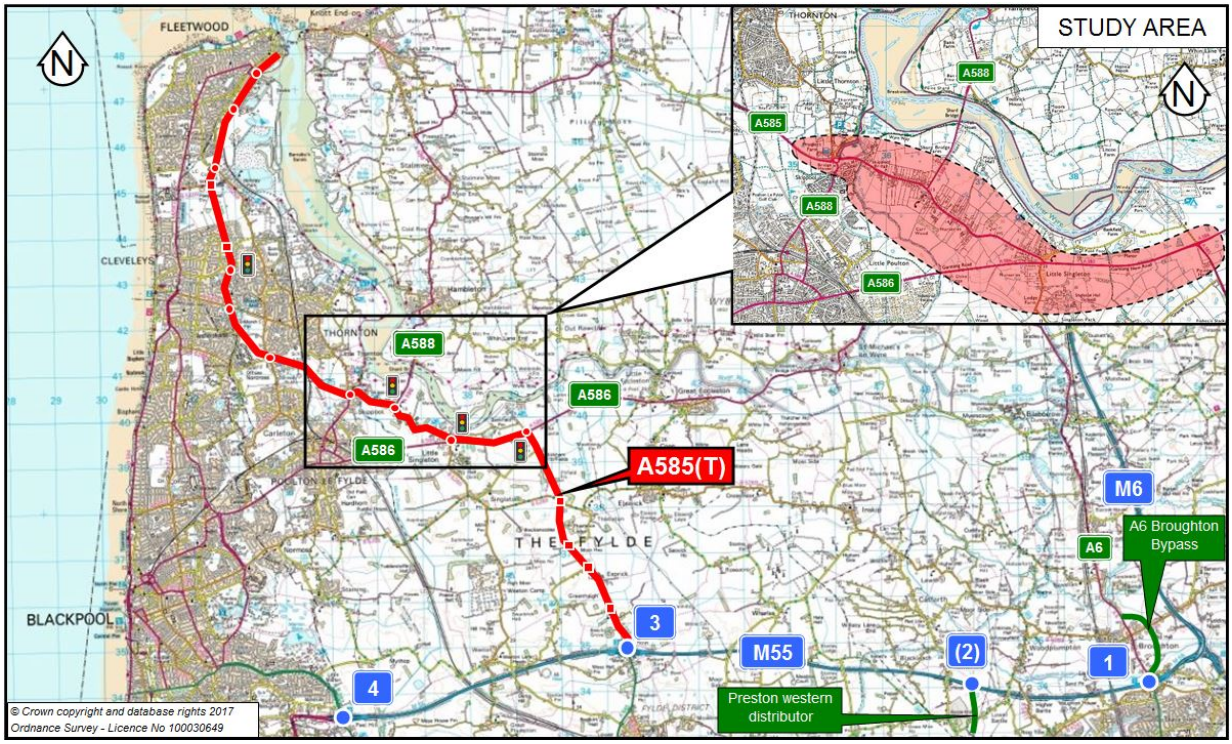
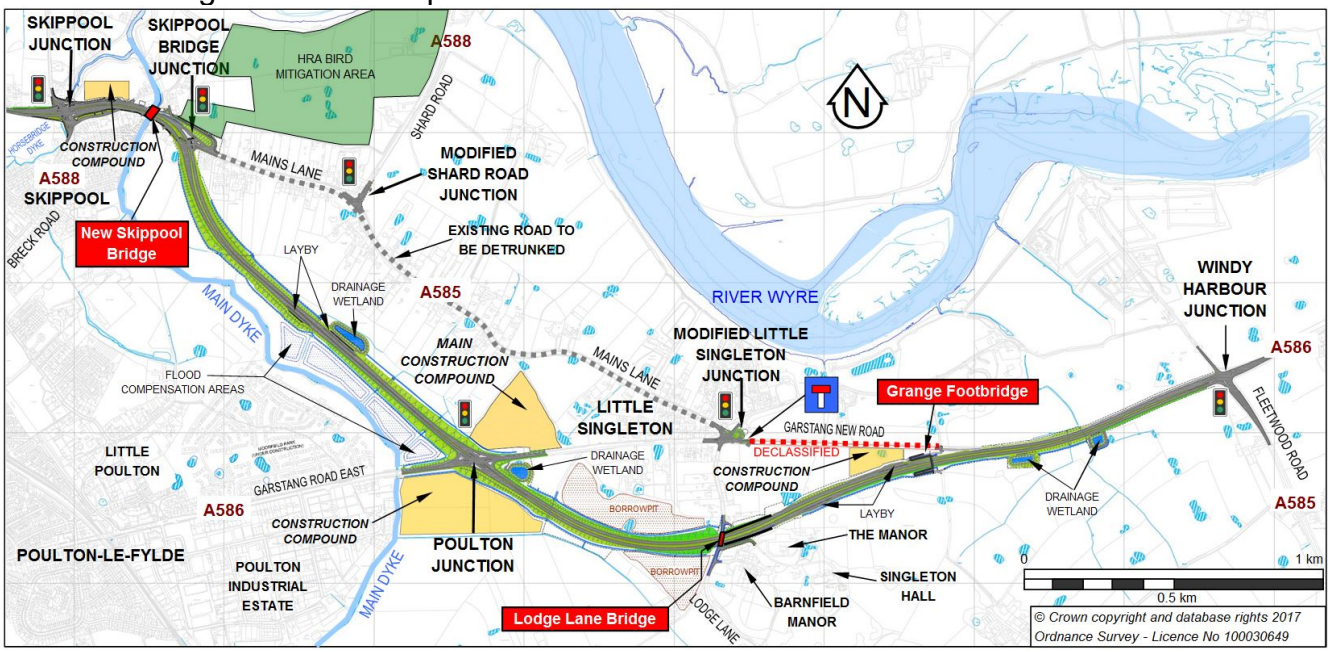


Figure 2-2: Description of the Scheme - The Scheme



2.3.1 The Scheme includes the following components (refer to Figure 2-1 and in more detail on Figure 2-2):

- 4.85km (3 miles) of new 2-lane, all-purpose, dual-carriageway bypass connecting Windy Harbour Junction and Skippool Junction
- Four new junctions comprising:
  - Conversion of Skippool Junction to a traffic signal-controlled crossroads

with A588 Breck Road and B5412 Skippool Road

- Skippool Bridge Junction in the form of a 3-arm traffic signal-controlled junction with the existing Mains Lane
- Poulton Junction in the form of a signal-controlled crossroads connecting the new bypass to A586 Garstang Road East
- Modification to Little Singleton Junction (also known as Five Lane Ends) to accommodate U-turning traffic including buses

- Three new major structures comprising:
  - Skippool Bridge
  - Lodge Lane Bridge
  - Grange Footbridge
- Four construction compounds
- Alterations to the existing road network on completion of the bypass include: de-trunking the A585 between Skippool Bridge Junction and the end of Garstang New Road east of Little Singleton; applying a reduction in speed limit to 30mph and providing a combined footway/cycleway along Mains Lane between Shard Road Junction and Little Singleton; altering Garstang New Road east of Little Singleton to permit restricted access to farmers' fields and provide a shared footway/cycleway route between Windy Harbour Junction and Little Singleton; applying a reduced speed limit of 30mph along Garstang Road East between the proposed Poulton Junction and Little Singleton and upgrading the lighting along Mains Lane and Garstang Road East
- Associated works for temporary access, temporary lay-down and work areas and ancillary works

2.4 Site Description

2.4.1 The site is situated south of the River Wyre estuary. The proposed route bypasses the village of Little Singleton, which lies on a ridge above the River Wyre. A substantial proportion of the route runs through agricultural fields. There are residential properties at the south side of Lodge Lane cutting.

2.4.2 At Skippool, a north-south trending valley is present through which runs the Main Dyke that separates Poulton-Le-Fylde and Singleton. The ground on either side of the Main Dyke is subject to flooding even though it is protected from tidal surges by a gate/barrier at Skippool. The general ground conditions are wet and boggy, particularly along the Main Dyke that is often flooded during the winter. The Main Dyke area lies at an elevation of about 4m to 5m AOD. A secondary valley runs west to east at the point where Garstang Road East that links Little Singleton to Poulton-le-Fylde crosses the Main Dyke. From this valley, the ground rises to Lodge Lane (23mAOD) before gently falling down towards the River Wyre and the existing A585 at Windy Harbour junction (7mAOD).

2.4.3 Apart from the Main Dyke two other streams flow across the site. In the west Skippool Clough flows in a culvert beneath Skippool junction into the River Wyre. In the east, 1km west of Windy Harbour Junction a minor stream flows south to-north towards the River Wyre crossing beneath the existing A585.

2.4.4 The longitudinal section of the existing and proposed ground levels is provided on the geological plan and profile drawings HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3004 to 3011, placed in Appendix B.

2.5 Geotechnical Category of Project

2.5.1 The scheme has been classified as a Geotechnical Category 2 scheme following the detailed guidance specified in Eurocode 7: BS-EN 1997-1:2004 and HD22/08.

2.6 Other Relevant Information

2.6.1 The following reports which have been developed for the scheme to date are relevant to the geotechnical aspects of this scheme. These documents are not attached with this report; however, they could be assessed online on the Highway England website with the HAGDMS Number where provided.

- Statement of Intent, Document No: HE548643-HYD-GEN-A585-RP-GE-1010, HA GDMS No: 28847
- Preliminary Source Study Report, Document No: HE548643-ARC-EGT-A585-RP-GE-2007, HAGDMS No: 29168
- Flood Risk Assessment, Document No: HE548643-ARC-GEN-A585-RP-EWE-2023
- Historical maps purchased from Groundsure were reviewed and interpreted to form part of the contributions to this report (refer to Chapter 3).

3 EXISTING INFORMATION

3.1.1 This report utilises the sources of information referenced in the PSSR, which are highlighted in the following sub-sections.

3.1.2 Key sources of information include:

- the Factual Report on the recent ground investigation, Document Number F7059-17 (April 2018),
- historical Ordnance Survey maps in digital format,
- geological maps obtained from Groundsure in GIS format,
- geological memoirs and
- HAGDMS data.

3.2 Topographical maps (old and recent)

3.2.1 A topographical map of the site area, attached in Appendix A, has been prepared using LIDAR data and it is shown on Drawing Number: HE58643-ARC-HGT-SZ_ZZ000-DR-CE-3001 Sheets A1-01 to A1-03. The area is also shown on the 1:50,000 scale Landranger Map Sheet 102, Preston, Blackpool and surrounding area, and OS Explorer map for Blackpool and Preston, Sheet 286, 1:25,000 scale.

3.2.2 Historical maps were reviewed to provide details of the site development. All historical maps are summarised in Table 3-1:

- Historical maps: https://www.old-maps.co.uk/
- Historical maps in digital format (GIS) purchased from Groundsure

Table 3-1: Historic Maps Review Booklet

Historic Maps review Booklet (Viewer Scale = 1:5,000)				
Year	Sheet 1	Sheet 2	Sheet 3	Sheet 4
1847/1848	1:10,650	1:10,650	1:10,650	1:10,650
1891	1:10,650	1:10,650	1:10,650	1:10,650
1910	1:10,650	1:10,650	1:10,650	1:10,650
1930/1931	1:10,650	1:10,650	1:10,650	1:10,650
1938	1:10,650	1:10,650	1:10,650	1:10,650
1951	1:10,650	1:10,650	1:10,650	1:10,650
1968/1969	1:10,000	1:10,000	-	-
1985/1992	1:10,000	1:10,000	1:10,000	1:10,000
1993/1994	-	-	1:2,500	1:2,500

3.3 Geological maps and memoirs

3.3.1 To establish the geology of the site, the following geological maps and memoirs were consulted:

- British Geological Memoir (Sheet 66 England and Wales): Geology of the country around Blackpool
- British Geological Survey. 1:50,000 Solid and Drift Geology, Sheet No 66, 1975
- British Geological Map (GIS): 1:10,000 superficial geology
- British Geological Map (GIS): 1:10,000 bedrock
- BGS Recorded Mineral Sites
- Collapsible ground Stability Hazards
- Compressible Ground Stability Hazards
- Ground Dissolution Stability Hazards
- Landslide Ground Stability Hazards
- Running Sand Ground Stability Hazards
- Shrinking or swelling Clay Ground Stability Hazards
- Shallow mining hazards

3.3.2 The geology of the site comprises Glacial deposits and Tidal Flat deposits along where the Main Dyke flows.

3.4 Aerial photographs

3.4.1 Aerial photos reviewed from Lancashire County Council's Mario website[1] showed minor changes through the scheme over the period between the 1940s and 1960s.

3.5 Records of mines and mineral deposits

3.5.1 Based on available information on the historical activities along the proposed corridor, it is unlikely that the immediate site of the scheme may be affected by current and historical mining activities, and mineral deposit works. In addition, the area is not considered to be affected by mining of salt that has generally been undertaken regionally. Therefore, for geotechnical investigation purposes this site is assumed as greenfield.

3.6 Land use and soil survey information

3.6.1 The land along the route corridor is mainly agricultural with isolated residential buildings. The details of land use within the specific sections of the route corridor is shown in Table 3-2

[1] http://mario.lancashire.gov.uk/agsmario/default.aspx

Table 3-2: Current land use along the route corridor

Location (m)	Area	Current land use
CH: 20 - 650	Skippool junction to Skippool bridge	Predominantly highway road with adjacent private residential buildings to the south, and a petrol station adjacent to Skippool Bridge; North west of Skippool Bridge is a site currently being developed for offices (Keyworker Homes).
CH: 650 - 3090	Mains Lane to Lodge Lane	Agricultural land.
CH: 3090 - 3200	Lodge Lane	Isolated residential properties comprising of Singleton Manor, Bankfield Manor and the Manor in a parkland setting.
CH: 3200 - 4000	Lodge Lane to existing A585	Agricultural land.
CH: 4000 - 4800	Along the existing road	Material reprocessing facility to north of the existing road and agricultural land to south.

3.7 Archaeological and historical investigations

3.7.1 Evidence of human activity or settlement during the Roman and Medieval periods is present in the area. A Roman road ran north-south passing through the eastern outskirts of Poulton-Le-Fylde to cross the A585 at the northern limits of the Study Area.

3.7.2 Recently a large settlement including roundhouses was uncovered to the west of Main Dyke on the north side of the A586 at Poulton. (Oxford Archaeology North, May 2008)

3.7.3 For further information about archaeological investigations refer to the Environmental Statement (document reference TR010035/APP/6.7).

3.8 Existing ground investigations

3.8.1 There are several records of previous ground investigation studies relating to A585 and the surrounding area relevant to the proposed scheme project. These documents can be assessed from the Highways England Geotechnical Data Management System (HA GDMS) and the British Geological Survey (BGS) records.

3.8.2 A selection of historical studies relevant to this study are presented in Table 3-3.

Table 3-3: Relevant Historical Reports

Report Title	Author/ Document	Year	HAGDMS No.	Location
A585 Singleton Crossroads	Soil Mechanics/SI report	Nov-05	20636	Singleton Crossroads
A585 Windy Harbour Junction	AmeyMouchel/Geotechnical Risk Assessment and SI report	Nov-05	20648	Windy Harbour Junction
A585 Windy Harbour Junction Improvements	EM Highway Services Limited/Geotechnical Design Report	Feb-15	27976	Singleton to Windy Harbour
A585 Windy Harbour Junction Improvements	EM Highway Services Limited/Ground Investigation Report	Aug-14	27803	Singleton to Windy Harbour
A585(T) Singleton Crossroads	AmeyMouchel/PSSR	Sep-04	20790	Singleton Cross on the A585 Trunk Road
MAC Contract - Area 13, A585 Norcross to Skippool Cycleway	Enterprise Mouchel/GIR	Mar-11	25881	Norcross to Skippool
MAC Contract - Area 13, A585 Singleton Crossroads	Enterprise Mouchel/PSSR	Jun-12	26641	Little Singleton
MAC Contract - Area 13, A585 Singleton to Windy Harbour Widening	Enterprise Mouchel/GIR	Jan-10	24203	Singleton to Windy Harbour
MAC Contract - Area 13, A585 Windy Harbour Junction and Roadside Facilities	Amey Mouchel/Annex A	Jun-10	25266	Windy Harbour Junction
A585 Norcross to M55 Link	Norwest Holst Soil Engineering Ltd/Site Investigation Report	Nov-90	3936	A585 Norcross to M55 link

3.8.3 A number of previous ground investigations relevant to the route are summarised in Table 3-4 and presented on the GI location plan, Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3001 Sheets A1-01 to A1-03.

Table 3-4: Previous ground investigations

BH References	Report Title	Date
SD34SE64/BGS-SD34SE65/BGS	Enterprise Mouchel - A585 Norcross to Skippool Cycleway Ground Investigation Report	2011
BH11/3936 to BH15/3936	Norwest Holst Soil Engineering Ltd. Site Investigation Report - A585 Norcross to M55 Link	1990
TP101/Rec to TP106/Rec CP101/Rec to CP103/Rec	REC Geo-Environmental Site Investigation - Mains Lane, Poulton-Le-Fylde (Keyworkers Homes)	2015
BH5/2/28880 to BH5/3/28880	Amey - Geotechnical Design Report - A585 Road Crossing, Mains Lane, Poulton Le Fylde	2002
BH649/1/SB	LCC - Skippool Bridge A585 Kirkham Fleetwood Road General Arrangement Drawing	1973
HDTP201/09/24203-HDTP205/09/24203 WS101/09/24203-WS106/09/24203	Amey Mouchel - A585 Singleton to Windy Harbour Widening Ground Investigation Report	2010
SD33NE10/BGS-SD33NE14/BGS	BGS	1974
TP302/13/27803 WS301/13/27803-WS304/13/27803	EM - A585 Windy Harbour Junction Improvements Ground Investigation Report	2014
WS1/20648 to WS2/20648	Amey Mouchel - A585 Windy Harbour Junction Stage 1 & 2 Geotechnical Risk Assessment	2005

3.9 Consultation with statutory bodies and agencies

3.9.1 Discussions were held, and views exchanged with the affected local authorities - Lancashire County Council, Wyre and Fylde Borough Council - regarding the Scheme.

3.9.2 No further contact with the Lancashire County Council in respect of geotechnical information was made after it was revealed that the geotechnical information on the route corridor is limited.

3.9.3 A number of organisations have been consulted including:

- Environment Agency
- Natural England
- Historic England
- United Utilities (water supply and sewers)
- Electricity North-west
- Cadent (National Grid) – gas distribution
- GTC – gas supply to Singleton Hall
- British Telecom (Openreach) – telecom ducts and overhead cables
- NPL Group (Thornton Facilities Management Ltd) – private ethylene pipeline

3.10 Flood Records

3.10.1 According to the Environment Agency flood risk map, the scheme area is globally classified as a zone with higher potential risk of flooding. However, there are sections along the proposed road corridor that are situated at higher elevation with lower susceptibility to flooding. For further details about flood risk refer to the Flood Risk Assessment (document reference TR010035/APP/5.2).

3.11 Potential contaminations

3.11.1 Potential sources of contamination have been identified including landfills, other infilled ground, petrol stations and sewage facilities. Further details are included in the Geo-Environmental Risk Assessment presented in Appendix H.

3.11.2 Natural deposits of peat are present along the route. Peat is a potential source of ground gas including methane and carbon dioxide.

3.12 Other Relevant Information

Historical Maps Review

3.12.1 The detailed review of historical maps is presented in Drawings No: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3017 to 3020 attached in Appendix E. The location of features referenced in the table are shown on the plan. The major changes to the area comprise the diversion of the original road at Skippool bridge in the early part of the 20th century and the construction of the road between Little Singleton and Poulton-le-Fylde in the 1930s. There are numerous ponds in the area some of which have disappeared over time.

3.13 Hydrogeology

3.13.1 A summary of baseline data is presented in Table 3-5

Table 3-5: Summary of baseline hydrogeological data

Feature	Description
Potential aquifers on site/Geology (BGS, 1975) (BGS, 2010) (Arcadis, 2016)	Glacial Till deposits may contain localised areas of higher permeability material which may act as an aquifer or contain perched water if not continuous but are generally unlikely to be water bearing. Glaciofluvial deposits have a higher sand and gravel content and can act as an aquifer. Tidal flat deposits are generally quite silty and are unlikely to be water bearing but may contain more localised deposits of sand that can act as an aquifer. The solid geology is comprised of the Singleton Mudstone Group. This is likely to have secondary permeability (fractures) and may locally yield water where fractured siltstone or sandstone beds are present. Drawings HE548643-ARC-HGT-A585-DR-GE-2123 and HE548643-ARC-HGT-A585-DR-GE-2124 within Appendix C provide an overview of the Drift and Solid Geology in the study area.
Hydrogeological designation (Natural England, 2018)	Glacial till and Tidal flat deposits are designated as Secondary Undifferentiated Glaciofluvial Deposits, where at outcrop, are designated as Secondary Type A The Singleton Mudstone Group is designated as Secondary Type B.
Source Protection Zones (Arcadis, 2016)	One abstraction at Partington's Holiday Centre/Bankfield Farm is located 230 m north of the east end of the scheme (Licence no. NW/072/0417/002). The licensed use of the abstraction includes drinking water (Arcadis, 2016). Private water supplies (PWS) (springs, boreholes and collected streams) may occur in the area of the Scheme, however their sites are not known at the time of writing. There are no published source protection zones (SPZ) in vicinity of the Scheme. However, all abstractions for drinking water have a default SPZ1 and SPZ2 of 50 m and 250m respectively. A default SPZ2 of 250 m from Partington's Holiday Centre is likely to cross the eastern end of the Scheme. Drawings HE548643-ARC-HGT-A585-DR-GE-2128 and HE548643-ARC-HGT-A585-DR-GE-2129 attached in Appendix C provide an overview of the superficial and bedrock aquifers in the Scheme.

Feature	Description
Groundwater quality (Arcadis, 2016)	No groundwater quality issues are reported in the area. Localised contamination from point sources may be encountered.
Groundwater flooding	BGS mapping (Figure HE548643-ARC-HGT-A585-DR-GE-2130 in Appendix C) defines groundwater flood risk susceptibility within the Scheme into three categories: Limited potential for groundwater flooding to occur. Potential for groundwater flooding of assets located below the ground surface. Potential for groundwater flooding to occur at the surface. The mapping shows that the majority of the study area is classified as having limited potential for groundwater flooding to occur. There are localised areas at higher risk such as the existing A585 alignment near Bankfield Manor and area within Skippool Channel which are defined as a potential for groundwater flooding to occur at surface. These areas are associated with the intersection of the water table with the ground surface because of a reduction in ground level on the edge of the valleys. Artificial sources of flooding include reservoirs, canals and other sources of stored water. The EA's maximum extent of flooding from reservoirs does not extend into the study area and there are no canals in the vicinity. The baseline risk of flooding from artificial sources within the study area is therefore concluded to be low.

3.14 Hydrology

3.14.1 The study area lies in the catchment of the River Wyre. The surface drainage in the study area runs either north eastwards to the River Wyre or south westwards to the Main Dyke that lies on the west side of the Skippool channel. The Main Dyke a man-made feature flows north westwards and discharges into the River Wyre at Skippool. Floodgates across the Main Dyke at Skippool close with the high tide and prevent tidal influx inland.

3.14.2 The low-lying ground around the main Dyke is dissected by several small water courses taking surface run off from the ridge of higher ground over which the existing road traverses. Numerous water filled ponds are present in the area resulting from flooding of historical Marl pits. Extensive land drainage ditches are also present.

3.14.3 Historic information indicates that the typical high tide ranges of the River Wyre is from 1.7m AOD to 4.9m AOD. There is no noticeable effect on piezometers at Skippool Bridge from tides.

3.14.4 The study area is located in the Lower Wyre sub-area within the Wyre Catchment Flood Management Plan, where the Wyre is contained within an embanked channel and there is potential for flooding from both tidal and fluvial sources. Main Dyke sits within a large flood plain, which the Environment Agency has indicated are flood zone 2 and 3 areas. For further details refer to the Flood Risk Assessment (document reference TR010035/APP/5.2).

4 FIELD AND LABORATORY STUDIES

4.1 Walkover survey

4.1.1 The walkover survey was undertaken following Ground Investigation completion. Photographs of notable features were captured and are included in Appendix D.

4.2 Geomorphological/geological mapping

4.2.1 Although geomorphological mapping was not undertaken while on site, any significant features observed during the walkover survey were reported under the walkover survey above.

4.3 Ground investigation

4.3.1 The field works were undertaken between 8th and 20th March 2018 by Socotec Limited managed by Principal Contractor Interserve Construction Limited. The field works was designed to determine the ground conditions in relation to soil, groundwater, and potential contaminations to provide relevant parameters to aid in preliminary geotechnical design.

4.3.2 In addition to in-situ testing undertaken on all the geological layers encountered during the drilling works, representative disturbed and undisturbed soil and groundwater samples were retrieved, and monitoring standpipes were installed. Geotechnical and geo-environmental laboratory testing were performed on selected samples.

4.3.3 All field work procedures conformed to BS 10175:2001, BS 5930:2015 and ISO 1997:2007. In addition, the AGS guidelines for good practice in geotechnical ground investigation were incorporated in all field works. The structure of this report conforms to the AGS Guide to Ground Investigation Reports.

4.3.4 The field works were supervised by Interserve and a qualified Geotechnical Engineer from Arcadis Consultants (UK) Limited provided technical assistance. All samples were visually classified and logged by a competent Geological Engineer from Socotec.

4.3.5 Due to the weather and ground conditions at the time of the investigation a tracked cable percussive rig was mobilised to site in addition to conventional rigs. Initially, this was unsuccessful in retrieving undisturbed samples in the Tidal Flat Deposit. The decision was then undertaken to use a U-sample adapter with the Window Sampler rig. Similarly, due to the poor ground conditions many of the trial pits were undertaken with a tracked excavator rather than a JCB excavator.

4.3.6 Within the Skippool Channel a light-weight tracked CPT rig was also used to undertake Static Cone Penetration Tests, Mostap Sampling and In-situ Penetration Vane tests.

4.3.7 The Mostap samples were taken back to the laboratory where they were split, photographed and described. Additionally, selected small disturbed sample from these were taken for testing.

4.3.8 4 No boreholes were extended by rotary coring.

4.3.9 The summary of ground investigation exploratory holes and in-situ testing is shown in Table 4-1 and Table 4-2

Table 4-1: Summary of ground Investigation (2018)

Drilling technique	Quantity	Depth Range (mbgl)	Borehole ID
Cable percussion boring	21	0.7 to 30.15	BH01, BH01A, BH04, BH05BH06, BH06-1, BH07, BH08, BH10, BH10A, BH11, BH11A, BH12, BH14, BH15, BH17, BH18, BH19, BH103, BH105, BH106, BH107
Cable percussion boring extended by Rotary core drilling / Open hole drilling	4	24.70 to 36.50	BH01A, BH13, BH13, BH101, BH104
Machine dug trial pits	14	2.50 to 3.50	TP01, TP02, TP03, TP10, TP14, TP15, TP103 to TP110
Mostap sampling	9	1.54 to 6.0	MO3, MO5, MO7, MO13, MO14, MO16, MO18, MO19 and MO20
Dynamic sampling	17	5.00 to 8.00	WS14A, WS102 to WS105, WS105A, WS105B, WS106 to WS109, WS109A, WS111 to WS115

Table 4 2: Summary of in situ testing

In situ testing	Quantity	Depth Range (mbgl)	Borehole ID
Cone penetration test (CPTs) with measurement of cone resistance, friction and pore pressure	20	8.14 to 15.02	CPT01 to CPT20
Pore pressure dissipation test	4	2.5 to 4.0	CPT03, CPT05, CPT09, CPT13
Penetration Vane Test	8	1.0 to 5.2	CPT03, CPT05, CPT07, CPT13, CPT14, CPT16, CPT19, CPT20
Dynamic Cone Penetration (DCP)	11	0 to 1.7	DCP01 to DCP10 (WS102, WS111, TP01, WS107, TP03, TP10, WS105, TP15, WS104, BH10, TP14)
In-situ permeability tests	3	3.0 to 16.5	BH13T1, BH14T1, BH103T1

4.3.10 Interpretation of the CPT data was carried out using recommendation of Lunne et al (1997) to determine relevant properties. The soil classification adopted the soil behaviour type chart after Robertson (1990).

4.3.11 The results of the ground investigation are provided in the Factual Report, Document No: F7059-17, April 2018 written by Socotec.

4.4 Groundwater monitoring - Standpipe installations

4.4.1 A total of 25 boreholes and 16 window samples were drilled for the geotechnical investigation. A total of 17 had groundwater monitoring instruments installed.

4.4.2 Table 4-2 below details the response zones (i.e. the vertical extent of the aquifer across which the slotted standpipe and gravel pack were installed) of the piezometers for both investigations.

Table 4-2: Standpipe piezometer installation details

Borehole No.	Ground surface elevation (m AOD)	Standpipe response zone (m bgl)		Standpipe response zone (m AOD)	
		From	To	From	To
BH04	11.2	2.0	10.0	9.2	1.2
BH05	4.8	4.0	6.0	0.8	-1.0
BH06-1	4.8	6.5	8.5	-1.7	-3.7
BH07	4.5	6.5	8.6	-2.0	-4.0
BH08	4.6	1.5	7.5	3.1	-2.9
BH101	22.7	5.4	7.4	17.3	15.3
BH103	20.8	13.5	16.5	7.3	4.3
BH104	5.4	4.5	7.0	0.9	-1.7
BH10A	13.8	4.0	6.0	9.8	7.8
BH12	19.3	8.0	12.0	11.3	7.3
BH13	21.9	7.5	10.0	14.4	11.9
BH14	21.1	3.0	5.0	18.1	16.1
BH15	19.8	8.5	11.0	11.3	8.8
BH17	17.1	1.0	3.5	16.1	13.6
BH19	13.8	5.0	10.0	8.8	3.8
WS105B	7.0	1.0	3.0	6.0	4.0
WS109	4.78	0.5	3.0	4.3	1.8

4.4.3 A data logger was installed in three boreholes. Groundwater monitoring undertaken during ground investigation and for a period of one-month post-GI is presented in this report. Piezometers will be monitored for a total of 12 months.

4.5 Drainage Studies

4.5.1 Drainage for existing carriageway is currently being investigated and surveyed.

4.6 Geophysical Survey

4.6.1 Not undertaken or required.

4.7 Pile test

4.7.1 Not undertaken or required at this stage.

4.8 Other Field work

4.8.1 Investigations to determine the location, depth and size/material of services impacted by the scheme is in progress.

4.8.2 An existing pavement ground investigation is currently in progress.

4.9 Laboratory Study

4.9.1 Representative samples were taken at pre-determined depths from the encountered strata. The sampling frequency adopted is detailed in the borehole logs.

4.9.2 The geotechnical laboratory testing was scheduled by Arcadis Consultants (UK) Limited to provide and determine soil properties and design parameters for the proposed road improvement scheme.

4.9.3 Samples were conserved in the field following best practice and thereafter shipped to SOCOTEC laboratories for testing. Both the geotechnical and chemical laboratory tests were conducted by SOCOTEC Laboratories.

4.9.4 Unless otherwise stated, all applied laboratory test procedures were in accordance to BS 1377 “Methods of Test for Soils for Civil Engineering Purposes.”

4.9.5 The summary of laboratory tests carried out on each soil stratum is shown in Table 4-3.

Table 4-3:Summary of laboratory tests undertaken

Test	Made Ground	Alluvium	Tidal Flats Deposits	Glacio-Fluvial Deposits	Glacial Till	Singleton Mudstone Member
Hand Vane Shear Test	0	0	0	0	0	0
Atterberg Limits	3	5	58	13	147	3
Moisture Content	7	4	86	23	245	4
Particle Size Distribution	1	0	18	25	22	1
Standard Penetration Test	16	2	51	79	154	19
Cone Penetration Test	0	0	20	0	0	0
Penetration Vane Test	0	0	9	0	0	0
CPT Pore Pressure Dissipation Test	0	0	3	0	0	0
Compaction	0	0	0	10	8	0
Moisture Condition Value	0	0	1	3	60	0
Bulk Density	1	4	34	4	87	1
Particle Density	0	0	0	4	4	0
One Dimensional Oedometer test	1	1	25	0	14	0
Shear box test	0	0	0	6	1	0
Unconsolidated Undrained Triaxial test	1	2	16	1	66	1
Consolidated Undrained Triaxial test	0	1	9	0	16	0

5 GROUND SUMMARY

5.1.1 The topography and the sequence of ground strata revealed during ground investigation confirms the published information in the geological memoir and details shown on the BGS geological map. The site is characterised by undulating landform typical of Glacial terrain.

5.1.2 The BGS memoirs refer to Glacial Sequence comprising an Upper and Lower Glacial Till separated by Glaciofluvial Sand and Gravel. This is reported to follow the existing topography which has been proved by the investigation to be applicable to the Glacial Deposits of this area.

5.1.3 The Skippool Channel was formed during a time of glacial activity when water flowed from north to south. Subsequently Tidal Flat Deposits were laid down in this channel above. This may contain deposits of Alluvium where freshwater has flowed more recently. In addition, Tidal Flat Deposits were found under an area of Peat east of Poulton Junction.

5.1.4 Alluvial material is present at the location where a stream flows under the existing A585 close to where the new scheme ties in. This is mapped by BGS as Tidal flat deposits, but the properties are different to the Tidal Flat Deposits encountered elsewhere.

5.1.5 The superficial deposits are underlain by Singleton Mudstone Member which was investigated at Lodge Lane and in the Skippool Bridge area.

5.1.6 Generalised geological sequence is summarised in Table 5-1

Table 5-1: Generalised geological sequence

Strata	Age
Tidal Flat Deposits	Quaternary (Flandrian)
Alluvium	Quaternary (Flandrian)
Peat	Quaternary (Flandrian)
Glacial Till	Quaternary (Devensian)
Glaciofluvial Deposit	Quaternary (Devensian)
Singleton Mudstone Member (Mercia Mudstone Group)	Triassic

5.1.7 Superficial deposits vary by location, and the geology does not necessarily follow a sequential profile throughout the route. These variations are discussed in more detail within the subsequent sections.

5.1.8 A geological section and plan along the route are presented in Appendix B. Geotechnical properties and detailed descriptions of strata are provided in Section 6.

5.1.9 Geological profiles along the route corridor are given in Table 5-2

Table 5-2: Sectional Geological Profile along the route

Chainage (m)	Superficial Deposits	Solid Geology
0 – 160	Made Ground Glacial Till	
160 – 320	Made Ground Tidal Flat Deposits Glacial Till	Singleton Mudstone Member
320 – 550	Made Ground Tidal Flat Deposits Glaciofluvial Deposits	Singleton Mudstone Member
550 – 900	Made Ground Glacial Till	
900 – 1070	Glacial Till Glaciofluvial Deposits	
1070 – 1360	Tidal Flat Deposits Glacial Till Glaciofluvial Deposits	
1360 – 2200	Tidal Flat Deposits Glaciofluvial Deposits Glacial Till	
2200 – 2440	Glacial Till Glaciofluvial Deposits Glacial Till	
2440 – 2700	Peat Tidal Flat Deposits	
2700 – 3960	Glacial Till Glaciofluvial Deposits Glacial Till	Singleton Mudstone Member
3960 – 4100	Made Ground Alluvium Glaciofluvial Deposits Glacial Till	
4100 – 4160	Made Ground Glacial Till Glaciofluvial Deposits	

Chainage (m)	Superficial Deposits	Solid Geology
4160 – 4400	Made Ground Alluvium Glacial Till Glaciofluvial Deposits Glacial Till	
4400 – 4810	Made Ground Glacial Till	

5.2 Superficial Geology

Topsoil

5.2.1 Topsoil was encountered across the whole route of depths between 0.1m and 1.1mbgl, but generally was approximately 0.3m thick.

5.2.2 The thickest Topsoil encountered was at BH10 that is in the footprint of the proposed Grange Footbridge, which currently is being used for agriculture. In areas of Made Ground, Topsoil was generally not present.

Made Ground

5.2.3 The ground investigation has shown that Made Ground was encountered at fourteen locations up to a maximum depth of 5.4m below ground level. Made Ground was encountered along Skippool Junction, Skippool Bridge, the proposed roundabout at Poulton Junction, and along A585 New Garstang Road.

5.2.4 Majority of the granular Made Ground is associated with previous road constructions along A585 New Garstang Road.

5.2.5 No investigation was carried out in any backfilled historical ponds along the route.

5.2.6 The Made Ground at Keyworker Homes (BH1 and BH1A) has thicknesses of up to 3m below ground level that are described as brown sandy gravelly clay. Across the dyke at the residential property (WS114), the Made Ground was 5.4m thick and described as a brown sandy gravelly Clay. At the proposed roundabout at Poulton Junction, the Made Ground forming the existing embankment is 2.6m thick and is described as a silty Sand.

Alluvium

5.2.7 There is only one location in the current ground investigation where Alluvium was encountered and that was along the A585 New Garstang Road between chainages of 4000m and 4400m. Here it was found to a depth of 3.9m below ground level. Three other locations encountered Alluvium in previous investigations up to depths of 5m below ground level with thicknesses of up to 2m.

5.2.8 WS102/09/24203 undertaken in a previous ground investigation interpreted an area of pond alluvium just to the west of this area.

5.2.9 BH13/3936 located west of Poulton Junction encountered Alluvium of 2.4m thickness at 0.8m below ground level.

5.2.10 Typically, the Alluvium comprises of a grey, slightly sandy, slightly gravelly, silty CLAY with organic content.

Tidal Flat Deposits

5.2.11 Tidal Flat Deposits were encountered between Skippool Junction and Skippool Bridge, and along the Skippool Channel with depths generally between 5m to 6m Shallower depths were recorded at either end of the area of channel which the route crosses. The depth and thicknesses of Tidal Flat Deposits is otherwise fairly consistent.

5.2.12 The Tidal Flat Deposits are highly variable vertically and laterally in composition. There is a tendency for the deposit to be a sandy or silty clay occasionally with organic (peaty) content at the ground surface.

5.2.13 At depth, it is often interbedded with bands or laminations of silt and sand, and often progresses to a silty sand. Further details are presented in Section 6.

5.2.14 West of Lodge Lane between chainages 2420m and 2680m, the Tidal Flat Deposits underly Peat deposits of up to 3m below ground level.

5.2.15 Tidal Flat Deposit was found in WS107 and BH12/3936 which are located within the location of the proposed roundabout (Poulton Junction).

Peat

5.2.16 Peat was encountered at three general locations closer to the surface of the Tidal Flat Deposits:

- along Skippool Channel in the vicinity of Poulton Junction
- the valley south-east of Poulton Junction
- at A585 New Garstang Road in an area considered to be of Alluvial origin

5.2.17 Along Skippool Channel in the area of the proposed roundabout at Poulton Junction (chainage of 2110m), Peat was encountered in WS108, CPT15, WS106 and SD33E11/BGS to a depth of 1.2m below ground level. Within Tidal Flat Deposits, peat inclusions were encountered south of the junction within the Tidal Flat deposits (SD33NE10/BGS, SD33NE11/BGS, SD33NE14/BGS).

5.2.18 Between Poulton Junction and Lodge Lane (Chainage 2470m and 2640m), more extensive pockets of Peat were encountered in the valley bottom to depths of up to 3m below ground level (WS105, WS105A, WS105B).

5.2.19 At A585 New Garstang Road tie-in (Chainage 4340m), a pocket of 0.6m thick peat was encountered between 1.2m and 1.8m below ground level.in WS115 a thin band of peaty clay was observed in BH11 nearby

5.2.20 Along the Skippool Channel, Peat and peaty Clay pockets were encountered at WS108 (chainage 1850m) and WS106 (Chainage 2190m) with thicknesses of up to 1m.

5.2.21 Typically, the Peat is described as a dark brown, clayey PEAT.

Glacial Till

5.2.22 Glacial Till was encountered throughout the route. On the valley sides and high ground, it was often formed a thin mantle of between 3m and 5m thickness overlying Glaciofluvial Deposits. Beneath this a greater thickness of till of up to 25m was apparent.

5.2.23 The sequence is less clear beneath the Tidal Flat Deposits, such as between chainages 1400m and 2080m, the Tidal Flat Deposits are underlain by the Glaciofluvial Deposits.

5.2.24 In the location of WS109 and WS109A along the Skippool Channel, the Till rises sharply being directly beneath the Tidal Flat Deposits at approximately 4.5m below ground level.

5.2.25 There is not always a clear distinction between the Till and Glaciofluvial Deposits due to the high silt content of the Glaciofluvial Deposits.

5.2.26 The Till is generally described as a reddish brown slightly sandy, slightly gravelly, occasionally silty CLAY.

Glaciofluvial Deposits

5.2.27 Glaciofluvial Deposits were encountered at Skippool Bridge, along Skippool Channel continuing through Lodge Lane up to A585 New Garstang Road. Glaciofluvial Deposits are described as either cohesive or granular depending on the percentage of clay and silt which is quite varied. (See Table 5-3 below)

Table 5-3: Description of Glaciofluvial Deposits

Location / Borehole Ref	Chainage	Description of Glaciofluvial Deposits
Skippool Bridge	360 to 580	Up to 4m thick Glaciofluvial Deposits underlying Tidal Flat Deposits
Skippool Channel (Main Dyke floodplain)	920 to 1350	Deposits 3 to 4m thick are underlying a thin layer of Glacial Till
Skippool Channel (Main Dyke floodplain)	1350 to 2250	Variable thicknesses (up to 10m) underlie the Tidal Flat Deposits Occasionally overlain by Glacial Till between 2080m and 2140m chainage.
East of Poulton Junction	2250 to 2470	Thicknesses up to 10m below Glacial Till.
Valley bottom west of Lodge Lane	2470 to 2700	Probably varying thicknesses of Glaciofluvial Deposits underlying Peat and Tidal Flat Deposits.
West and east of Lodge Lane	2780 to 3550	Glaciofluvial Deposits underly a thin layer of Glacial Till
Tie-in to A585	3580 to 4400	Impersistent bands within or over the Glacial Till with a maximum thickness of 2m.

5.2.28 The cohesive Glaciofluvial deposits are generally described as a brown sandy, gravelly, occasionally silty clay, or as a brown sandy, gravelly, occasionally clayey silt

5.2.29 The granular Glaciofluvial deposits are generally described as a brown gravelly, occasionally silty, occasionally clayey sand.

5.3 Solid Geology

Singleton Mudstone Member

5.3.1 This formation which is a bedrock across the scheme consists of dominantly mudstone and siltstone, red-brown with common grey -green patches and spots. Singleton Mudstone had been encountered at Skippool Junction, Skippool Bridge and Lodge Lane.

5.3.2 From Skippool Junction to Skippool Bridge (chainages 470m to 560m), the Mudstone was encountered between 11m to 12m below ground level. Generally, up to 15m depth below ground level, the Mudstone is weathered and recovered as a brown greyish sandy gravelly CLAY. Below this depth, the Mudstone is generally described as an extremely weak to weak reddish brown and grey Mudstone with discontinuities.

5.3.3 At Lodge Lane between chainages of 3060m to 3170m, the Mudstone is encountered at 27m to 28m below ground level and is generally described as extremely weak to very weak reddish brown and grey mottled mudstone with discontinuities and gypsum veins.

5.4 Groundwater

Groundwater Monitoring period – Manual on site

5.4.1 Groundwater levels within all boreholes were monitored manually using a dip meter weekly during the ground investigation and weekly thereafter, between 15/01/2018 and 18/04/2018. Groundwater data loggers were installed in three installations – BH13, BH14 and BH103, with a barometric logger installed in BH19. The manually dipped groundwater levels are shown in Figure 5-1 while the maximum, minimum and average water levels from groundwater measurements are presented in Table 5-4.

Figure 5-1: Groundwater levels from manually dipped data

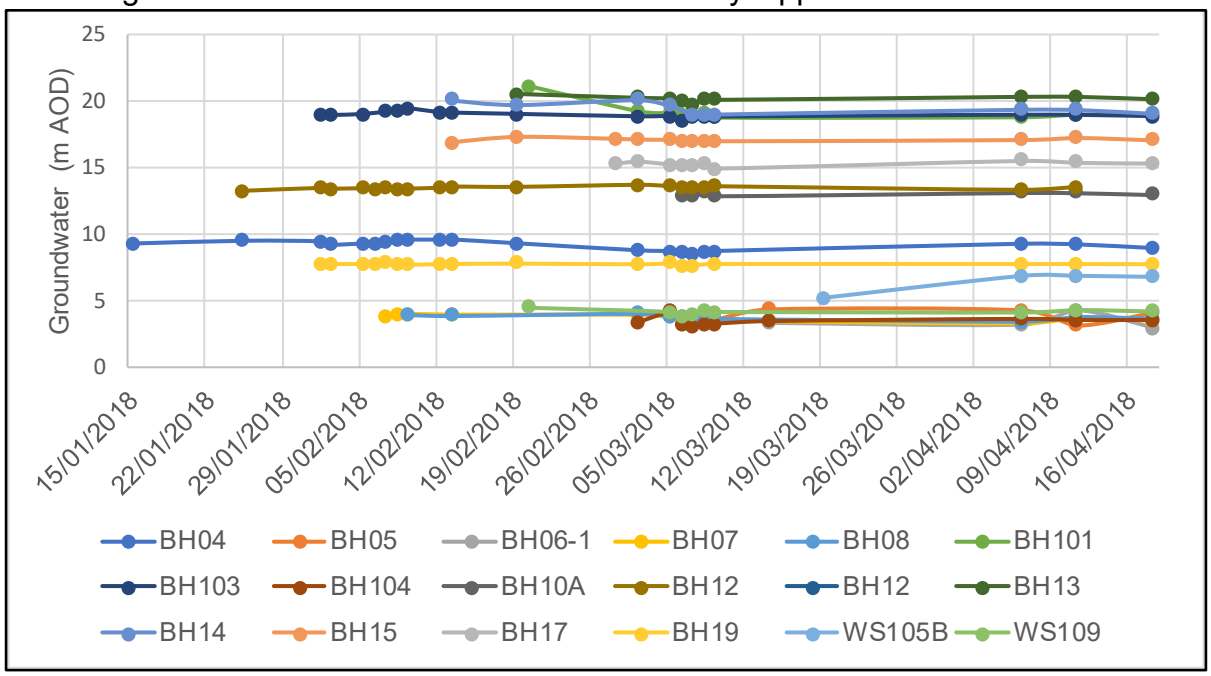


Table 5-4: Summary of groundwater level monitoring data for manually dipped sites

Borehole	Ground level (m AOD)	Maximum (m BGL)	Minimum (m BGL)	Average (m BGL)	Maximum (m AOD)	Minimum (m AOD)	Average (m AOD)	Range (m)	Strata	Type
BH04	11.19	2.62	1.55	1.98	9.64	8.57	9.21	1.07	Glacial Till	Clay
BH05	4.78	1.53	0.36	0.77	4.42	3.25	4.01	1.17	Tidal Flat Deposits	Silt
BH06-1	4.77	1.77	0.47	1.29	4.30	3.00	3.48	1.30	Glaciofluvial Deposits	Granular
BH07	4.51	1.10	0.44	0.74	4.07	3.41	3.77	0.66	Glaciofluvial Deposits	Granular
BH08	4.62	1.17	0.50	0.82	4.12	3.45	3.80	0.67	Tidal Flat Deposits	Silt
BH101	22.67	3.86	1.50	3.42	21.17	18.81	19.25	2.36	Glacial Till	Sand
BH13	21.86	2.10	1.30	1.64	20.56	19.76	20.22	0.80	Glacial Till	Clay
BH103	20.8	2.23	1.34	1.81	19.46	18.57	18.99	0.89	Glacial Till	Clay
BH104	5.35	2.25	1.10	1.86	4.25	3.10	3.50	1.15	Glaciofluvial deposits	Granular
BH10A	13.77	0.88	0.58	0.73	13.19	12.89	13.04	0.30	Glaciofluvial Deposits	Gravel
BH12	19.25	6.00	5.50	5.74	13.75	13.25	13.51	0.50	Glaciofluvial Deposits	Granular
BH14	21.08	2.07	0.92	1.61	20.16	19.01	19.47	1.15	Glaciofluvial Deposits	Granular
BH15	19.84	2.90	2.45	2.71	17.39	16.94	17.13	0.45	Glacial Till	Clay

Borehole	Ground level (m AOD)	Maximum (m BGL)	Minimum (m BGL)	Average (m BGL)	Maximum (m AOD)	Minimum (m AOD)	Average (m AOD)	Range (m)	Strata	Type
BH17	17.1	2.16	1.50	1.78	15.60	14.94	15.32	0.66	Glaciofluvial Deposits	Granular
BH19	13.83	6.13	5.93	6.02	7.90	7.70	7.81	0.20	Glaciofluvial Deposits	Granular
WS105B	7	1.76	0.10	0.54	6.90	5.24	6.47	1.66	Tidal Flat Deposits	Granular
WS109	4.75	0.85	0.20	0.55	4.55	3.90	4.20	0.65	Tidal Flat Deposits	Clay

Groundwater levels – continuous monitoring

5.4.2 Continuous monitoring of water level was completed at BH13, BH14 and BH103 between 19th March 2018 and 3rd May 2018. Data loggers (3 no.) were installed by SOCOTEC. The continuous data correlates well with manual dips at all sites and is considered reliable and are shown graphically in the Factual Report, document No: F7059-17.

5.4.3 The automated monitoring recorded the impact on water levels of sampling events and hydraulic testing, resulting in drawdown and rapid recovery to pre-test water levels and short duration dips in the water table for BH13 (27 March and 6 April) (Figure 5-2); BH14 (26 March and 6 April) (5-3) and BH103 (27 March and 6 April) (Figure 5-4). RHT shown on these figures represents the rising head tests, which were the hydraulic testing.

Figure 5-2: Continuous water level monitoring record for BH13

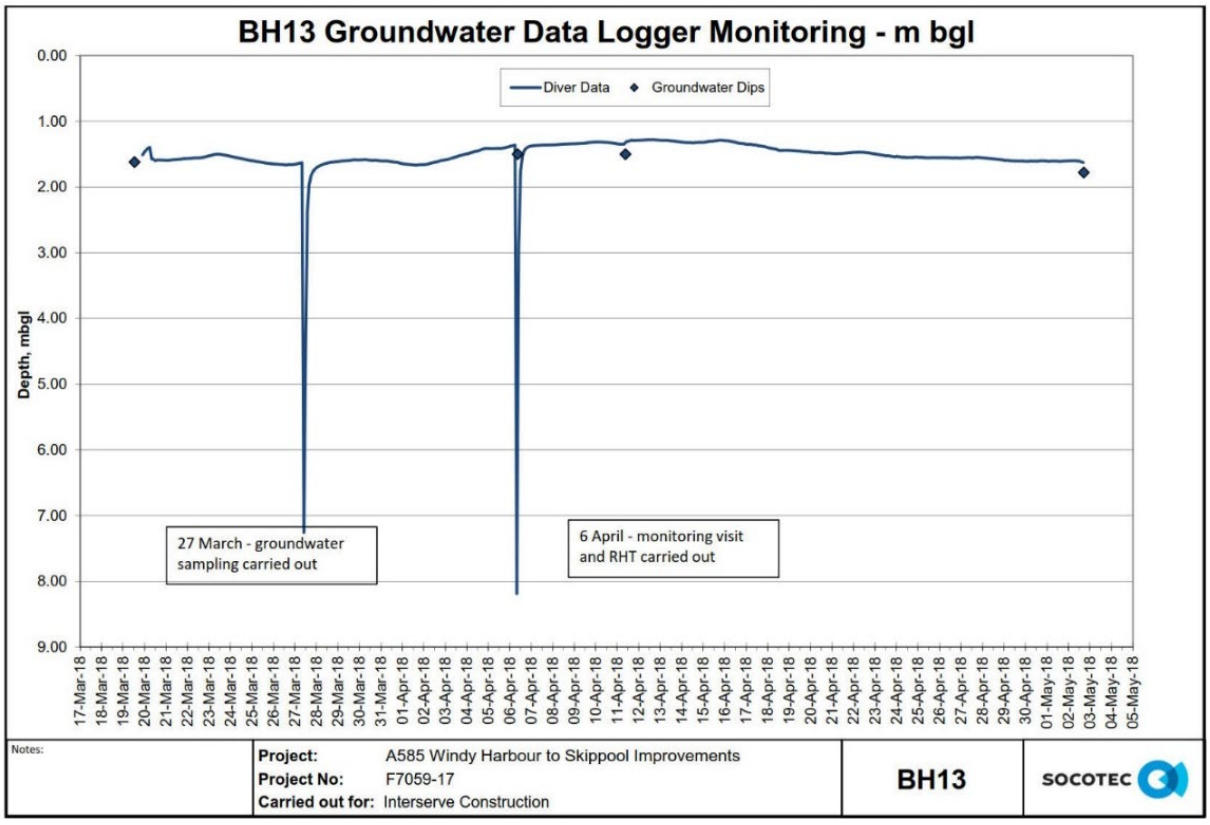


Figure 5-3: Continuous water level monitoring record for BH14

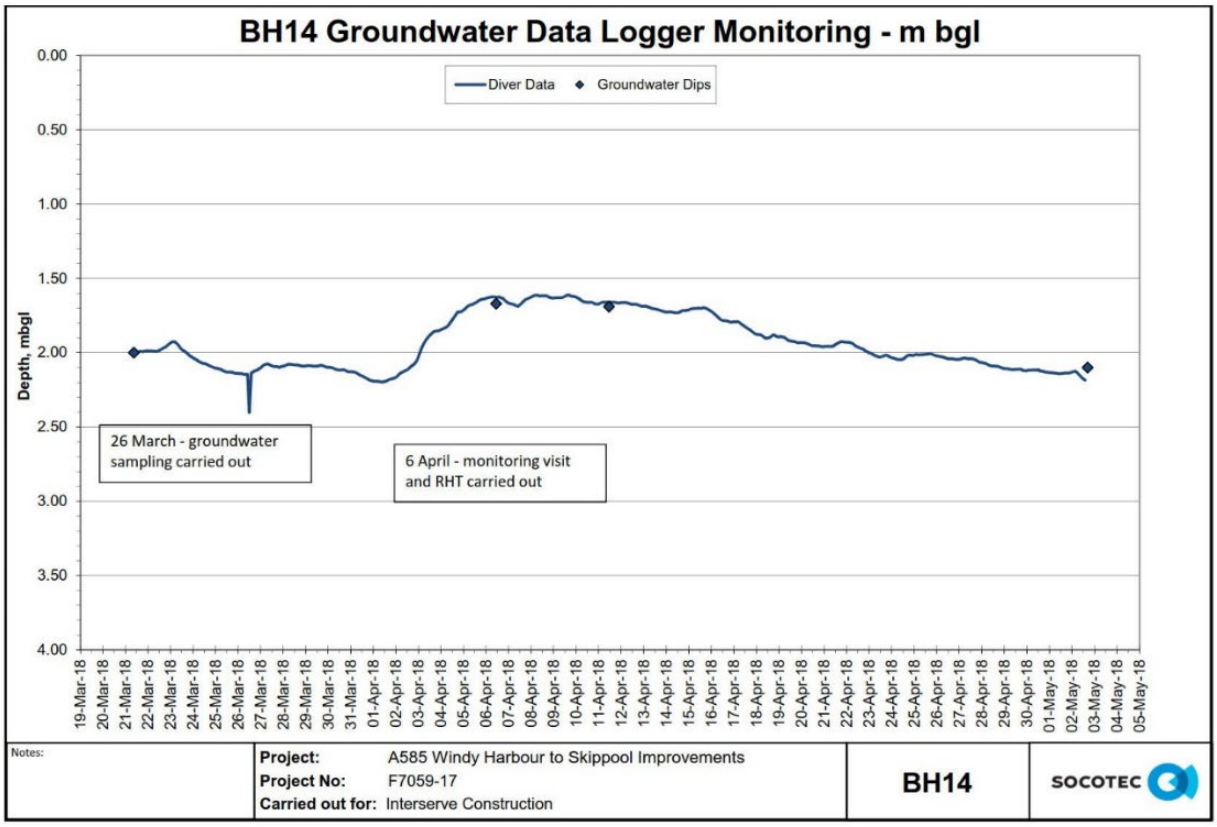
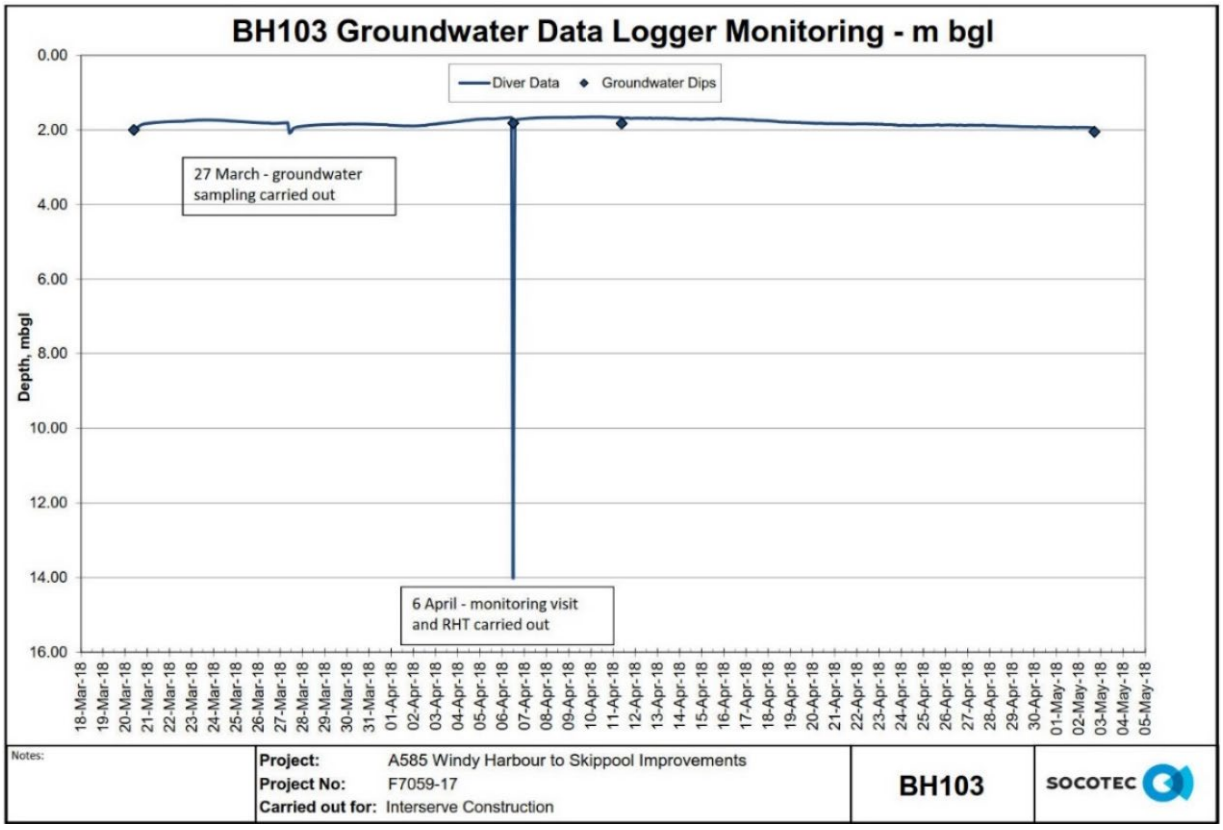


Figure 5-4: Continuous water level monitoring record for BH103



Groundwater levels – artesian boreholes

5.4.4 Artesian conditions have been encountered at the eastern end of the scheme, south of Bankfield Manor Farm associated with a topographic low (valley) feature, at BH11 and BH13/3936 (historical) (Arcadis, 2016).

5.4.5 BH11A is located south of Bankfield Manor about 500 m from the eastern end of the scheme. The borehole log for BH11A shows that a sand was encountered at 8.05 m bgl and that final depth was unable to be achieved because the water level rose to -1.94 m bgl. BH11A has a topographic elevation of 4.93 m AOD.

5.4.6 BH13/3936 is located 30m east-north-east of BH11A in the same valley and is noted as also experiencing artesian conditions. At these sites there is up to 4m of Glacial Till that provides a confining seal.

In-situ testing of hydraulic conductivity

5.4.7 The rising head hydraulic conductivity test results analysis method is based on an adaptation of ISO 22282-2 (International Organization for Standardization, 2012).

5.4.8 Rising head tests were conducted for three boreholes (BH13, BH14 and BH103) on 6 April 2018, the boreholes were tested for a time of 60, 35 and 60 mins respectively. One of these boreholes consisted of glacial sand (BH14) and other two boreholes consisted of Glacial Till (clay).

5.4.9 The depth to water level rose by 3.73 m, 1.58 m and 0.95 m for BH 13, BH14 and BH103 respectively during the testing period. This rise in water level led to sufficient increase in hydraulic head and decrease in hydraulic head ratio in all the three tested wells to fulfil the testing criteria.

5.4.10 The velocity graph method of calculation (BSI Corporate, 2015) was used for analysis of hydraulic conductivity test results. The hydraulic conductivity values obtained for the three boreholes are considered to be in line with those expected for the types of material screened. The hydraulic conductivity value for BH14 derived from the test is likely to be representative of the SAND layer screened rather than the CLAY. Details obtained from the tests are given in Table 5-5. below.

Table 5-5: Summary of in-situ testing of hydraulic conductivity (SOCOTEC Ltd., 2018)

Borehole No.	BH13	BH14	BH103
Top of the response zone (m bgl)	7.5	3.0	13.5
Base of the response zone (m bgl)	10.0	5.0	16.5
Water level (m bgl)[1]	1.3 to 2.1 m AOD; average 1.6 m AOD	0.9 to 2.1 m AOD; average 1.6 m AOD	1.3 to 2.2 m bgl; average 1.8 m bgl
Material description from borehole	Slightly sandy, Locally sandy slightly gravelly CLAY. Glacial Till.	Depth: 3.0-4.7m: silty fine SAND, grading from slightly gravelly sandy to very sandy slit. Glaciofluvial Deposits. Depth: 4.7-5.0 m: slightly sandy slightly gravelly CLAY	Slightly sandy slightly gravelly CLAY. Glacial Till.
Water strikes (m bgl)	The well shows presence of groundwater from 1.3 m bgl to 3.3 m bgl and again from 21.0 m bgl to 28.5 m bgl.	The well shows presence of groundwater from 10.2 m bgl to 19.6 m bgl.	Well shows presence of groundwater from 10.7 m bgl to 30.12 m bgl.
Hydraulic conductivity (m/sec)	$9.0x10^{-08}$	$4.3x10^{-06}$	$7.2x10^{-07}$
[1] From groundwater monitoring completed between 15/1/2018 and 18/4/2018			

5.4.11 The average hydraulic conductivity from in-situ rising head tests of the Glacial Till (CLAY) is $4.05x10^{-07}$ m/s and for the Glaciofluvial Deposits is $4.30x10^{-06}$ m/s. The higher hydraulic conductivity of the Glaciofluvial Deposits is expected as these deposits are generally sands.

Particle size distribution gradings

5.4.12 The borehole sample particle size gradings distributions, as available in the factual report (Arcadis, 2016) was used to analyse the hydraulic conductivity values for the geology present in the 19 available boreholes. HydrogeoSieveXL™ (Devlin, 2015) was used to carry out the analysis and the geo-mean of all valid tests for each sample is presented in Table 5-6.

Table 5-6: Hydraulic conductivity based on geology type

Borehole	Sample	Depth	Hydraulic conductivity (m/s)	Geology
BH01	B4	1.7-2.15	$1.68X10^{-08}$	Made ground
BH01A	B7	2.7-3.15	$1.36X10^{-08}$	Tidal Flat Deposits
BH01A	B15	7.7-8.15	$9.63X10^{-07}$	Glaciofluvial Deposit
BH04	B15	3.2-3.7	$4.46X10^{-08}$	Glacial Till
BH04	UT27	6.7-7.15	$4.60X10^{-06}$	Glacial Till
BH06-1	B16	6.7-7.7	$9.76X10^{-07}$	Glaciofluvial Deposit
BH07	B14	6.5-7.00	$2.20X10^{-07}$	Glaciofluvial Deposit
BH10	B15	5.70-6.15	$1.13X10^{-07}$	Glacial Till
BH101	B9	1.7-2.15	$3.12X10^{-07}$	Glaciofluvial Deposit
BH101	B15	3.7-4.15	$9.45X10^{-08}$	Glacial Till
BH101	B42	13.20-13.70	$1.36X10^{-07}$	Glacial Till
BH101	B62	18.20-18.70	$1.41X10^{-07}$	Glacial Till
BH103	B4	1.70-2.15	$2.05X10^{-07}$	Glacial Till
BH103	B47	17.70-18.15	$8.93X10^{-11}$	Glacial Till
BH103	B66	24.70-25.15	$5.05X10^{-09}$	Glacial Till
BH103	B77	28.70-29.15	$1.79X10^{-07}$	Weathered Singleton Mudstone
BH104	D9	2.70-3.15	$3.26X10^{-08}$	Tidal Flat Deposits
BH104	B17	5.70-6.15	$4.32X10^{-07}$	Tidal Flat Deposits
BH105	B13	4.70-5.15	$1.78X10^{-07}$	Glacial Till
BH105	B19	6.70-7.15	$1.66X10^{-04}$	Glaciofluvial Deposit
BH106	B10	2.70-3.10	$4.27X10^{-07}$	Glaciofluvial Deposit
BH107	B6	2.70-3.15	$2.28X10^{-06}$	Glaciofluvial Deposit
BH107	B9	3.70-4.15	$5.52X10^{-05}$	Glaciofluvial Deposit
BH107	B25	8.70-9.15	$2.83X10^{-05}$	Glaciofluvial Deposit
BH12	UT7	1.70-2.15	$2.59X10^{-06}$	Glaciofluvial Deposit
BH12	B17	4.70-5.15	$4.31X10^{-05}$	Glaciofluvial Deposit
BH12	UT22	6.70-7.15	$6.71X10^{-09}$	Glacial Till
BH13	B7	1.70-2.15	$2.14X10^{-06}$	Glaciofluvial Deposit
BH13	B21	6.70-7.15	$1.98X10^{-07}$	Glacial Till
BH14	B10	3.70-4.15	$3.83X10^{-07}$	Glaciofluvial Deposits

Borehole	Sample	Depth	Hydraulic conductivity (m/s)	Geology
BH14	UT17	6.70-7.15	$9.96X10^{-08}$	Glacial Till
BH17	B12	2.70-3.15	$4.03X10^{-05}$	Glaciofluvial Deposit
BH18	B13	3.60-4.60	$3.40X10^{-07}$	Glaciofluvial Deposit
BH19	B12	4.70-5.15	$5.09X10^{-05}$	Glaciofluvial Deposit

Table 5-7: Summary of hydraulic conductivity results calculated from borehole samples

Material type	Number of samples	Maximum hydraulic conductivity from PSD analysis (m/s)	Minimum hydraulic conductivity from PSD analysis (m/s)	Geomean hydraulic conductivity from PSD analysis (m/s)
Tidal Flat deposits	3	$4.32x10^{-7}$	$1.36x10^{-8}$	$5.76x10^{-8}$
Glacial Till	13	$4.60x10^{-6}$	$8.93x10^{-11}$	$5.84x10^{-8}$
Glaciofluvial Deposits	16	$1.66x10^{-4}$	$2.2x10^{-7}$	$3.66x10^{-6}$
Singleton Mudstone	1	$1.79x10^{-7}$	$1.79x10^{-7}$	$1.79x10^{-7}$

Summary of hydraulic conductivity data

5.4.13 The hydraulic conductivity values obtained from in-situ testing and from particle size distribution analysis have been combined and key statistics are summarised in Table 5-7. Three results were obtained from in-situ testing and 27 from calculations based on the material particle size distribution curves. Table 5-8 also shows that the Glaciofluvial Deposits have a hydraulic conductivity of an order of magnitude higher than that of the Till.

Table 5-8: Summary of hydraulic conductivity data

Material type	Number of samples	Maximum hydraulic conductivity (m/s)	Minimum hydraulic conductivity (m/s)	Geo-mean hydraulic conductivity (m/s)
Glaciofluvial Deposit	17	1.66x10-4	2.20x10-7	3.70x10-6
Glacial Till	15	4.60x10-6	8.93x10-11	7.10x10-8
Tidal Flat Deposits	3	4.32x10-7	1.36x10-8	5.76x10-8
Weathered Singleton Mudstone	1	1.79x10-7	1.79x10-7	1.79x10-7

6 GROUND CONDITIONS AND MATERIAL PROPERTIES

6.1 Introduction

6.1.1 The Geotechnical properties and ground conditions encountered during ground investigation carried out in 2018 are provided in this section.

6.1.2 The material properties summarised have included available data obtained from previous studies and from the recent ground investigation undertaken between 8 January and 20 March 2018.

6.1.3 The detailed and relevant ground conditions for each of the strata encountered during this study across the entire site are presented in the following sub-sections and all relevant figures and plots are presented in Appendix F.

6.1.4 It is noted that some laboratory descriptions of samples from the Tidal Flat Deposits do not fully agree with the field description where silts and clays were described. This could be due to sample size, variability, consistency, and difficulty of identifying silts by hand.

6.2 Made Ground

6.2.1 Made Ground was encountered along Skippool Junction, Skippool Bridge, proposed roundabout at Poulton Junction, and along the existing A585 near Windy Harbour. Made Ground description and identified thickness within these locations is presented in summary in Table 6-1.

Table 6-1: Location of Made Ground

Location	Relevant GI/boreholes	Strata description	Depth/thickness [m]
Skippool Bridge	BH01, BH01A	Very soft to soft sandy gravelly organic Clay/gravelly clayey fine to medium Sand with low cobble content	1m to 3m
Garstang Rd East (Poulton Junction)	BH12/3936	Medium dense brown silty fine Sand.	0 to 2.6
Tie-in embankment/existing A585 (Windy Harbour)	BH13/3936, WS101/09/24203, WS102/09/24203, WS103/09/24203	Stiff Brown slightly sandy slightly gravelly Clay.	0.8 to 5

6.2.2 Laboratory testing is only available for the Skippool Bridge area (for non-engineered fill). The results showed the moisture content of the Made Ground ranged between 9% and 28% with a plastic limit range of 13% to 21% and a plastic index of 12% to 18%. Particle size curve shows that the Made Ground comprise gravel (24%), sand (25%), silt 32% and clay 19%.

6.2.3 The Made Ground at Poulton Rd East and Windy Harbour mainly comprised engineered fill below existing verges.

6.2.4 In the area of Skippool Bridge, four SPTs were undertaken ranging between 1 and 3 for the non-engineered fill. However, at WS114, SPT values ranged between 7 and 50. Seven SPT tests recorded N-values ranging from 7 to 20 at Poulton Rd East and Windy Harbour.

6.2.5 The bulk density from four tests is generally valued at 1.94 Mg/m^3.

6.3 Alluvium

6.3.1 The Alluvium is generally described as soft to firm brown silty sandy CLAY with occasional fine subangular gravels. The results of Atterberg limits test on samples taken between 1.2mbgl and 3.5mbgl are for Liquid Limit between 25% to 38%, Plastic Limit between 13% to 28%, and Plasticity Index between 11 to 20. Four moisture content tests were undertaken, and values ranged between 14% and 38%, with the average being 21%. The liquidity index ranged between 0.23 and 0.91.

6.3.2 The Alluvial soil has a minimum density of 1.9 Mg/m3 and a maximum density of 2.3 Mg/m3 with an average of 2.1 Mg/m3. The moisture content test recorded a minimum and maximum values of 3% and 18%, respectively.

6.3.3 Two SPT tests performed in this layer recorded N-values of 7 at 1.2mbgl and 16 at 2mbgl. The undrained shear strength from two unconfined consolidation triaxial test are 11kPa at 1.2mbgl and 23kPa at 3mbgl.

6.4 Peat

6.4.1 Moisture contents ranged between 183% and 665% with the average being 435%.

6.4.2 Log descriptions of Peat are contradicted by the results from Moisture Content Tests in WS105.

6.4.3 The result from the unconsolidated undrained triaxial test carried out on WS105B indicated a shear strength of 3kPa and a bulk density of 0.94 Mg/m3.

6.4.4 It was also recorded during field work that some peaty layer could not support the weight of the SPT assembly while attempting to carry out an SPT test, though successful tests gave an N-value in the range of 0 to 7.

6.4.5 There were five Atterberg limit tests undertaken of which three resulted in no plasticity. The liquid limits were reported as 21% and 42%, and corresponding plastic limit values were 13% and 30%. Plasticity index values came to 8 and 12.

6.4.6 The peat deposits predominantly occurred at ground level or near the surface and was associated with clay. Generally, the encountered peats are organic soils formed from partial decomposition of organic material which are known to exhibit unique properties such as high compressibility, creep, high moisture content and very low shear strength.

6.4.7 Peat deposits are potential natural source of methane and carbon dioxide which pose health and safety hazards. The extent of generation and emission pattern of these gases may have some implications during the construction phase.

6.5 Tidal Flat Deposit

6.5.1 The Tidal Flat Deposits are highly variable formation and there is a tendency for the deposit to be sandy or silty CLAY. At depth, it is often interbedded with bands or laminations of silt and sand.

6.5.2 Detailed long section through the Tidal Flat Deposit showing the various clay, silt and sand units identified from Cone Penetration tests and adjacent boreholes/Mostaps (refer to geological cross section, Drawings Nos: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3012 and HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3013). The horizons interpreted through CPT's and identified by the dark blue and light blue colours are clays, clayey silts and silty clays. These zones show relatively constant or moderate increase in cone penetration with depth. Green shading indicates that material is sand mixture and yellow indicates sand.

6.5.3 The undrained shear strength plots described later on show rapid variation in strength (cone end resistance) below specific depth in each hole. This along with the colour banding shown on the geological section Drawings Nos: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3012 and HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3013 indicate the presence of sand and silt laminations and beds. Some of the clay units in this area have been proved to be up to 1m thick.

6.5.4 This interpretation is confirmed by a comparison with the soil description from adjacent Mostap samples.

6.5.5 Obtaining samples in the Tidal Flat Deposits often failed due to the low plasticity and granular nature of the ground. Laboratory testing was therefore biased by this.

Particle Size Distribution

6.5.6 Particle Size Distribution (PSD) tests were performed on eighteen (18) representative samples collected from this deposit. The individual particle size distribution curves are presented together in Appendix F Figure 6-1.

6.5.7 Analysis of the particle size distribution (PSD) graph showed the proportion of particle composition as clay and silt content varies from 10% to 100%, sand 0% to 90% and gravels less than 5%. The grading curve confirms that the deposit varies from a silty clay/clayey silt to a silty sand material.

Bulk Density

6.5.8 Appendix F Figure 6-2 show the bulk density of thirty-four (34) test on soil samples obtained along the route from the TFD were carried out. The result is consistent with depth having a minimum and maximum bulk density of 0.94 Mg/m3 1.71Mg/m3 and 2.22 Mg/m3, respectively, with a mean of 1.94 Mg/m3.

Moisture Content

6.5.9 A total of eighty-six (86) moisture content tests were carried and the moisture content with depth plot is presented in Appendix F Figure 6-3. The moisture content generally varies between 10% and 40%, mean of 20%. Within the top 2m, localised high moisture contents up to 100% (along Skippool Channel) are indicated. Some of these are due to the minor organic inclusions.

Atterberg Test

6.5.10 Tidal Flat Deposits comprises silty clays, sandy silts and silty sands. A Casagrande A line chart (Appendix F Figure 6-4) shows that material is generally low to intermediate plasticity. Few results are clays of high plasticity or silts of low to intermediate plasticity. Twelve number of tests indicated Plasticity Index of material being non-plastic. Liquidity Index has been reported to be generally between 0 and 1.

6.5.11 Tabulated ranges of Atterberg limits are provided in Table 6-2

Table 6-2: Summary of Atterberg tests

Number of tests	Min	Max	Average
Plasticity Index	7	56	17.5
Plastic Limit	11	46	21.5
Liquid Limit	20	71	36.5
Liquidity Index	-0.5	1.3	0.55

Undrained Shear Strength

6.5.12 The undrained shear strength of the Tidal Flat Deposits was determined by a combination of in-situ and laboratory tests comprising Unconsolidated Undrained Triaxial tests (16), in-situ Penetration Vane tests (8), and Cone Penetration testing (20).

6.5.13 The undrained shear has been derived using an Nk* factor of 15 (After A.C. Meigh, 1987). The results of the insitu vane tests have been corrected using a μ factor of 0.9 (After A.C. Meigh, 1987). The results have been plotted for individual sections along the Main Dyke (Appendix F Figure 6-5, Figure 6-6, Figure 6-7 and Figure 6-8). Reasonable correlation between the different tests is seen. It is probable that sample disturbance resulted in lower strengths being recorded.

6.5.14 Suggested design lines for each section along the Main Dyke are presented in Table 21 below. Generally undrained shear strength increases with depth from 16kPa at 1m to 30kPa at 5m depth. It can be seen as mentioned previously quite high and rapid variation in strength is recorded at certain levels. The plot for the laboratory triaxial tests (Appendix F Figure 6-3) shows that undrained shear strength ranges from 9kPa to 30kPa.

Table 6-3: Undrained shear strength for TFD

Chainage	Strength at 1m depth	Strength at 5m depth	Equation (y - mbgl)
1130-1380	18	40	x = 5.5y + 12.5
1380-1680	16	30	x = 3.5y + 12.5
1680-1960	20	40	x = 6y + 14
1960-2200	16	22	x = 1.5y + 14.5

Stiffness and Rate of Compression

6.5.15 A number of consolidation tests were undertaken on samples recovered mainly from clay units as sample recovery was poor due to the low plasticity in silty units. Appendix F Figure 6-10 shows coefficient of compressibility of the deposit plotted versus depth for stress ranges p' plus 50kPa and p' plus 100kPa. This is representative of the loading from proposed embankments in the area. Further interpretation (Appendix F Figure 6-11) shows a good relationship between compressibility and natural moisture content (voids ratio). This could be used in conjunction with moisture content profile to define the compressibility with depth for site specific areas.

6.5.16 Appendix F Figure 6-12 shows the coefficient of consolidation Cv for the various samples tested. Values range 0.5m2/year to greater than 20m2/year. Further examination of these results shows of high Cv were determined from samples that were non-plastic. The coefficient of consolidation relates to applied pressure which is shown in Appendix F Figure 6-14.

6.5.17 Recommendation for the rate of consolidation in the field is difficult to estimate from laboratory results due to the small size in the oedometer test which does not reflect the effect of soil fabric (silt and sand laminations). Examination of the long section indicates certain areas where two-way drainage is unlikely due to the presence of a relatively impermeable clay deposit e.g. Glacial Till. This particularly at the either end of the Tidal Flat deposit (area of CPT3 and CPT16).

6.5.18 A successful dissipation test was undertaken 4m below ground level at CPT05 of which the time to achieve 50% dissipation, t50 was 343 seconds. The resultant horizontal coefficient of consolidation, ch is 109 m2 per year.

6.5.19 In the silty clays a Cv of 3 to 4m^2/year is considered reasonable for design purposes.

Drained strength parameters

6.5.20 Consolidated undrained with pore water pressure were undertaken on 38mm diameter samples. A total of 4 number of tests were carried out to derive c' and phi'. Appendix F Figure 6-15 shows the results of these tests.

6.5.21 Individual sets of 38mm diameter samples gave a significant range in values (see Table 6-4) with occasional large cohesions and corresponding low friction angles. However, when considering the tests results overall, the friction angle of 27^0 is considered appropriate.

Table 6-4: Drained Strength Parameters

Borehole/depth	C' (kPa)	Phi' (Degrees)	PI
BH05 – 3.5m	208.6	24.1	13
BH06-1 – 2.7m	0	28.2	-
BH08 – 1.5m	40.1	17.2	24
BH08 – 2.5m	4.4	36.5	23

6.6 Glacial Till

6.6.1 This soil is described as 'soft to firm becoming very stiff dark red brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is sub-rounded to rounded fine to coarse of various lithologies including mudstone and sandstone with low sub-angular cobble content of sandstone and low boulder content of sandstone.' Generally Glacial Till is soft to firm where it is situated above Glaciofluvial Deposit.

Particle Size Distribution

6.6.2 Particle size distribution tests and the grading curves are shown in Appendix F Figure 6-16. The Glacial Till is characterised as being well graded, comprising clay (7% to 17%), Silt (26% to 65%), sand (40% to 60%) and gravel to 20%

Bulk Density

6.6.3 The bulk density is shown in Appendix F Figure 6-17. The values ranged between 1.67 Mg/m^3 and 2.62 Mg/m^3 with an average value of 2.15 Mg/m^3.

Particle Density

6.6.4 4 No particular density tests were carried out which indicates particular density ranges from 2.67 Mg/m3 to 2.74 Mg/m^3 with mean value of 2.7 Mg/m^3.

Moisture Content

6.6.5 The moisture content of all the samples tested varied between 2% and 29% with an average value of 13%. For the upper 5m, the moisture content ranged between 8% and 29% (with mean of 15%). At depths below 5m bgl, the moisture content ranges between 5% (one result at 2% perhaps due to a cobble) and 27% (with mean of 11.8%). Appendix F Figure 6-18 illustrates moisture contents against depth for Glacial Till.

Atterberg Limits

6.6.6 The summary of the Atterberg tests (120) is presented in Table 6-5. A Casagrande A line chart (Appendix F Figure 6-19) shows that material is generally of low plasticity. Few results indicate clays of intermediate to high plasticity.

6.6.7 Few of the intermediate/high plasticity tests are reported at the depth between 10m and 15m bgl at Lodge Lane where deposit is recorded as being laminated.

6.6.8 Between ground level and 5m depth, the Liquidity Index ranges from +0.6 to -0.5. The Liquidity Index is less than +0.1 below 5mbgl (Appendix F Figure 6-20).

Table 6-5: Atterberg test results

Index Property	Minimum	Maximum	Mean
Plastic Limit (%)	11	25	14
Liquid Limit (%)	20	53	28
Plasticity Index (%)	6	31	13
Liquidity Index (%)	-0.85	0.88	-0.052

Undrained Shear Strength

6.6.9 In-situ and laboratory testing were undertaken to measure the undrained shear strength of the Glacial Till. The field tests included Hand Vane Shear Test (VST), Cone Penetration Test, Penetration Vane test and Standard Penetration Tests (SPT) while the laboratory tests comprised Unconsolidated undrained Triaxial test on 100mm specimen.

6.6.10 Undrained Triaxial Tests indicate considerable scatter with strength ranging up to 700kPa. The results of Standard Penetration tests are presented in Appendix F Figure 6-21 and it shows values ranges from 8 to over 50. A lower bound line is represented by line N=2z+3 up to depth of 12mbgl then the remaining constant of SPT N=25. The lower strengths may be due to the presence of the Laminated Till present in BH13 and BH103. An upper bound line is represented by line N=4.5z+6 up to depth of 15mbgl.

6.6.11 Adopting the relationship by Stroud and Butler (1975) between SPT N and shear strength Cu=5N, these lower and upper bound lines are reproduced on the undrained shear strength plot (Appendix F Figure 6-22).

6.6.12 Many results are shown below the lower bound line. This is probably due to sample disturbance. There is an indication of lower strength 100kPa (N=20) at depth between 12m to 18m at Lodge Lane, which correspond with laminated deposits.

6.6.13 A total of two (2) Cone penetration tests were undertaken in the Glacial Till deposits at CPT18 and CPT20. The graphical results of undrained shear strength with depth are shown in Appendix F Figure 6-23.

6.6.14 The undrained shear has been derived using Nk* factor of 20 (After A.C. Meigh, 1987). This shows the undrained strength increasing from 50 kPa to about 140 kPa between 1.6mbgl and 2.5mbgl and dropping back to about 60 kPa at depth of 3.5mbgl.

Stiffness and Compressibility

6.6.15 Calculated values of coefficient of compressibility for stress increment of 100kPa is excess of the in-situ effective overburden stress varies from 0.05m2/MN to 0.3m2/MN near ground surface and reduces to about 0.05 to 0.1 with depth and it is presented in Appendix F Figure 6-24. This plot shows the upper and lower bound values based on the relationship mv=1/500*N (Ref. Stroud and Butler).

6.6.16 Vertical stiffness Ev' may be related to SPT N value (correlated to PI) after Stroud and Butler. For Plasticity Index of 15. Published results for Irish Tills of similar plasticity based on field data indicate the relationship factor of 0.8 between Ev' and SPT N, which is somewhat lower than the factor of 1.4 as reported by Stroud. For this site we recommend the drained vertical modulus of Ev'=N.

Drained strength parameters

6.6.17 Consolidated undrained triaxial tests with pore water pressure were undertaken on 100mm diameter samples. Total of 5 number of single stage tests and 2 number multistage were carried out to derive c' and phi'. Appendix F Figure 6-25 shows the results of these tests which gives a moderately conservative friction of angle 33^0 and cohesion c'=0. This is supported by the relationship between PI and angle of shearing resistance adapted from Gibson (1953).

Remoulded Properties of Glacial Till

6.6.18 Three trial pit locations were designated for relationship testing within the Borrow Pit area at Lodge Lane for the purpose of assessing soil suitability of Glacial Till. These are TP105, TP107, and TP109. A series of Triaxial tests, MCV calibration tests, Laboratory Hand Vane tests, and CBR tests were conducted on samples at different moisture contents. Plots were developed to illustrate for the following relationships:

- Undrained Shear Strength against Moisture Content (Appendix F Figures 6-26 to 6-28)
- MCV against Moisture Content (Appendix F Figures 6-29 to 6-31)
- CBR against Moisture Content (Appendix F Figures 6-32 to 6-34)

6.6.19 These results were used to develop a relationship between undrained shear strength and MCV.

6.6.20 A lower bound value of undrained shear strength suitable to be used for earthworks is 40kPa. (Parsons, 1978)

6.6.21 Empirically-derived undrained shear strengths were calculated from CBR values to enhance the data plot of Undrained Shear strength Vs. Moisture content to subsequently produce a line of best fit with greater accuracy. The relationship used was Cu = 23*CBR (Black & Lister, 1979).

6.6.22 A line of best fit for the Undrained Shear Strength vs. Moisture Content has been developed to establish the relationship numerically.

6.6.23 In development of the relationships, MCV values of 7 and 9 have been selected. These values correspond to an undrained shear strength and CBR at associated moisture contents. For an MCV of 7, the undrained shear strengths range between 35kPa to 40kPa, and CBRs range between 0.8 and 3 (average of 1.76). For an MCV of 9, the undrained shear strengths range between 45kPa to 60kPa, and CBRs range between 2.2 and 5 (average of 3.13).

6.6.24 For the assessment of soil suitability for the reuse of material it is recommended that an overall assessment should not be based solely on the limited MCV tests, but to take into consideration other tests such as in-situ undrained strength and index properties such as moisture content and liquidity index.

MCV

6.6.25 Sixty MCV tests were undertaken, and the values ranged between 0.2 and 14.9 with the average of 6.8. The data is presented in Appendix F Figure 6-35.

Compaction

6.6.26 There were five compaction tests carried out with a 2.5kg rammer, and three compaction tests undertaken with a 4.5kg rammer. A plot of optimum moisture content against maximum dry density has been included in Appendix F Figures 6-36 and 6-37.

6.6.27 The range of the optimum moisture contents (OMC) for tests undertaken with the 2.5kg rammer is between 5% and 20% with corresponding maximum dry densities between 1.77Mg/m^3 and 2.04Mg/m^3

6.6.28 The OMC results from the 4.5kg rammer ranged between 7% and 11%, with corresponding maximum dry densities between 1.96Mg/m3 and 2.05Mg/m^3.

6.7 Glaciofluvial Deposits

6.7.1 The Glaciofluvial Deposits were generally encountered throughout the route alignment. It is generally a silty fine SAND, with a highly variable percentage of silt and clay. Some samples show a small gravel fraction (less than 10%).

Particle Size Distribution

6.7.2 Particle Size Distributions that were conducted on twenty-five samples. Generally, the composition of the material is of up 5% gravels, between 60% and 80% sand, and between 20% and 40% silts and clays. However, TP10 at 1.2m depth below ground level indicates a fines content of 60%, and nine tests represented samples with no or very low percentage of fines content. Appendix F Figure 6-38 illustrates each plot for the Glaciofluvial Deposits.

Bulk Density

6.7.3 Four bulk densities were reported for Glaciofluvial Deposits which range from 1.66Mg/m^3 to 2.29Mg/m^3 with an average of 2.01Mg/m^3.

Particle Density

6.7.4 Four particle density tests were undertaken in the Glaciofluvial Deposits that ranged between 2.66Mg/m^3 and 2.68Mg/m^3.

Moisture Content

6.7.5 There have been 23 tests for moisture content with a range of 7.4% to 25% with an average of 16%. The values are plotted in Appendix F Figure 6-39.

Atterberg Limits

6.7.6 Thirteen Atterberg limit tests were carried out of which seven reported no plasticity. For the remainder of the tests, the range of Liquid Limit was 19% to 36% with an average of 25%. Furthermore, the Plastic Limit ranges between 10% and 18% with an average of 13%. The Plastic Index ranges between 7 and 21 with an average of 12.5. It is indicated by the Casagrande/A-Line plot (Appendix F Figure 6-40) that all samples are above the “A” line and is generally considered as a low plasticity clay where there are sufficient fines present to make it cohesive In-Situ Testing (SPT/CPT)

6.7.7 There were 79 SPTs undertaken in Glaciofluvial Deposits of which the ‘N’ value varied between 0 and 50 (maximum of 85 reported for historical BHs), with an average of 17. These results are plotted in Appendix F Figure 6-41. An individual assessment across Skippool Channel and the rest of the alignment has been made (as shown in Appendix F Figures 6-42 and 6-43) and proved that ‘N’ values were generally between 2 and 10 with depth indicating it is loose. For the rest of the site (excluding BH14 and BH18), the ‘N’ value ranges from 8 to 30 (indicating medium dense), with a noticeable increase with depth. BH18 at chainage 3540m, and BH14 at chainage 3200m, the ‘N’ values were at or below 5 which may be due to localised high silt content.

6.7.8 The lower ‘N’ values (below 8) appear to have a higher fines content consisting of clays or silts.

6.7.9 Glaciofluvial Deposits were encountered along Skippool Channel in each of the CPTs that was carried out. A plot of cone resistance against depth is shown in Appendix F

Figure 6-44. It can be observed that the cone resistance varies between 2MPa and over 20MPa with an increasing trend with depth. Typically, the cone resistance is 2MPa at 4m depth increasing to 10MPa at 12m depth. In between these depths, there are spikes of higher cone resistances.

6.7.10 Stiffness can be derived from these results and the following values of E' may be taken.

$$E' = N\ (Stroud\ and\ Butler)$$
$$or$$
$$E' = 1.5 * qc\ (Meigh, Cone\ Penetration\ Testing, 1987)$$

The test values above would indicate with the exception of BH14 and BH18 the following global values of stiffness:
Skippool Channel: E' = 3MPa at 4m depth, and E' = 15MPa at 12m depth.
Rest of Alignment: E' = 10MPa at 2m depth, and E' = 20MPa at 10m depth.

Shearbox

6.7.11 Six shearbox tests were carried out on Glaciofluvial Deposits. These were compacted a natural moisture contents on samples from trial pits, and at optimum moisture content in samples from boreholes. The samples contained between 2.6% and 34% of fines. The peak and residual shear stress plots are included in Appendix F Figures 6-45 and 6-46 respectively. The peak angle of friction from these tests gave values between 28^0 to 38^0, and residual friction angles between 26^0 and 33^0.

6.7.12 Omitting the two samples with a high silt content (BH106 and TP108), the average peak friction angle is 340.

6.7.13 Residual angles of friction from the test indicates an angle of 310 for fines content up to 15%, and 260 for fines content greater than 30%.

6.7.14 The recommended angle of friction for the Glaciofluvial Deposits is shown in Table 6-6.

Table 6-6: Atterberg test results

Grading	Peak angle of Friction (Degrees)	Residual angle of Friction (Degrees)
Fines Content <20%	33	31
Fines Content >25%	28	26

Remoulded properties of Glaciofluvial Deposits (MCV/CBR)

6.7.15 Three MCV (point) tests were carried out giving values between 3.4 and 4.7.

6.7.16 Relationship testing was undertaken for the Glaciofluvial Deposits in the location of TP108 for the purpose of assessing soil suitability. A series of CBR and compaction tests were carried out on 90kg bulk samples. Plots were developed to illustrate test results for:

- Moisture Content against Dry Density (Appendix F Figure 6-47)
- CBR against Moisture Content (Appendix F Figure 6-48)

6.7.17 This sample used for these tests exhibited an unexpected high silt and clay content of 34% and is not representative of the bulk of the material.

6.7.18 The optimum moisture content was found to be at 17% for a dry density of 1.7Mg/m^3. The OMC value and OMC + 2% values were plotted onto the CBR against Moisture Content plot. Using a line of best fit, the result was:

- OMC (17%) = CBR of 4
- OMC + 2% (19%) = CBR of 2 to 3

Compaction

6.7.19 There were eight compaction tests with a 2.5kg rammer, and two compaction tests with a 4.5kg rammer carried out. Plots of the optimum moisture contents against maximum dry densities for both the 2.5kg set and 4.5kg set are shown in Appendix F Figures 6-49 and 6-50.

6.7.20 For the 2.5kg compaction tests, the optimum moisture content ranges between 10.5% and 16% with maximum dry density between 1.63Mg/m3 and 1.89Mg/m3 (1.77Mg/m3 when excluding TP10).

6.7.21 For the 4.5kg compaction tests, the optimum moisture content ranges between 9.5% and 14% with maximum dry density between 1.77Mg/m3 and 1.925Mg/m3.

6.7.22 The compaction curves for TP10 at 1.2m depth below ground level is not considered typical as the high percentage of silts and clay is not typical of Glaciofluvial Deposits.

6.8 Singleton Mudstone

6.8.1 There was a total of six boreholes that encountered the Singleton Mudstone Member, and these are listed below:

- BH01A
- BH104
- BH13
- BH101
- BH103
- BH14/3936 (Historical)

6.8.2 All the above was undertaken during the ground investigation pertaining to this report with the exception of BH14/3936. Pile foundations will be built in the vicinity of Skippool Bridge and Lodge Lane Overbridge.

Particle Size Distribution

6.8.3 A single PSD curve was produced at 28.7m below ground level for BH103 which indicated that the sample contained 72% gravel, 5% sand, 16% silts and 7% clays. This plot is shown in Appendix F Figure 6-51.

Bulk Density

6.8.4 There was one test carried on BH104 at a depth of 11.7m below ground level which yielded a result of 2.21mg/m^3.

Atterberg Limits

6.8.5 There have been three Atterberg limit tests conducted which yielded a range of liquid limit of 36% to 42%, with an average of 38%. The Plastic Limit ranged from 18% to 23% and averaged 21%. Plasticity Index ranged from 15% to 19% and averaged 17%. These results indicate the weathered material is a low to intermediate plasticity clay. These tests would have been undertaken only on the cohesive components of the samples, and therefore, may not be representative of the mass material.

Skippool Bridge (Chainage 500 Approx.)

6.8.6 BH01A is located within the confines of Keyworker Homes site, and BH104 is located within the Caravan Park, which both are adjacent to the west abutment to Skippool Bridge. BH14/3936 is in proximity of the lay-by approaching Skippool Junction. Generally, in this section, from 10m to 15m depth below ground level, the strata consist of weathered Mudstone followed by competent Mudstone up to a proven depth of 27.5m below ground level. In other words, the top of bedrock is at 10m below ground level. The descriptions of Mudstone at these locations is tabulated in Table 6-7.

Table 6 7: Solid Geology Descriptions at Skippool Bridge

BH ID	Top (mBGL)	Base (mBGL)	Description	Average SPT	Fracture Spacing (Intact/Avg./ Max.)
BH01A	9.8	10.5	Stiff brown slightly sandy slightly gravelly clay. Gravel is subangular fine of mudstone. (possible weathered singleton Mudstone)	33	
BH01A	10.5	15	Grey and red mottled subrounded cobbles of mudstone and siltstone. (probable singleton mudstone)	50 for 158mm	
BH01A	15	15.45	Soft grey slightly gravelly silt. Gravel is subangular fine and medium of mudstone. (weathered singleton mudstone)		

BH ID	Top (mBGL)	Base (mBGL)	Description	Average SPT	Fracture Spacing (Intact/Avg./ Max.)
BH01A	15.45	27.5	Very weak to weak reddish brown and grey mottled mudstone. Discontinuity: Joints, sub horizontal (0-10deg.) very closely to closely spaced, planar and stepped, rough. (Singleton mudstone)		NI 200 400
BH104	10.5	14.2	Very stiff brown mottled grey slightly sandy gravelly clay with occasional pockets of siltstone gravel. Gravel is angular to subangular fine to coarse of mudstone. siltstone, mica and quartz. (Weathered singleton mudstone)	50 for 205mm	
BH104	14.2	14.85	Thinly laminated grey locally mottled brown siltstone recovered as angular to subrounded fine to coarse gravel. (singleton mudstone)	50 for 40mm	
BH104	14.85	16.7	Rotary open hole		
BH104	16.7	16.84	AZCL.		
BH104	16.84	24.7	Extremely weak to very weak reddish brown and grey mudstone with occasional laminations. Numerous gypsum veins throughout. Discontinuities are: Set 1 subhorizontal (0-10 deg), very closely to closely spaced, planar, undulating and rough. Set 2 subhorizontal (20 deg) closely to medium spaced, planar, undulating, rough and		NI 90 200 (19m) NI 150 300 (25m)

BH ID	Top (mBGL)	Base (mBGL)	Description	Average SPT	Fracture Spacing (Intact/Avg./ Max.)
			smooth. (singleton mudstone)		
BH14/3936	12	15.8	Stiff becoming very stiff brown with zones of grey very silty clay, tending in parts to very weak marl, with occasional bands of gypsum and inclusions of silt. (weathered singleton mudstone)	52	

6.8.7 RQD range from 17% to 88% for BH01A, and 22% to 100% for BH104.

6.8.8 Generally, the cores were characterised as non-intact, with average fractures at 90mm to 200mm, of which the maximum was 400mm.

Strength

6.8.9 The number of blows recorded in the SPT tests were greater than 50 for the most part and did not achieve 450mm penetration (instead achieved between 40mm to 242mm penetration). However, at 10.7m below ground level (top of weathered Mudstone strata) at BH01A, an N value of 40 was reported. Furthermore, in the historical BH14/3936, the SPTs reached full penetration, starting at an N value of 25 at the top of the weathered Mudstone strata, and reached an N value of 66 at 15m below ground level (5m below top of bedrock).

6.8.10 A single quick undrained triaxial test was carried on BH104 at a depth of 11.7m below ground level and yielded a shear strength of 330kPa for an initial moisture content of 16%.

6.8.11 Four point-load tests had been carried out on BH01A and BH104 within the Mudstone ranging between depths of 20m to 26m below ground level (10m to 16m below top of bedrock). The results are presented in Table 6-7.

Table 6-8: Point-Load Test Results at Skippool Bridge

BH ID	Depth (mBGL)	Test Type	Is (MPa)	Is_{50} MPa
BH01A	22.82	A + L	0.06	0.08
BH01A	26.60	A + P	0.05	0.07
BH104	20.32	A + L	0.05	0.07
BH104	24.47	A + L	0.09	0.11

6.8.12 A single UCS test was carried out on BH01A at the depth range of 21.57m to 21.8m below ground level. The core failed under multiple shear and yielded a UCS result of 2.1MPa

6.8.13 Converting the point load results into an equivalent UCS using a conversion factor of 24 (Bieniawski, 1975), an average value of 2MPa is achieved. This value is supported by what was recorded in the SPTs, and the UCS test carried out. The Mudstone is therefore considered to have a uniaxial compressive strength of 2MPa. The weathered material will have an undrained strength of to an excess of 500kPa based on the SPT data.

Lodge Lane (Chainage 3100 Approx.)

6.8.14 BH13 and BH103 are positioned west of Lodge Lane, and BH101 is located to the east of Lodge Lane of which all are located within the footprint of the proposed overbridge. Generally, the top of bedrock is founded at 27m below ground level of which the Mudstone up to 3m below top of bedrock is weathered. The descriptions of Mudstone at these locations is tabulated in

6.8.15 Table 6-8.

Table 6-9: Solid Geology Descriptions at Lodge Lane

BH ID	Top (mBGL)	Base (mBGL)	Description	Average SPT	Fracture Spacing (Intact/Avg./Max.)
BH101	26.9	28	Brown siltstone recovered as angular to subangular fine to coarse gravel. (Singleton mudstone)	50 for 114mm	
BH101	28	28.3	AZCL. (singleton mudstone)		
BH101	28.3	33	Extremely weak to very weak reddish brown with grey mottling MUDSTONE with numerous gypsum veins. Discontinuities Set 1: Joints subhorizontal (0-20deg.) closely to medium spaced, planar and undulating, smooth with clay smearing. Discontinuities Set 2: Joint, subvertical (approx. 90deg.) planar and stepped, smooth. (Singleton mudstone)		NI 170 430
BH103	28	30.15	Recovered as grey angular cobbles of mudstone with slightly sandy clay. (probable singleton mudstone)	50 for 43mm	
BH13	27.2	30	Reddish brown with occasional greyish blue spots mudstone recovered as clayey fine to coarse gravel and cobbles of mudstone.	50 for 87mm	

BH ID	Top (mBGL)	Base (mBGL)	Description	Average SPT	Fracture Spacing (Intact/Avg./Max.)
			(singleton mudstone)		
BH13	30	36.5	Extremely weak to very weak reddish brown and grey mottled mudstone. Numerous gypsum veins throughout. Discontinuity: Sub-horizontal (0-20deg.) very closely to closely spaced, planar and undulating, smooth and rough. (singleton mudstone)		NI 170 300

6.8.16 RQD range from 47% to 57% for BH13, and 33% to 80% for BH101.

6.8.17 Generally, the cores were characterised as non-intact, with average fractures at 170mm of which the maximum was 430mm.

Strength

6.8.18 Six point-load tests had been carried out on BH101 and BH13 within the Mudstone ranging between depths of 30m to 34m below ground level (3m to 7m below top of bedrock). One test was reported to have an invalid failure and has not been included in Table 6-9. The results are presented in Table 6-9.

Table 6-10: Point-Load Test Results at Skippool Bridge

BH ID	Depth (mBGL)	Test Type	Is (MPa)	Is_{50} MPa
BH101	30.53	A + L	0.02	0.02
BH101	31.13	A + U	0.03	0.04
BH101	31.33	A + L	0.03	0.04
BH13	30.3	A + L	0.03	0.04
BH13	34.34	A + L	0.01	0.02

6.8.19 The SPT 'N' values were all recorded to be greater than 50 and achieved a range of penetrations between 40mm to 106mm.

6.8.20 Converting the point load results into an equivalent UCS using a conversion factor of 24 (Bieniawski, 1975) an average value of 0.8MPa is achieved. It is considered that the SPT would indicate a higher strength value. The strength of the Mudstone at Lodge Lane is considered to have a uniaxial compressive strength of around 1MPa.

6.9 California Bearing Ratio (CBR)

6.9.1 Seven CBR lab tests were carried out on remoulded samples of which one was within the Tidal Flat Deposits, one within the Glaciofluvial Deposits, and one within Alluvium, and the remainder in the Glacial Till. These are reported in the table 6-10.

Table 6-11: CBR (Point) Test Results

BH ID	Strata	Depth (mbgl)	CBR Top (%)	CBR Base (%)	MC Top (%)	MC Base (%)
BH01A	TFD	2.7	0.26	0.26	29	28
WS112	TILL	1.2	2	2	14	14
BH17	GFDU	0.7	0.24	0.21	18	18
BH18	TILL	0.7	1.1	1.2	19	19
TP14	TILL	0.4	2.2	1.9	20	21
TP14	TILL	1.4	1.2	1.2	18	16
BH11A	ALV	1.2	0.1	0.15	36	29

6.9.2 CBR calibration tests were undertaken on remoulded samples to facilitate relationships with other parameters as discussed in sections of Glacial Till and Glaciofluvial Deposits.

6.9.3 A set of eleven Dynamic Cone Penetrometer (DCP) tests were undertaken at various locations across the route alignment, and resultant CBR values are tabulated in Table 6-11.

Table 6-12: CBRs Derived from DCP Tests

BH ID	Strata	Depth (mbgl)	CBR (%)
DCP01 (WS102)	MG / TILL	0.03 to 0.08 0.08 to 0.49 0.49 to 1.46	34 5.8 11
DCP02 (WS111)	TS / TILL	0.17 to 0.30 0.30 to 0.70 0.70 to 1.00 1.00 to 1.54	3.5 11 18 32
DCP03 (TP01)	TS / TILL / GFDU	0.06 to 0.36 0.36 to 0.94 0.94 to 1.12 1.12 to 1.21 1.21 to 1.57	8 25 10 59 17

BH ID	Strata	Depth (mbgl)	CBR (%)
DCP04 (WS107)	TS / TFD	0.07 to 0.59 0.59 to 1.20 1.20 to 1.57	8.9 13 18
DCP05 (TP03)	MG / TILL	0.06 to 0.29 0.29 to 0.49 0.49 to 0.82 0.82 to 1.20 1.20 to 1.52	7.4 4.7 15 28 46
DCP06 (TP10)	TS / TILL / GFDU	0.06 to 0.18 0.18 to 0.71 0.71 to 1.15 1.15 to 1.64	3 8.4 15 19
DCP07 (WS105)	TS / PEAT	0.15 to 0.40 0.40 to 0.92 0.92 to 1.66	9.6 17 8.8
DCP08 (TP15)	TS / TILL	0.26 to 0.44 0.44 to 0.85 0.86 to 1.35 1.35 to 1.46 1.46 to 1.70	2.4 9.4 13 48 40
DCP09 (WS104)	MG / TILL	0.26 to 0.37 0.37 to 0.79 0.82 to 1.50 1.50 to 1.70	8.9 5.1 8.5 19
DCP10 (BH10)	TS / TILL	0.15 to 0.31 0.31 to 0.65 0.71 to 1.34 1.34 to 1.69	1.4 9.8 13 26
DCP10-1 (TP14)	TS / TILL	0.07 to 0.67 0.67 to 0.95 0.95 to 1.17 1.17 to 1.51	7.6 9.9 16 25

6.10 General site wide hydrogeological conceptual model

Aquifer units

6.10.1 Reference should be made to Section 3.13 (assessed existing hydrogeology) above. However, the ground investigation (Socotec Ltd., 2018) has shown that the aquifers comprise:

- An extensive cover of Glacial Till made up of clay that is thin on hilltops and thickens on hillslopes and valley bottoms, designated as a Secondary Undifferentiated aquifer;
- An extensive and persistent sand layer comprised of Glaciofluvial Deposits of undulating topography and variable thickness (between 0.1 m to 9.3 m with an average thickness of 1.3 m) and variable silt content and designated as a Secondary Type A aquifer;
- A thick lower Glacial Till made up of clay, designated as a Secondary Undifferentiated aquifer; and
- A relatively deep sub-crop of Singleton Mudstone Formation designated as a Secondary Undifferentiated aquifer.

6.10.2 The upper and lower Glacial Till are comprised of clays and of low transmissivity. The range of transmissivity for the clay till in the Scheme is between $4.46x10^{-6}$ to $8.93x10^{-11}$ m/s and it has an average (geomean) of $7.1x10^{-8}$ m/s (Table 5-7). In general, the till material is described as “soft to firm reddish brown slightly sandy and gravelly CLAY” (an example of a typical taken from BH13 (Socotec Ltd., 2018).

6.10.3 In-situ testing and analysis of PSD curves suggests for the Glaciofluvial Deposits show that the Glaciofluvial Deposits largely comprise sand and have a hydraulic conductivity of between $1.66x10^{-4}$ to $2.2x10^{-7}$ m/s with an average (geomean) of $3.70x10^{-6}$ m/s.

Water levels and flow direction

6.10.4 The water table across the Scheme generally follows the topographic surface but is locally influenced by the thickness and elevation of the Glaciofluvial Deposits aquifer or by the thickness of the confining layers.

6.10.5 West of Skippool Bridge the water level is at around 3.1 to 4.3mAOD, between 1.1 to 2.3mbgl at BH104. In this area Tidal Flat Deposits are present, and it is likely that the water table is controlled by upward leakage and groundwater discharge to the Main Dyke channel and town drainage.

6.10.6 100 m west of Skippool Bridge the ground rises over a relatively small area to approximately 13mAOD and the water table follows topography, remaining between 1.6 and 2.6mbgl in this area at BH04.

6.10.7 North-west of Garstang Road East and up to Mains Lane adjacent to the Main Dyke the water level is between 3.5 to 4mAOD, about 0.5m below ground level. In this area tidal flat deposits are present, and it is likely that the water table is controlled by leakage from the Tidal Flat Deposits into the Main Dyke.

6.10.8 South of Garstang Road East the scheme starts climbing towards the Lodge Lane cutting and Singleton Hall. The water level remains at about 0.5mbgl within the Tidal Flat deposits (Tidal Flat Deposits) until Glaciofluvial Deposits of over 5m thickness are encountered at BH19 and BH12 with a water table at 3 to 5mbgl. The water table is

likely low here because of the relatively high transmissivity of the Glaciofluvial Deposits aquifer in part due to its thickness. Groundwater flows are towards the west, down topographic slope.

6.10.9 At Lodge Lane Cutting the Glaciofluvial Deposits unit is between 1 m bgl and 3 m bgl and is 1 m to 4 m thick, with a higher silt content in places (e.g. BH13). The water table sits at the very top of the Glaciofluvial Deposits, potentially confining it in places. The depth to water is very shallow at around 1.3mbgl, due to the shallowness of the Glaciofluvial Deposits aquifer. The Glaciofluvial Deposits layer is likely recharged from further to the east along the Scheme route where the Glaciofluvial Deposits is mapped at outcrop around BH101 and BH14 where a groundwater divide is present. BH14 has a water table at 19.47mAOD, compared to 19mAOD at BH103 (130m west) and 17mAOD at BH15 (70m east).

6.10.10 The Glaciofluvial Deposits sand layer remains present eastwards and dips down-slope, as does the water table, which falls to 15.5mAOD at BH18 and 13.04mAOD at TP14 near Garstang New Road.

6.10.11 At the eastern end of the scheme a smaller drainage feature is crossed due south of the Windy Harbour Holiday Centre. This is indicated by geological mapping to be coincident with an area of Tidal Flat Deposits. Drilling at BH11A indicates that artesian conditions are likely to be encountered at a depth of 8mbgl, where the Glacial Till up to 4m thick provides a confining seal.

6.10.12 In large areas of the area surrounding the Scheme and within the Scheme there are numerous ponds and lakes. These are likely to be surface water ponds on impermeable soils indicative of Glacial Till at outcrops (numerous). A lack of ponding at the ground surface appears to correlate with the presence of the shallow and persistent Glaciofluvial Deposits sand aquifer located by the ground investigation, which is seen to reduce the water level and enable recharge to occur.

Artesian conditions

6.10.13 Artesian conditions were encountered during installation of BH11A (Socotec Ltd., 2018) and BH13/3936. Both sites are located within 30m of each other at the eastern end of the scheme, due south of Windy Harbour Holiday Centre.

6.10.14 BH11A is located south of Bankfield Manor about 500m from the eastern end of the scheme. The borehole log for BH11A shows that a sand was encountered at 8.05mbgl and that final depth was unable to be achieved because the water level rose to -1.94mbgl. BH11A has a topographic elevation of 4.93mAOD and is situated in an alluvial valley floor in which the outcrop geology is mapped as Tidal Flat deposits. BH13/3936 is located 30m east-north-east of BH11A in the same valley and geology and is noted as also experiencing artesian conditions. At these locations there is 4m of Glacial Till that acts as an effective confining seal.

6.11 Chemical testing for soil classification

6.11.1 In accordance with BRE Special Digest 1:2005 Third Edition "Concrete in Aggressive Ground", Table C1 for green field locations, the Design Sulphate Class and ACEC Class have been established based upon the laboratory results summarised in Table 6-12.

6.11.2 The results of an analysis indicate water soluble sulphates content is up to 336 mg/l with pH in the range of 7.4 to 9.2. Therefore, a Design Sulphate Class of DS-1 and ACEC Class of AC-1 can be adopted.

6.11.3 Eighteen chloride tests were undertaken with values ranging from 2mg/l to 219mg/l, with the average being 45mg/l. According to BRE Special Digest, a relationship between chlorides and soluble sulphates can be established by:

$$Cl = Cl\ x\ 1.35\ \left(\frac{mg}{l}\right) SO4$$

6.11.4 Based on chlorides and pH, the ACEC classification is designated as DS-1 AC-1.

Table 6-13: Summary of Chemical Testing

Test	Minimum	Maximum	Mean	Standard Deviation
SO_4 -- (acid soil) mg/kg	28	1310	296.68	254.24
SO_4 -- (H_2O soil) mg/l	<10	336	52.46	62.42
Organic matter %	0.6	33.6	10.73	13.03
PH	7.4	9.2	8.47	0.47
Total sulphate	0.014	0.185	0.49	0.04

6.12 Contaminated Land

6.12.1 A summary is provided here, and further details are provided in the Geo-Environmental Risk Assessment presented in Appendix H and the Geotechnical Risk Register.

6.12.2 Fifty-one soils samples in this section were analysed for a range of contaminants. None of the samples exceeded generic assessment criteria protective of human health under a public open space land use. Based on the collected soil samples and assessment, it is unlikely that there is a significant risk to humans from underlying shallow soils across the scheme.

6.12.3 Ten soil leachate samples were analysed for leachable contamination and were compared directly to water quality standards protective of surface waters and drinking water aquifers. Minor exceedances of zinc, copper, lead and chromium VI and III were recorded in 9 exploratory holes. Nine groundwater samples were taken from nine boreholes. Contaminant concentrations were compared to water quality standards protective of surface waters and drinking water aquifers. Minor exceedances of zinc lead and chromium III were recorded in 8no. boreholes, although these may be indicative of background soil metal concentrations. Where materials are to be re-used onsite, consideration should be given to protection of surface waters from leachable heavy metals, and further assessment may be required to verify that soils are suitable for reuse.

6.12.4 Based on a review of the limited available data, the potential risk of ground gas is considered to be low. However, the presence of potentially confined spaces onsite may pose an acute risk to construction / maintenance workers.

6.12.5 There is no evidence of widespread contamination, but a watching brief should be undertaken by the Contractor during the works to identify the presence of any potential contamination not detected by the site investigation.

6.12.6 Further details with respect to material re-use and waste classification are presented in Appendix H.

7 GEOTECHNICAL RISK REGISTER

7.1.1 The Geotechnical Risks and the measures taken to mitigate those risks are identified in this section.

7.1.2 Risk identification has been defined according to the guidance set out by Clayton (2001).

Table 7-1: Geotechnical Risk Register – Key and Register

Effects	Likelihood	Degree of Risk	Risk Level	Action Required	Geotechnical Actions
1	1	1	Trivial	None	Can be ignored
2	2	2			
3	3	3			
4	4	4	Significant	Consider more cost-effective solutions or improvements at no extra cost	Low risk may be acceptable
		6			
		8			
		9	Substantial	Work must not start until risk has been reduced. Additional resources required	High risk apply mitigation or transfer risk
		12			
		16	Intolerable		Eliminate risk e.g. redesign

Geotechnical Risk Register						A585 Skippool to Windy Harbour	Author	KK	
							Approver	JB	
							Revision	1	
							Date	June 2018	
Risk No.	Hazard Description	Route	Effect x Likelihood = Risk			Design Measures to Manage the Risk	Effect x Likelihood = Residual Risk		
			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
General Risks									
1	Locating/ encountering/ diverting unknown/ unrecorded services.	All	Medium 3	Medium 2	6	Ensure adequate surveys to locate services prior to construction and allowed adequate time in the programme	Medium 2	Low 1	2
2	Presence of buried structures	All	Medium 3	Medium 2	6	Carry our desk study to identify any potential of buried structure location	Medium 2	Low 1	2
3	Unexpected ecological finds	All	Medium 2	Medium 2	4	Designer to review the relevant information; specialist consultation and ecological survey is required. Contractor to observe during construction	Low 1	Low 1	1
4	Presence of historical in-filled ponds in the result encountering unsuitable founding strata and contaminated material	All	Medium 3	Medium 3	9	GI undertaken has determined general ground conditions and geological profile along the route. Further ground investigation is required in specific areas following design development and current restrictions on access, e.g: Skippool Clough culvert, Lodge Lane Bridge, Skippool Bridge (Petrol station site and back garden of the private property), Grange Footbridge, Skippool Channel (additional CPT's)	Low 1	Low 1	1

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
5	Risk of unknown historic salt mine workings; unknown mine shafts and underground tunnels	All	Medium 2	Medium 3	6	Historical maps review undertaken. No evidence of brine workings in vicinity of scheme.	Medium 2	Low 1	1
6	Variable lithology of the Glacial Till Deposit (including unforeseen presence of water filled sand channels).	All	High 4	High 4	16	GI is completed and designer to be aware of the impact of the variability on the engineering performance of this deposit (earthworks suitability, slope and cutting stability and settlement) during design process.	Medium 2	Medium 2	4
7	Location of surface water infiltration ponds unsuitable or inadequate for disposal for surface water runoff from highway due to lower permeability of ground than anticipated.	All	Medium 3	High 4	12	Ensure adequate investigation of soakage ponds	Medium 2	Low 1	2
8	Presence of running sand in temporary excavations or earthwork cutting below the water table (Glaciofluvial Deposit)	All	High 4	Medium 3	12	Allow for dewatering prior to excavations. Provide adequate permanent drainage to earthworks. Ensure GI provides adequate knowledge of the groundwater levels at discrete horizons.	Medium 2	Medium 3	6

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
9	Stability of plant, in particular working on soft ground.	All	High 4	Medium 3	12	Correctly designed plant platforms. Ensure operatives are aware of danger.	High 4	Low 1	4
10	Impact of perched water tables such as those likely to be encountered in Middle Sand and Glacial Deposit on earthwork design.	All	Medium 3	High 4	12	Investigate thoroughly by targeted groundwater monitoring. Ensure earthwork design will allow for the presence of perched water tables. Continuous monitoring of actual ground conditions.	Medium 2	Low 1	2
11	Unexpected ground profile and soil properties	All	High 4	High 4	16	Undertake supplementary GI as recommended in executive summary of GIR	Medium 3	Medium 2	6
12	Unexpected soft and compressible near surface soil	All	High 4	High 4	16	Further GI required to adopt appropriate ground treatment	Medium 3	Medium 2	6
13	Unexpected hard obstructions in excavations e.g. boulders or rock fragments	All	Medium 3	Medium 3	9	GI identified depth of rock head level within Lodge Lane and Skippool Bridge. Further GI to be carried out within area of Lodge Lane where access for drilling wasn't possible.	Medium 3	Medium 2	6

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
14	Highly variable settlement due to presence of Peat	All	Medium 3	Medium 3	9	Peat is identified on the east side of the Lodge Lane, which should be removed under the proposed embankment. Few additional boreholes are required within Poulton Junction area to investigate the depth and extend of the Peat.	Medium 3	Medium 2	6
15	Frost heave leading to cracking of permanent pavement.	All	High 4	Medium 2	8	Design pavement thicknesses appropriately with respect to the frost index at location	High 4	Low 1	4
16	Failure of base of excavation	All	High 4	High 4	16	Groundwater monitoring is ongoing. Hydrological conceptual site model to be undertaken prior any construction works to ensure that adequate groundwater control is in place during the temporary and permanent construction works	High 4	Low 1	4
17	Damage to services from piling and deep excavations.	All	High 4	High 4	16	Determine services at risk. Assess potential effect on services and divert where necessary.	Medium 2	Low 1	2
18	600mm diameter asbestos water pipe running along the existing A585	All	High 4	Medium 3	12	The assessment of potential effect on the service and appropriate mitigation are required.	Medium 2	Medium2	4

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
19	Encountering and dealing with UXO's.	All	High 4	Medium 3	12	Review historical information. Ensure site staff are briefed and CIRIA C681 Is complied with. Undertake UXO surveys. Ensure CIRIA UXO site guidance is available to all staff (note: CIRIA 3054 under production)	Medium 3	Low 1	3
Risks associated with Earthworks									
20	Settlement of engineered fill (embankments) due to low quality material.	All	High 4	Medium 2	8	Provide adequate on site construction control of fill materials. Stabilise with lime where poor material is identified	High 4	Low 1	4
21	Incorrect earthworks balance resulting in imported material and high tipping costs of unsuitable material.	All	High 4	High 4	16	Maximise reuse of on site material by adopting sufficient lime modification	Medium 2	Medium 2	4
22	Unexpected poor ground conditions at sub grade elevation resulting in increased costs or failure of the pavement	All	Medium 3	Medium 2	6	Consider use of insitu soil improvement techniques. Excavate and replace where Peat is identified. Construction monitoring required. GI has given mixed results but overall it appears sensible to allow for 1m of stabilised layer giving a CBR of 5% where embankment and shallow fill/grade	Medium 2	Low 1	2

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
23	Existing earthworks defects impacting on stability at the Skippool.	All	Medium 3	Medium 3	9	Review earthwork inspection reports during preliminary and detailed design stages and design to accommodate. Remediate if necessary.	Medium 3	Medium 2	6
24	Excessive long-term settlement of founding strata to embankments and differential settlement between the embankment and the structures (presence of soft compressible soils such as Peat).	All	High 4	Medium 3	12	Soft area - Mitigate by ground improvement and/ or allow sufficient time to consolidate. Install instrumentation and monitor ground movement	High 4	Low 1	4
25	Excessive settlement between existing embankments and new or widened embankments at Skippool	All	Medium 3	Medium 3	9	Identify potential for settlement through testing and estimates. Follow requirements of specification and earthworks detail.	Medium 3	Low 1	3
26	Stability of embankments built on soft alluvial deposits	All	High 4	Medium 2	8	Tidal Flat Deposit is varied formation overlying GT and GFD. At some areas, additional CPT's are required to confirm nature of TFD. Appropriate design to ensure stability during construction.	High 4	Low 1	4
27	Surface runoff of water resulting in excessive erosion of earthworks batter slopes in un-cemented sands such as the Middle Sand	All	Medium 3	High 4	12	Identify susceptible deposits e.g. Glaciofluvial Deposit. Prevent surface runoff at top of slope with cut off drains. Ensure that slope drains and topsoiling is undertaken directly after excavation in susceptible soils.	Medium 3	Medium 2	6

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
Risks associated with Foundations									
28	Voids or broken rock in the singleton mudstone resulting in a loss of concrete from bored cast in place piles.	All	Medium 3	Medium 3	9	Ground investigation does not indicate any likely issue. Further boring at Skippool and Lodge Lane bridge to be undertaken where access wasn't possible at this stage.	Medium 2	Medium 2	4
29	Soft bearing conditions (mainly from Alluvium and Peat) requiring need for special foundations for structures/ culvert	All	High 4	High 4	16	Undertake targeted detailed site investigation for soft bearing conditions. Detail design and construction to undertake special care in terms of the soft ground presence on site	Medium 3	Low 1	3
30	Obstructions to construction due to existing foundations.	All	Medium 2	Medium 2	4	Review historical construction records and undertake further investigations to verify dimensions of structure foundations where feasible.	Medium 2	Low 1	2
Hydrogeological Risks									

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
31	Groundwater contamination requiring disposal and remediation.	All	Medium 3	Medium 2	6	Assess the risk from information obtained during the ground investigation. Make provision for disposal of the water in appropriate manner through consultation with Environment Agency/ Drainage Authorities	Medium 2	Low 1	2
32	Loss of groundwater abstraction wells including public/ licensed and private water supply wells if road scheme layout clashes with location of wells or causes substantial detriment.	All	High 4	Medium 2	8	Liaise with Environment Agency to avoid key constraints. Locate wells and ensure alternative supplies are provided if necessary	Medium 2	Low 1	2
33	Groundwater pollution of abstraction wells (including public water supply wells) due to road drainage including soakaways in vicinity of source protection zone.	All	High 4	Medium 2	8	Liaise with Environment Agency to avoid key constraints	Medium 2	Low 1	2

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
34	Groundwater pollution of aquifers caused by temporary dewatering causing polluted water (saline beside R Wyre or historical pollution e.g. landfill or industrial) to flow into aquifer.	All	High 4	High 4	16	8 Selection of scheme option so that any proposed cutting and drainage areas are above the River Wyre water level and would not be expected to be in hydraulic continuity with the River Wyre or to cause a reversal of the natural hydraulic gradient towards the River Wyre.	Low 1	Low 1	2
35	Pollution of aquifers or rivers caused by scheme causing permanent pathway for polluted water (historical pollution e.g. landfill or industrial) to flow into water source (e.g. drains, piles, excavations)	All	High 4	Medium 2	8	Hydrological and hydrogeological appraisal of any locations where deep structures proposed. Identification of potential contamination sources. Liaise with Environment Agency. Conduct site investigation and monitoring if insufficient information.	Low 1	Low 1	1

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
36	Groundwater level reduction in aquifer caused by draining effect in deep cuttings below the water table, especially in sensitive wetlands at existing structures	All	Medium 3	Medium 2	6	Hydrogeological appraisal of any locations where deep structures proposed, or wetlands are identified and identification of bespoke solutions if needed. Obtain baseline water levels. Liaise with Environment Agency. Conduct site investigation and monitoring if insufficient information	High 4	Low 1	4
37	Decrease of groundwater base flow contribution to streams, rivers and other water features caused by barrier to flow or water removal due to the scheme (superficial or bedrock aquifers) (temporary or permanent).	All	Medium 3	Low 1	3	Hydrogeological appraisal of any locations where deep structures proposed in vicinity of watercourses. Obtain baseline water levels and flows. Liaise with Environment Agency. Conduct site investigation and monitoring if insufficient information. Model the potential effect.	Medium 3	Low 1	3

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
38	Groundwater flooding risk increased for local area caused by road scheme structures creating a potential barrier to groundwater flow	All	Medium 3	Medium 2	6	Hydrogeological appraisal of any locations where deep, wide structures proposed. Obtain baseline water levels and identify areas at risk (if any) of groundwater flooding. Inclusion of drainage within carriageway and geotechnical structures. Liaise with Environment Agency. Conduct site investigation and monitoring if insufficient information	Medium 3	Low 1	3
39	Groundwater flooding of scheme structures and cuttings.	All	High 4	Medium 2	8	Hydrogeological appraisal of any proposed deep cuttings or structures. Obtain baseline water levels and identify areas at risk (if any) of groundwater flooding and design drainage infrastructure to control groundwater levels where necessary. Conduct monitoring.	High 4	Low 1	4
40	Encountering old wells and soakaways that are potential contamination pathways.	All	High 4	Low 1	4	Desk study search of historical wells. Walkover investigation if required.	Low 1	Low 1	1

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
41	Attenuation ponds or ditches may not be suitable where potentially high groundwater levels are present resulting in the poor performance of designed drainage system.	All	Medium 3	Medium 2	6	Hydrogeological appraisal of any proposed soakaways and unlined attenuation features. Obtain baseline water levels and identify areas at risk of high groundwater levels. Conduct site investigation and monitoring if insufficient information. Liaise with Environment Agency	Medium 3	Low 1	3
42	High groundwater level ingress into foundation excavation	All	High 4	Medium 2	16	Carry out GI to establish and assess groundwater conditions.	High 4	Low 1	4
43	Excessive inflow of water in excavations during construction (cutting) from high porosity/ permeability deposits such as the Middle Sand Formation and Glacial Till Deposit	All	Medium 2	Medium 3	6	Targeted GI and monitoring to ascertain the level of the water table. Design drainage to accommodate anticipated flow.	Medium 2	Low 1	2
44	Groundwater dewatering (temporary) – discharge water volumes may be large and quality may be problematic (suspended solids, local contamination saline depending on location).	All	High 4	High 4	16	Hydrogeological appraisal of any locations where dewatering is proposed considering local hydrogeology, groundwater quality and sensitive receptors. Liaise with the Environment Agency and obtain appropriate consents. Ensure adequate base line data exists and that the hydrogeological model is realistic.	High 4	Medium 2	8

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
Contaminated Land Risks									
45	Contamination hazard from occurrence of animal burial sites.	All	Medium 2	High 4	8	Contact AHVLA (Animal Health and Veterinary Laboratory) regarding animal burial sites.	Medium 2	Medium 3	6

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			Effect	Likelihood	Degree of Risk		Effect	Likelihood	Degree of Risk
46	Contaminated ground associated with Skippool Service Station, Made Ground and infilled ponds along of the route.		Medium 2	High 4	8	None of the soils analysed exceeded the assessment criteria for human health. There was no asbestos detected within the samples. Based on these results a significant risk to human health is not anticipated. There is currently no available assessment relating to the active Skippool Service Station. The potential for contaminants, including hydrocarbons and vapours migrating onto the scheme cannot therefore be discounted.A watching brief should be undertaken during the works to identify the presence of any potential contamination not detected by the site investigation. If the presence of potential contamination is identified, all works should be stopped and the site should be reassessed by a suitably qualified professional.	Medium 2	Low 1	3

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47	Accumulation of ground gas generated by off-site landfill and on site Made Ground and peat.		High 4	Low 1	4	Based on a review of the limited available data, the potential risk of ground gas is considered to be low. However, the presence of potentially confined spaces onsite may pose an acute risk to construction / maintenance workers. Standard health and safety practices with respect to monitoring and verifying the absence of ground gas and vapour during the excavation works should be adopted in accordance with the recommendations HSE guidance. Excavations and confined spaces should be monitored for gas and depleted oxygen prior to man entry.	Medium 3	Low 1	3
48	Material chemically unsuitable for reuse within the scheme due to elevated leachable metals		Medium 2	Low 1	3	Based on initial soil and soil leachate analysis results, materials within the proposed borrow pit areas are likely to be chemically suitable for reuse on the scheme, subject to further detailed design taking into account the proposed use of the material. Further assessment may be required to verify suitability for reuse.	Medium 2	Low 1	3

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49	Ingestion/ inhalation/ dermal contact with vapours or substances from the removal of tanks and petrol stations.	All	High 4	Medium 3	12	Ingestion/inhalation/dermal contact with vapours or substances from the removal of tanks and petrol stations. We've queried why this is in the risk register previously - recommend removing (Item 50 considers potential risks relating to Skippool service station).	High 4	Low 1	4

8 REFERENCES

[1] Michael Carter & Stephen P. Bentley, *Soil Properties and Their Correlations*, 2016, 2nd Edition

[2] A. C. Meigh, *Cone Penetration Testing*, 1987

[3] The Institution of Civil Engineers, *Penetration Testing*, 1989

[4] ZT. Bieniawski, *The Point Load Test in Geotechnical Practice*, 1975

[5] W. Black & N. W. Lister, *The Strength of Clay Fill Subgrades: Its Prediction in relation to Road Performance*, 1979

[6] CIRIA C504, *Engineering in Glacial Tills*, 1999

[7] A. W. Parsons, *General Report: Construction and Placement of Clay Fills In: Proceedings of the Conference on Clay Fills,* ICE, 1978

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Appendix A GI Location Plan

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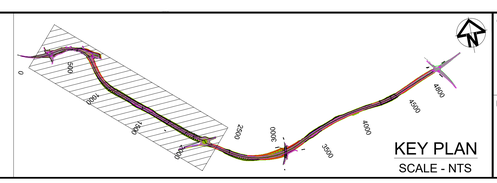
BH References	Report Title	Date	HAGDMS Reference	Comments
SD34SE64/BGS to SD34SE65/BGS	EnterpriseMouchel - A585 Norcross to Skippool Cycleway Ground Investigation Report	2011	25881	Limited Lab Data
BH11/3936 to BH15/3936	Norwest Holst Soil Engineering Ltd. Site Investigation Report - A585 Norcross to M55 Link	1990	3936	Contains Lab Data
TP101/Rec to TP106/Rec CP101/Rec to CP103/Rec	REC Geo-Environmental Site Investigation - Mains Lane, Poulton-Le-Fylde (Keyworkers Homes)	2015	---	Contains Lab Data
BH5/2/28880 to BH5/3/28880	Amey - Geotechnical Design Report - A585 Road Crossing, Mains Lane, Poulton Le Fylde	2002	28880	Contains Lab Data
BH649/1/SB	LCC - Skippool Bridge A585 Kirkham Fleetwood Road General Arragenemnt Drawing	1973	---	No Lab Data
HDTP201/09/24203 to HDTP205/09/24203 WS101/09/24203 to WS106/09/24203	AmeyMouchel - A585 Singleton to Windy Harbour Widening Ground Investigation Report	2010	24203	Contains Lab Data
SD33NE10/BGS to SD33NE14/BGS	BGS	1974	---	No Lab Data
TP302/13/27803 WS301/13/27803 to WS304/13/27803	EM - A585 Windy Harbour Junction Improvements Ground Investigation Report	2014	27803	Contains Lab Data
WS1/20648 to WS2/20648	AmeyMouchel - A585 Windy Harbour Junction Stage 1 & 2 Geotechnical Risk Assessment	2005	20648	Contains Lab Data

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

Notes

LEGEND

CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		



KEY PLAN
SCALE - NTS

Client: highways england

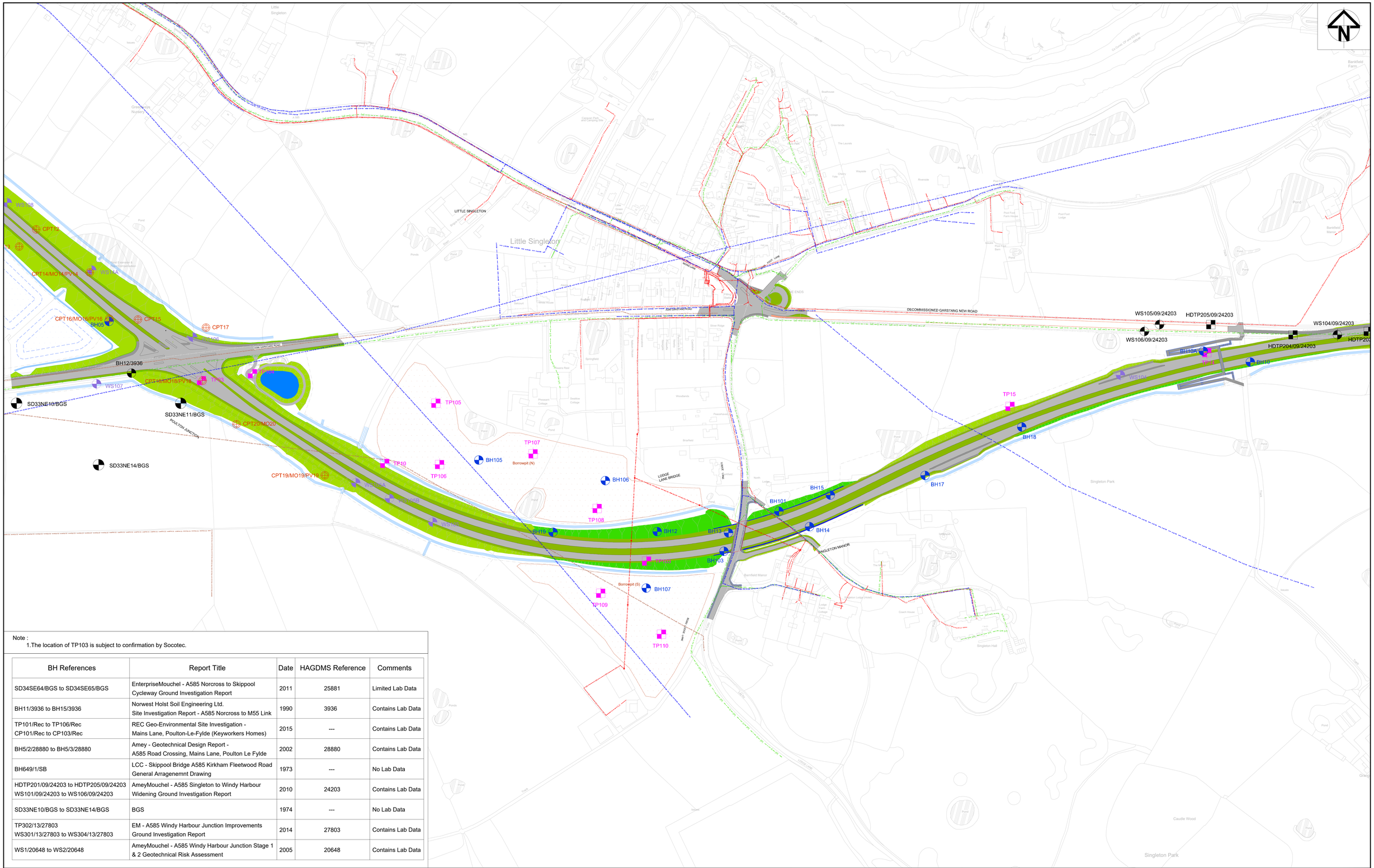
Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: POST GROUND INVESTIGATION LOCATION PLAN SHEET 1 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3001
(HE PIN | Originator | Volume | Location | Type | Role | Number)



Note :
1.The location of TP103 is subject to confirmation by Socotec.

BH References	Report Title	Date	HAGDMS Reference	Comments
SD34SE64/BGS to SD34SE65/BGS	EnterpriseMouchel - A585 Norcross to Skippool Cycleway Ground Investigation Report	2011	25881	Limited Lab Data
BH11/3936 to BH15/3936	Norwest Holst Soil Engineering Ltd. Site Investigation Report - A585 Norcross to M55 Link	1990	3936	Contains Lab Data
TP101/Rec to TP106/Rec CP101/Rec to CP103/Rec	REC Geo-Environmental Site Investigation - Mains Lane, Poulton-Le-Fylde (Keyworkers Homes)	2015	---	Contains Lab Data
BH5/2/28880 to BH5/3/28880	Amey - Geotechnical Design Report - A585 Road Crossing, Mains Lane, Poulton Le Fylde	2002	28880	Contains Lab Data
BH649/1/SB	LCC - Skippool Bridge A585 Kirkham Fleetwood Road General Arragenemnt Drawing	1973	---	No Lab Data
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Notes

LEGEND

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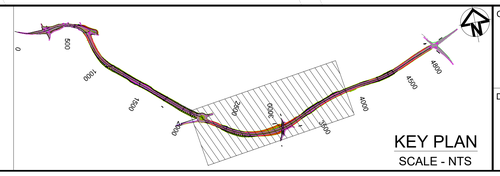
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		



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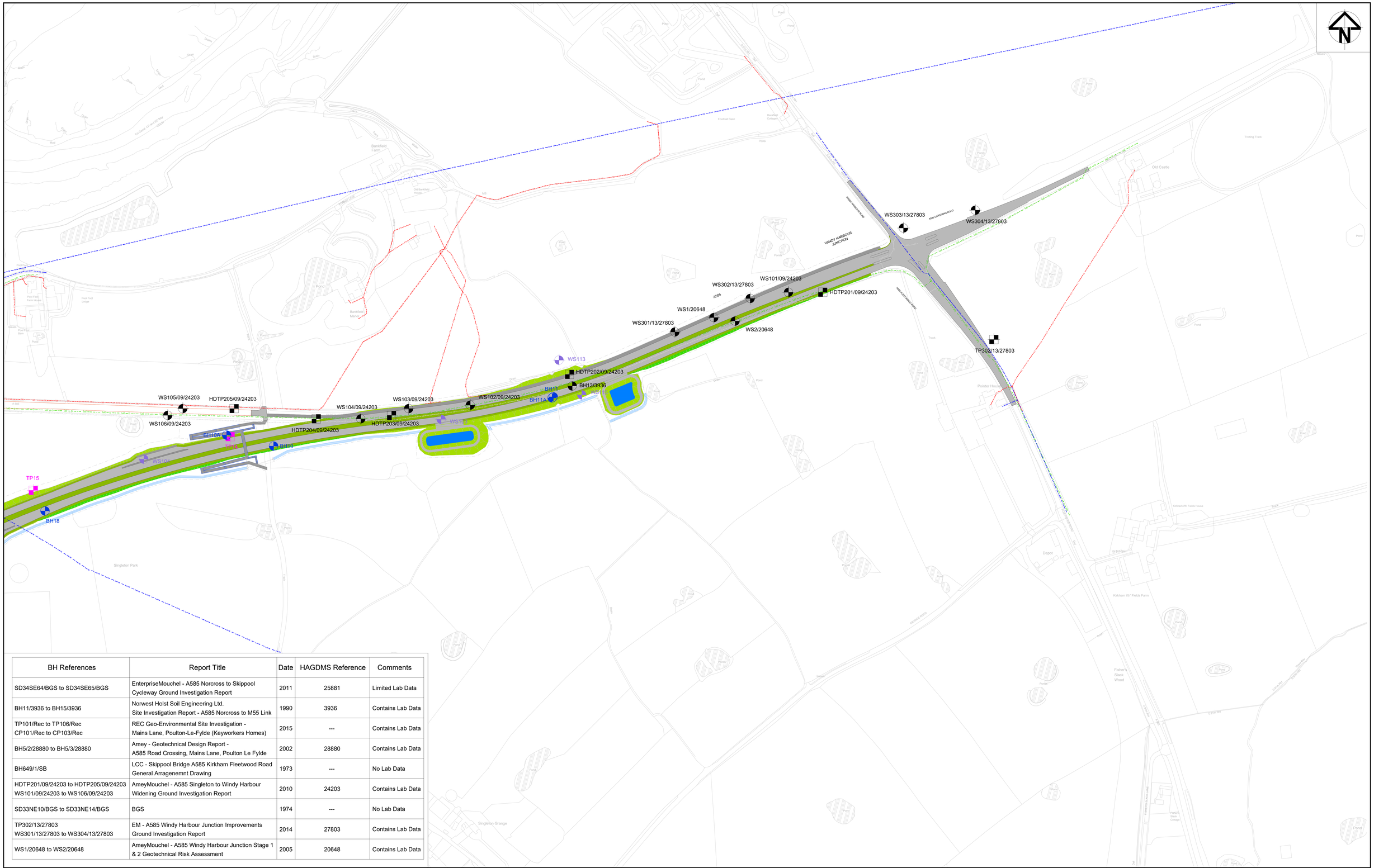
Drawing Title: POST GROUND INVESTIGATION LOCATION PLAN SHEET 2 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3001
(HE PIN | Originator | Volume | Location | Type | Role | Number)



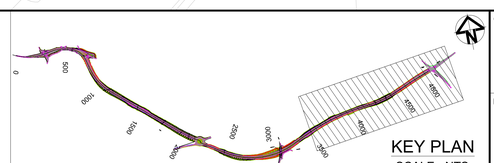
BH References	Report Title	Date	HAGDMS Reference	Comments
SD34SE64/BGS to SD34SE65/BGS	EnterpriseMouchel - A585 Norcross to Skippool Cycleway Ground Investigation Report	2011	25881	Limited Lab Data
BH11/3936 to BH15/3936	Norwest Holst Soil Engineering Ltd. Site Investigation Report - A585 Norcross to M55 Link	1990	3936	Contains Lab Data
TP101/Rec to TP106/Rec CP101/Rec to CP103/Rec	REC Geo-Environmental Site Investigation - Mains Lane, Poulton-Le-Fylde (Keyworkers Homes)	2015	---	Contains Lab Data
BH5/2/28880 to BH5/3/28880	Amey - Geotechnical Design Report - A585 Road Crossing, Mains Lane, Poulton Le Fylde	2002	28880	Contains Lab Data
BH649/1/SB	LCC - Skippool Bridge A585 Kirkham Fleetwood Road General Arragenemnt Drawing	1973	---	No Lab Data
HDTP201/09/24203 to HDTP205/09/24203 WS101/09/24203 to WS106/09/24203	AmeyMouchel - A585 Singleton to Windy Harbour Widening Ground Investigation Report	2010	24203	Contains Lab Data
SD33NE10/BGS to SD33NE14/BGS	BGS	1974	---	No Lab Data
TP302/13/27803 WS301/13/27803 to WS304/13/27803	EM - A585 Windy Harbour Junction Improvements Ground Investigation Report	2014	27803	Contains Lab Data
WS1/20648 to WS2/20648	AmeyMouchel - A585 Windy Harbour Junction Stage 1 & 2 Geotechnical Risk Assessment	2005	20648	Contains Lab Data

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

Notes

LEGEND

CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		



KEY PLAN
SCALE - NTS

Client: highways england

Designer: ARCADIS
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: POST GROUND INVESTIGATION LOCATION PLAN SHEET 3 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3001
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Appendix B Geological Cross-Sections

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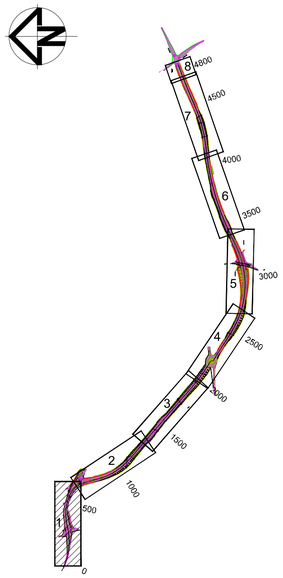
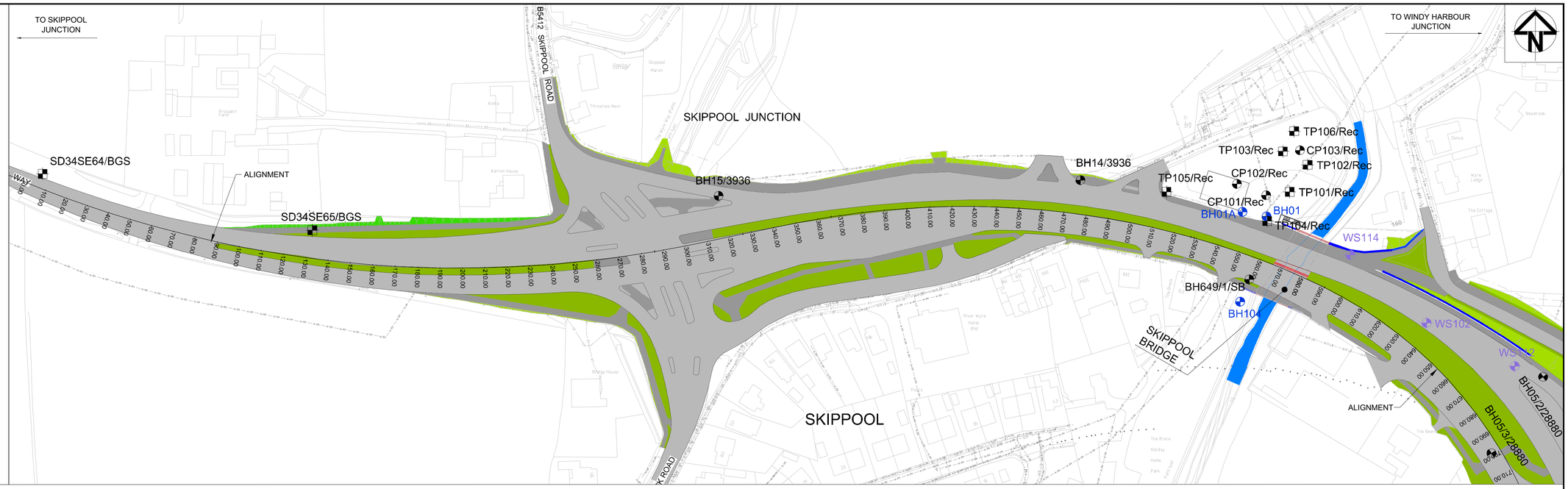


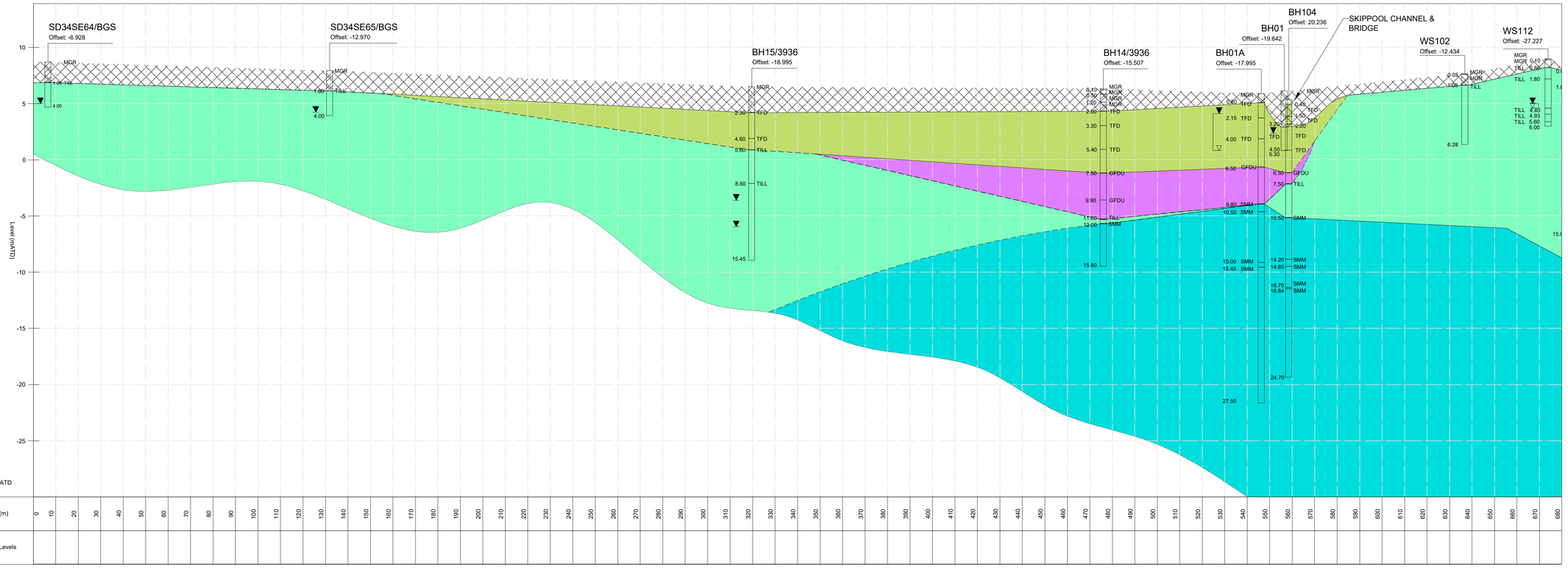
KEY PLAN
SCALE 1:25000



PLAN
SCALE 1:1000

0 10 20 40 60 80 100m
Scale 1 : 1000

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER



GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

0 10 20 40 60 80 100m
Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

NOTES:
ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

Client: highways england
Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME
Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 1 OF 8

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3004
(HE PIN | Originator | Volume | Location | Type | Role | Number)

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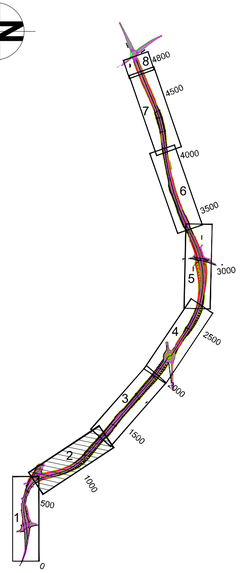

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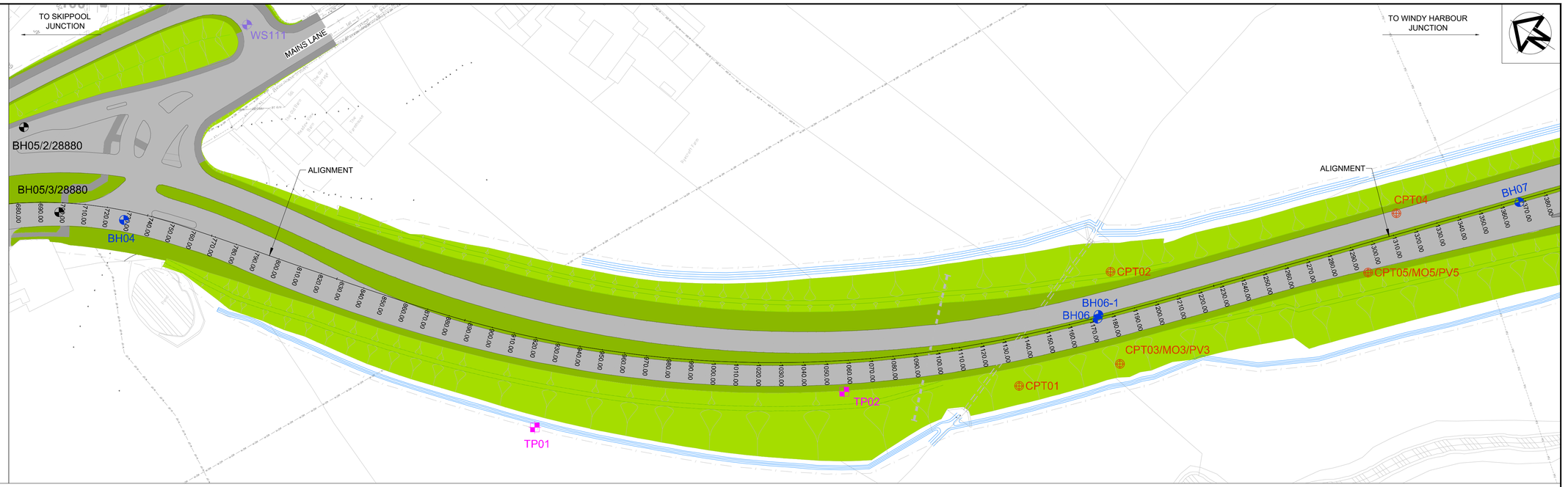
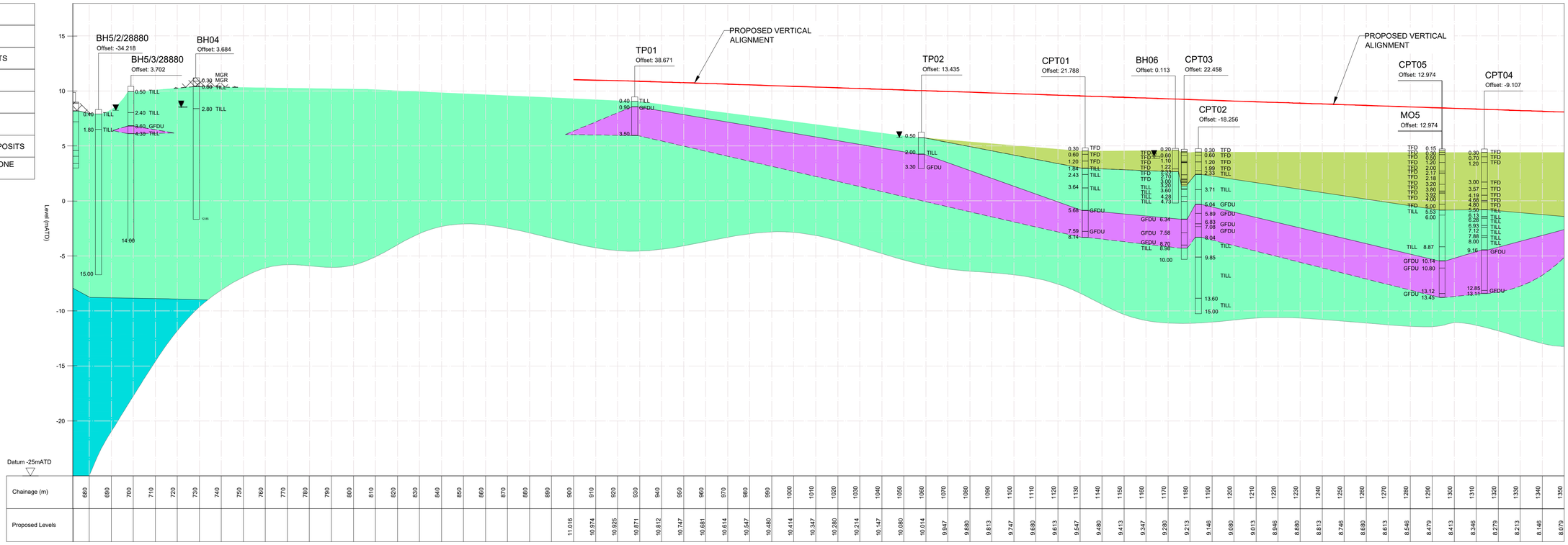


PLAN
SCALE 1:1000

0 10 20 40 60 80 100m
Scale 1 : 1000

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER



GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

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Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

NOTES:
ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 2 OF 8

Status: S3		Revision: P02	
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3005
(HE PIN | Originator | Volume | Location | Type | Role | Number)

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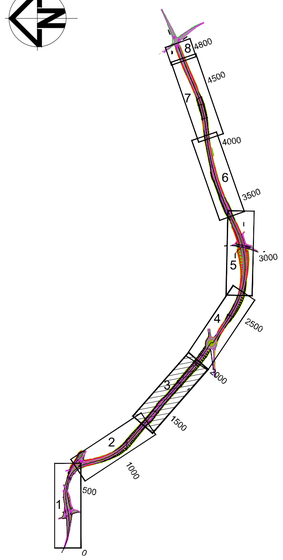

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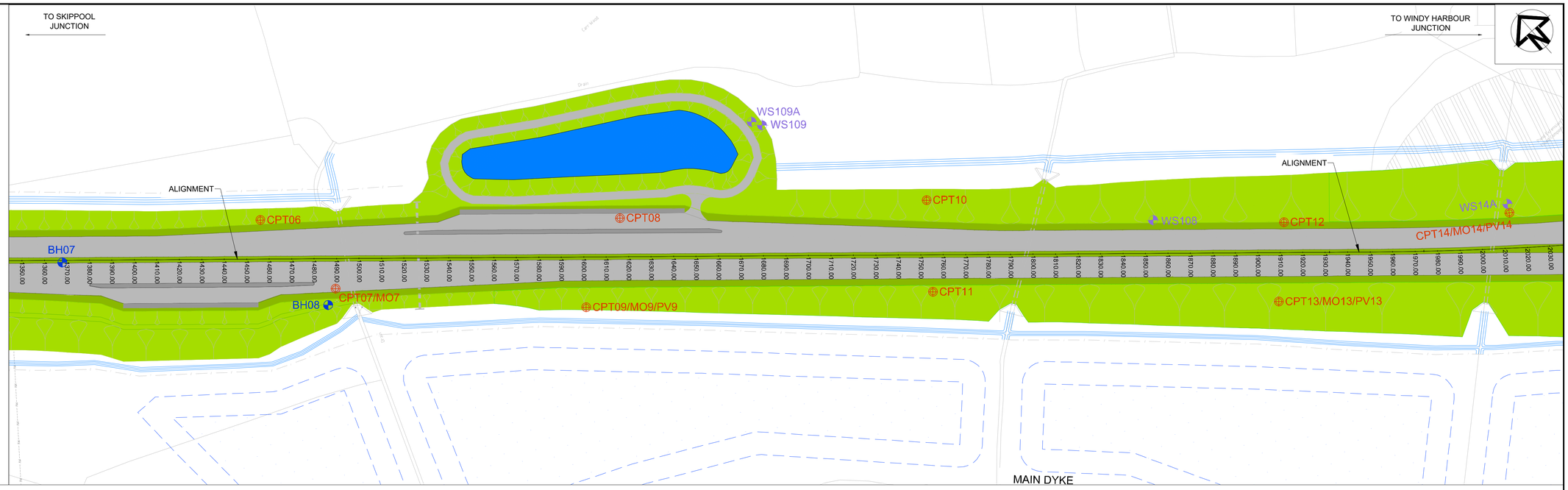

PLAN
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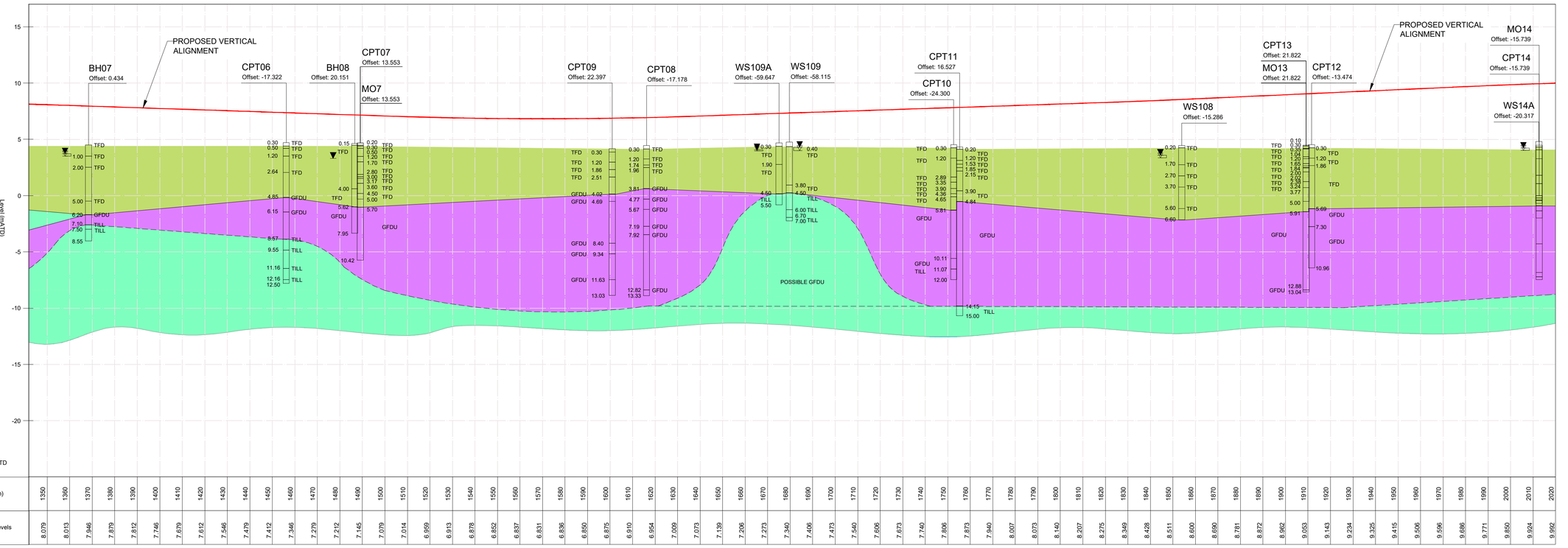
Scale 1 : 1000



GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

0 10 20 40 60 80 100m
Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

GEOLOGICAL CODE	
MGR	MADE GROUND
TFD	TIDAL FLAT DEPOSITS
PT	PEAT
ALV	ALLUVIUM
TILL	GLACIAL TILL
GFDU	GLACIOFLUVIAL DEPOSITS
SMM	SINGLETON MUDSTONE MEMBER

NOTES:

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

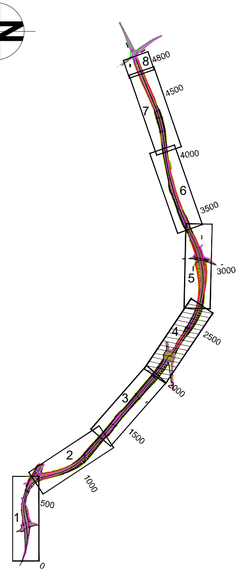
Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 3 OF 8

Status		Revision
S3		P02
Scale	AS SHOWN	Date 27/07/2018
Drawn By	D. MORE	
Checked By	K. KANIA/J. BAPLE	
Approved By	N. HENDERSON	
PINS No.	TR010035	Original Size A1

Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number
HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3006

Xref K:\GEOTECHNICAL\100 XXXXX-XX A585 Windy Harbour to Skippool\D-Project\Working \D02-Drawings\Plan & Profile\07.05.18\xref\HE548643-ARC-GEN-A585-M2-D-2001-Arcadis HorizA1 Title Block.dwg



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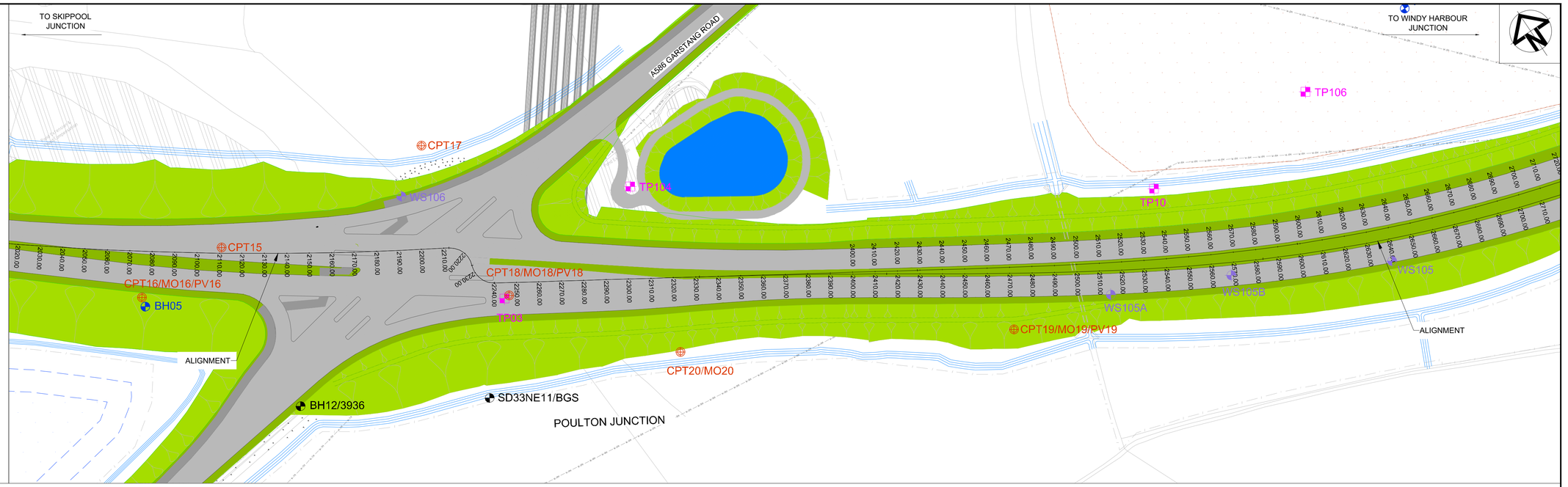
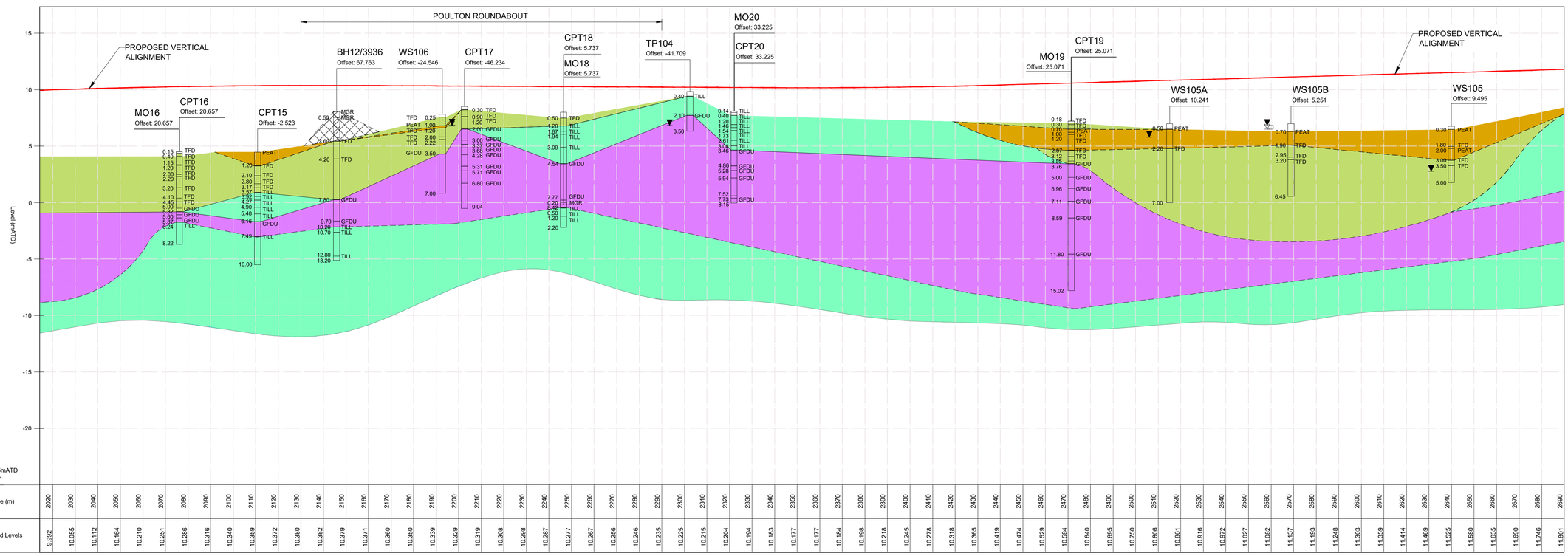


PLAN
SCALE 1:1000

Scale 1 : 1000

GEOLOGICAL CODE	
MGR	MADE GROUND
TFD	TIDAL FLAT DEPOSITS
PT	PEAT
ALV	ALLUVIUM
TILL	GLACIAL TILL
GFDU	GLACIOFLUVIAL DEPOSITS
SMM	SINGLETON MUDSTONE MEMBER



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Proposed Levels	9.992	10.055	10.112	10.164	10.210	10.251	10.286	10.316	10.340	10.359	10.372	10.380	10.382	10.379	10.371	10.360	10.350	10.339	10.329	10.319	10.308	10.298	10.287	10.277	10.267	10.256	10.246	10.235	10.225	10.215	10.204	10.194	10.183	10.177	10.177	10.184	10.198	10.218	10.245	10.278	10.318	10.365	10.419	10.474	10.529	10.584	10.640	10.695	10.750	10.806	10.861	10.916	10.972	11.027	11.082	11.137	11.193	11.248	11.303	11.359	11.414	11.469	11.525	11.580	11.635	11.690	11.746	11.801

GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

Scale 1 : 1000

SCALE 1 : 200

NOTES:

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets

Registered office: Arcadis House, 34 York Way, London, N1 9AB

Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

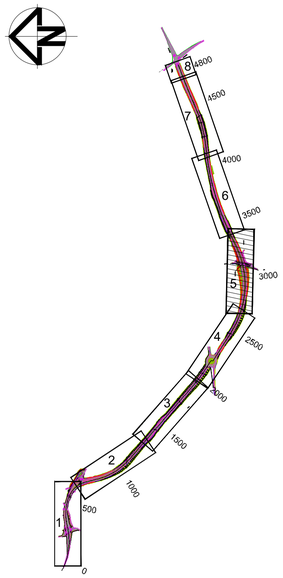
Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 4 OF 8

Status		Revision
S3		P02
Scale	AS SHOWN	Date 27/07/2018
Drawn By	D. MORE	
Checked By	K. KANIA/J. BAPLE	
Approved By	N. HENDERSON	
PINS No.	TR010035	Original Size A1

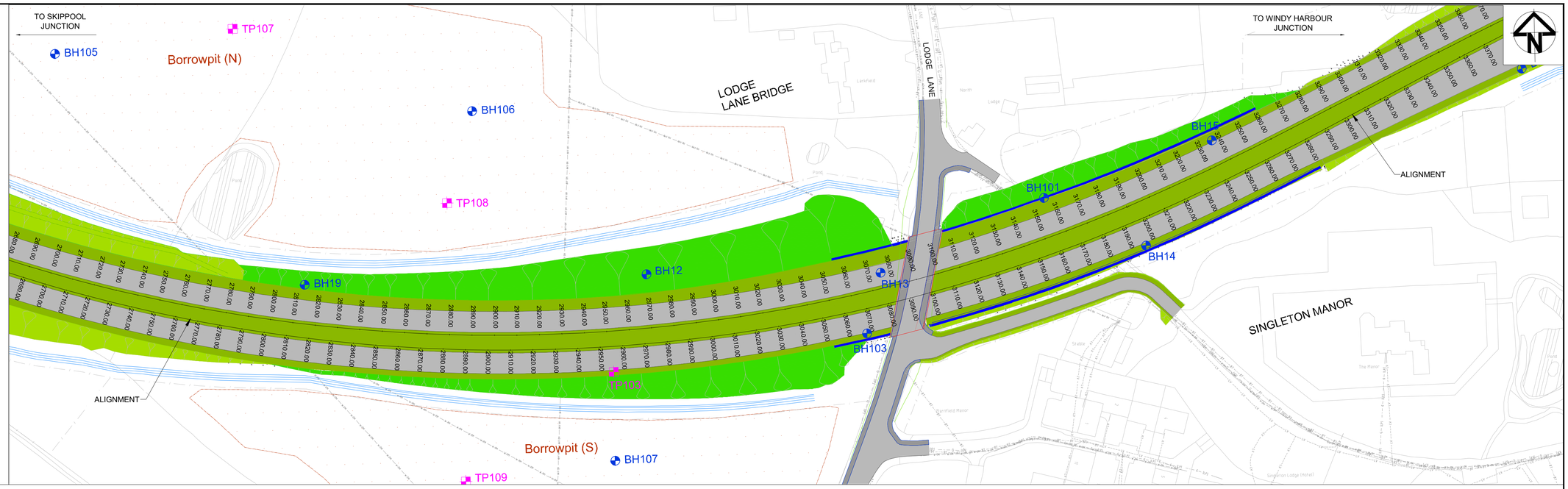
Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number

HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3007

Xref K:\GEOTECHNICAL\100 XXXXX-XX A585 Windy Harbour to Skipool\D-Project\Working \D02-Drawings\Plan & Profile\07.05.18\xref\HE548643-ARC-GEN-A585-M2-D-2001-Arcadis HorizA1 Title Block.dwg



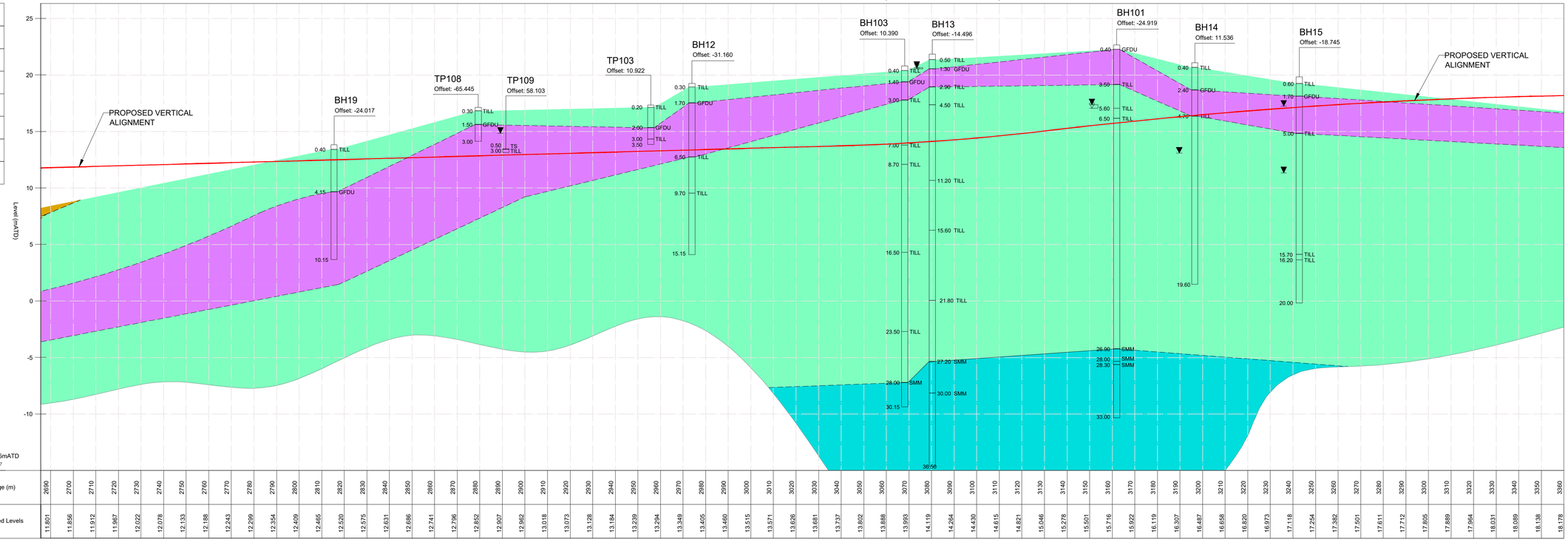
KEY PLAN
SCALE 1:25000



PLAN
SCALE 1:1000

0 10 20 40 60 80 100m
Scale 1 : 1000

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER



GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

0 10 20 40 60 80 100m
Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

NOTES:
ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KKJB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KKJB	NH

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 5 OF 8

Status		Revision
S3		P02
Scale	AS SHOWN	Date 27/07/2018
Drawn By	D. MORE	
Checked By	K. KANIA/J. BAPLE	
Approved By	N. HENDERSON	
PINS No.	TR010035	Original Size A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3008
HE PIN | Originator | Volume | Location | Type | Role | Number

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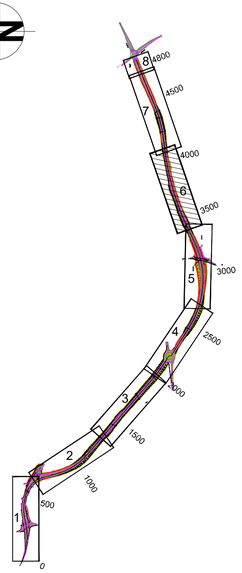
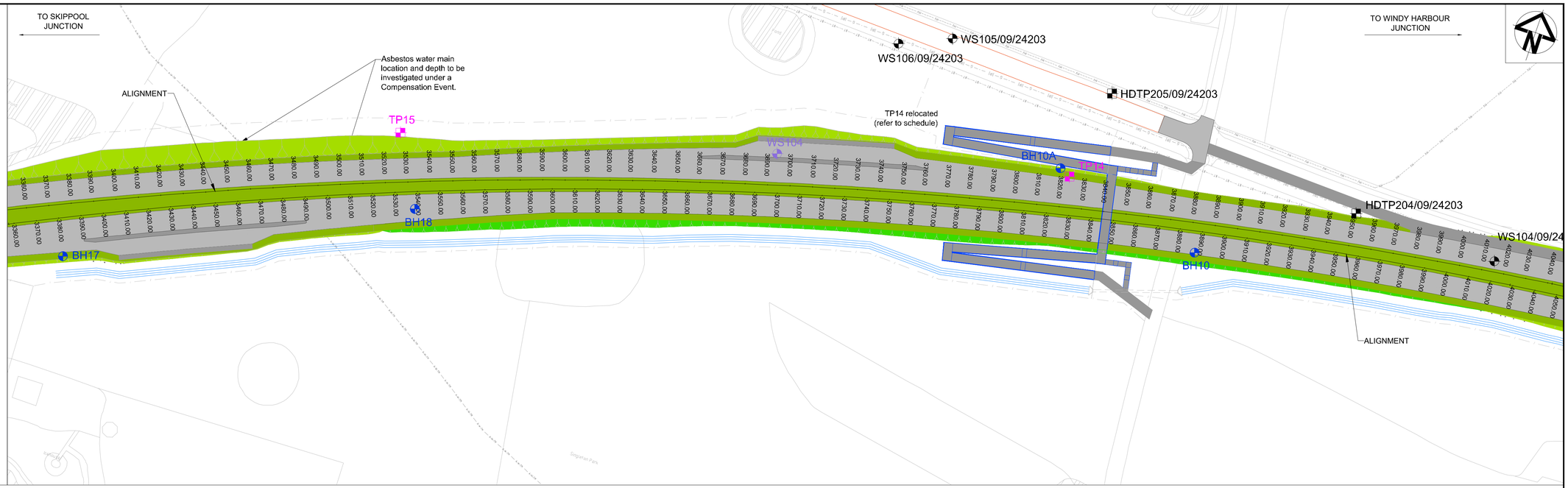


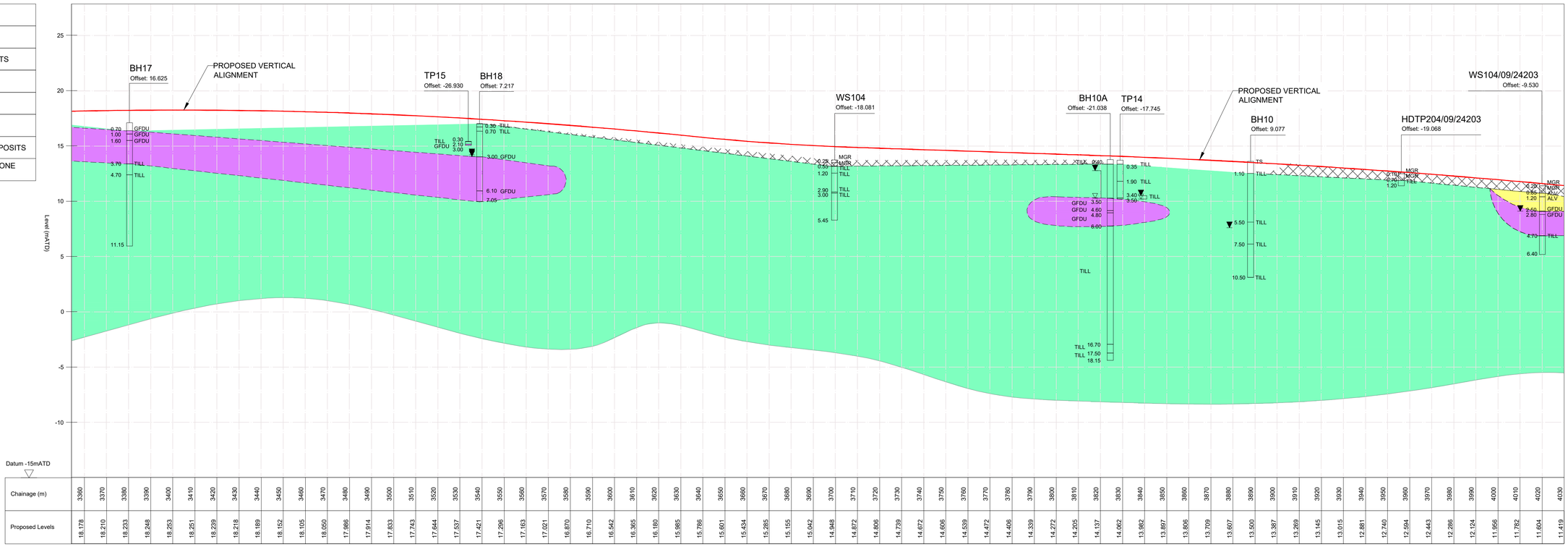
KEY PLAN
SCALE 1:25000



PLAN
SCALE 1:1000

0 10 20 40 60 80 100m
Scale 1 : 1000

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER



GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

0 10 20 40 60 80 100m
Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

NOTES:

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Client: highways england

Designer: ARCADIS (Design & Consultancy for natural and built assets)
Registered office: Arcadis House, 34 York Way, London N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey GU2 7AR

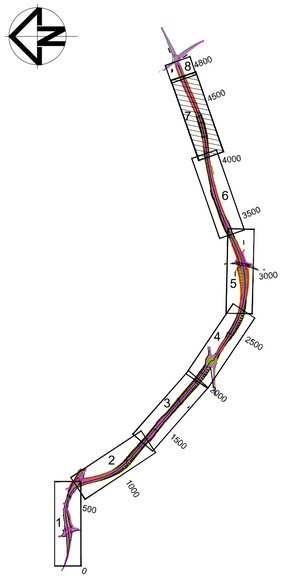
Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 6 OF 8

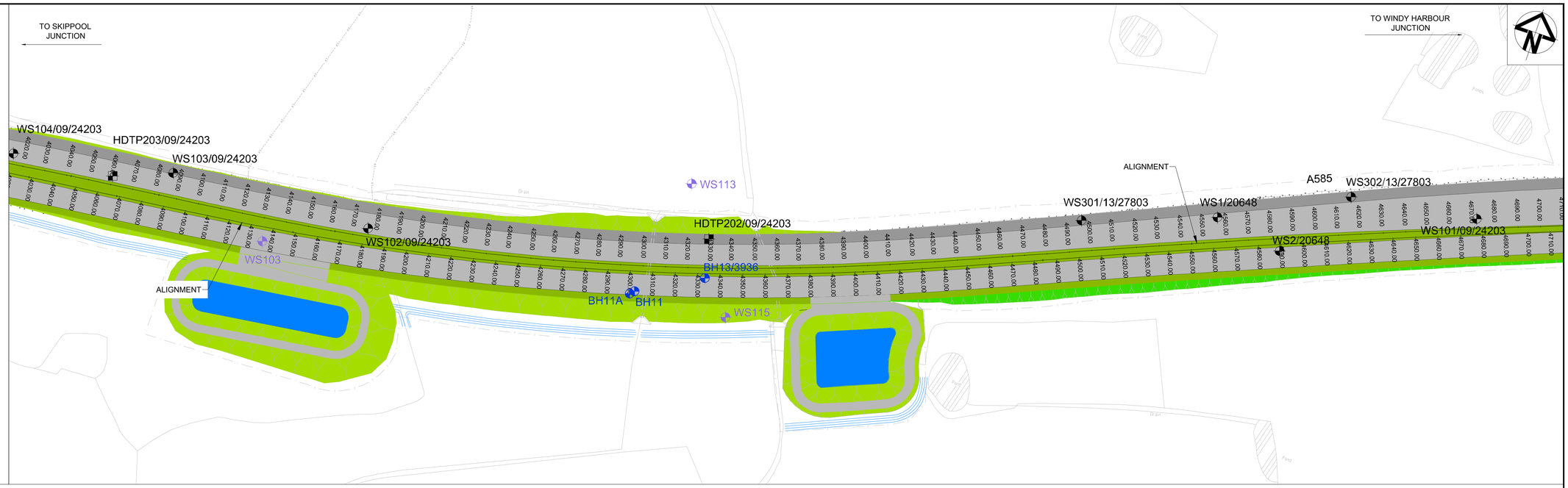
Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number
HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3009

Xref K:\GEOTECHNICAL\100 XXXXX-XX A585 Windy Harbour to Skippool\D-Project\Working \D02-Drawings\Plan & Profile\07.05.18\xref\HE548643-ARC-GEN-A585-M2-D-2001-Arcadis HorizA1 Title Block.dwg

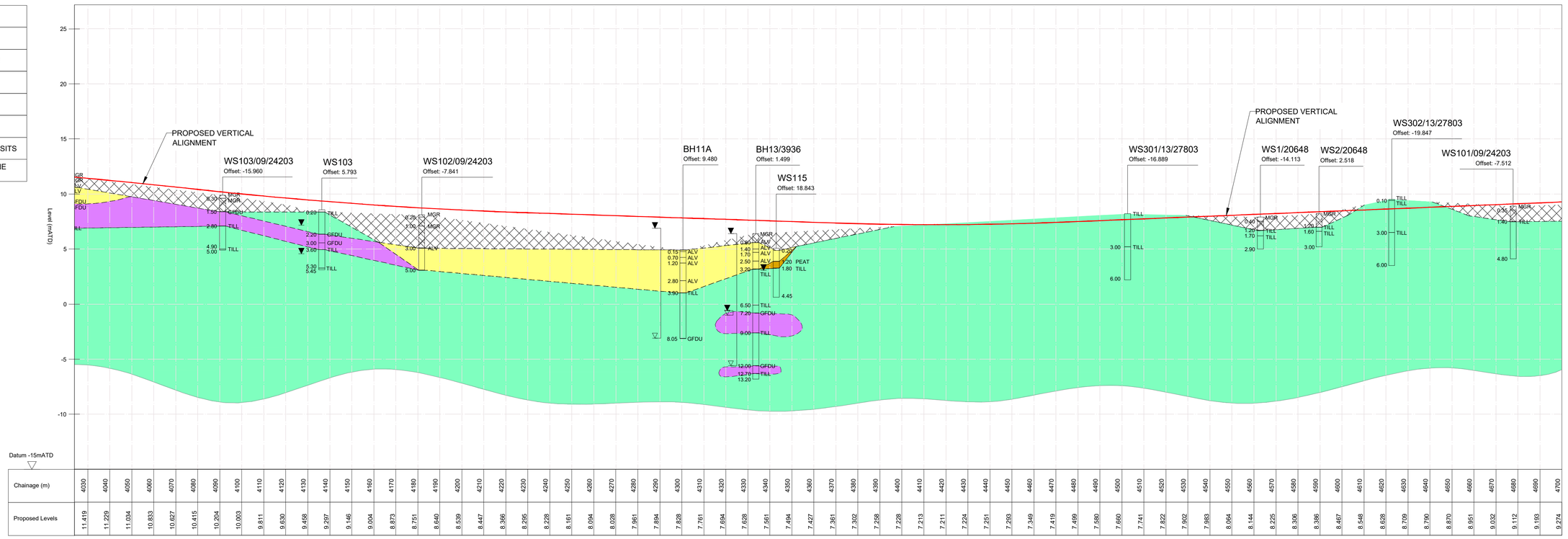


KEY PLAN
SCALE 1:25000



PLAN
SCALE 1:1000

Scale 1 : 1000



Chainage (m)	4030	4040	4050	4060	4070	4080	4090	4100	4110	4120	4130	4140	4150	4160	4170	4180	4190	4200	4210	4220	4230	4240	4250	4260	4270	4280	4290	4300	4310	4320	4330	4340	4350	4360	4370	4380	4390	4400	4410	4420	4430	4440	4450	4460	4470	4480	4490	4500	4510	4520	4530	4540	4550	4560	4570	4580	4590	4600	4610	4620	4630	4640	4650	4660	4670	4680	4690	4700
Proposed Levels	11.419	11.229	11.034	10.833	10.627	10.415	10.204	10.003	9.811	9.630	9.458	9.297	9.146	9.004	8.873	8.751	8.640	8.539	8.447	8.366	8.295	8.228	8.161	8.094	8.028	7.961	7.894	7.828	7.761	7.694	7.628	7.561	7.494	7.427	7.361	7.302	7.258	7.228	7.213	7.211	7.224	7.251	7.293	7.349	7.419	7.499	7.580	7.660	7.741	7.822	7.902	7.983	8.064	8.144	8.225	8.306	8.386	8.467	8.548	8.628	8.709	8.790	8.870	8.951	9.032	9.112	9.193	9.274

GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

Scale 1 : 1000

SCALE 1 : 200

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

NOTES:

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets

Registered office: Arcadis House, 34 York Way, London N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey GU2 7AR

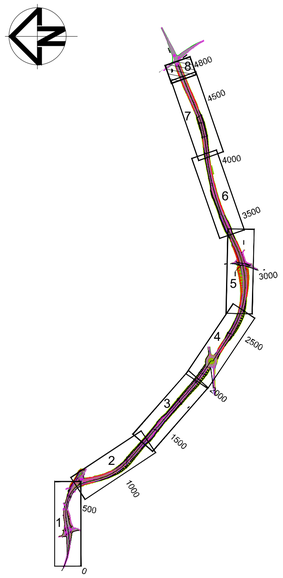
Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 7 OF 8

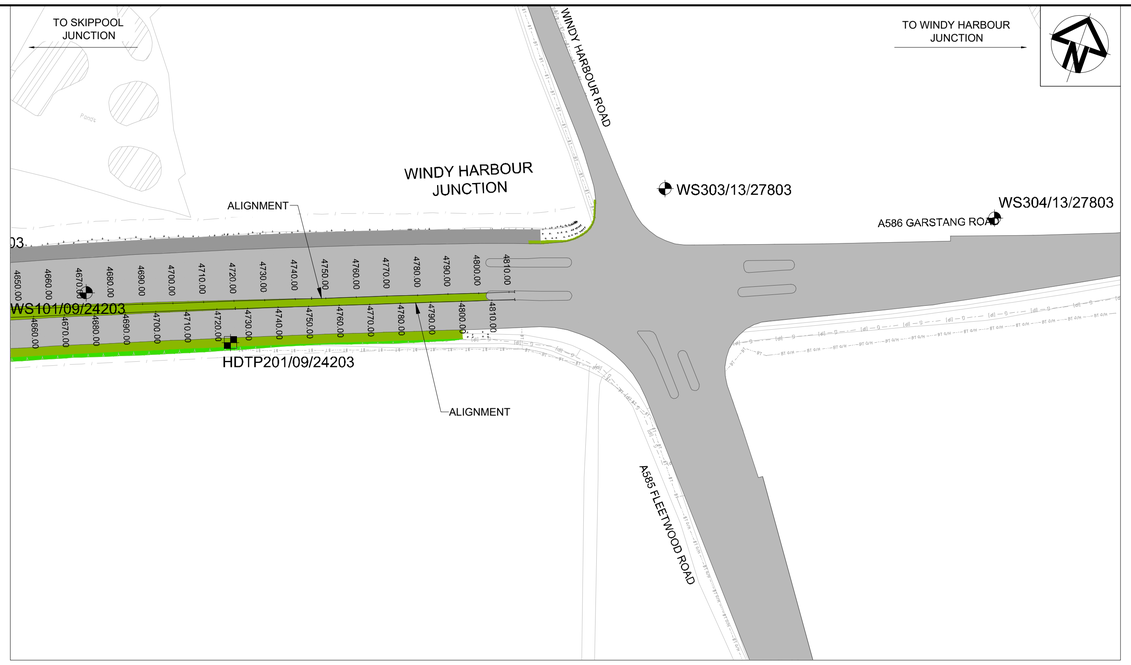
Status: S3		Revision: P02	
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number
HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3010

Xref K:\GEOTECHNICAL\100 XXXXX-XX A585 Windy Harbour to Skipool\D-Project\Working \D02-Drawings\Plan & Profile\07.05.18\xref\HE548643-ARC-GEN-A585-M2-D-2001-Arcadis HorizA1 Title Block.dwg



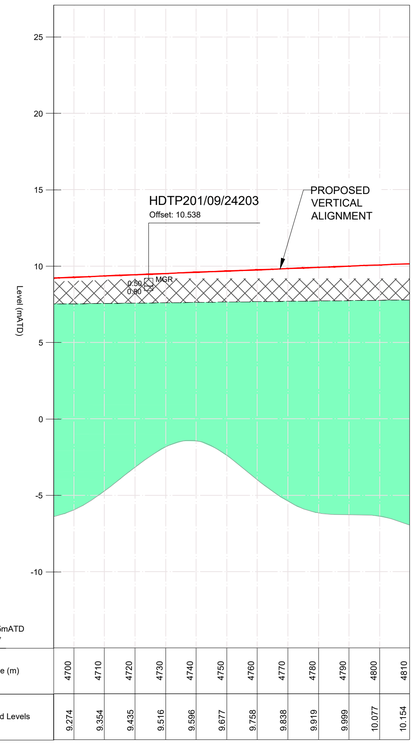
KEY PLAN
SCALE 1:25000



PLAN
SCALE 1:1000

0 10 20 40 60 80 100m
Scale 1 : 1000

GEOLOGICAL CODE		
	MGR	MADE GROUND
	TFD	TIDAL FLAT DEPOSITS
	PT	PEAT
	ALV	ALLUVIUM
	TILL	GLACIAL TILL
	GFDU	GLACIOFLUVIAL DEPOSITS
	SMM	SINGLETON MUDSTONE MEMBER



Chainage (m)	4700	4710	4720	4730	4740	4750	4760	4770	4780	4790	4800	4810
Proposed Levels	9.274	9.354	9.435	9.516	9.596	9.677	9.758	9.838	9.919	9.999	10.077	10.154

GEOLOGICAL CROSS-SECTION
HORZ 1:1000 & VERT 1:200

0 10 20 40 60 80 100m
Scale 1 : 1000

0 5 10 15 20m
SCALE 1 : 200

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

NOTES:
ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND			
CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

Client: highways england

Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

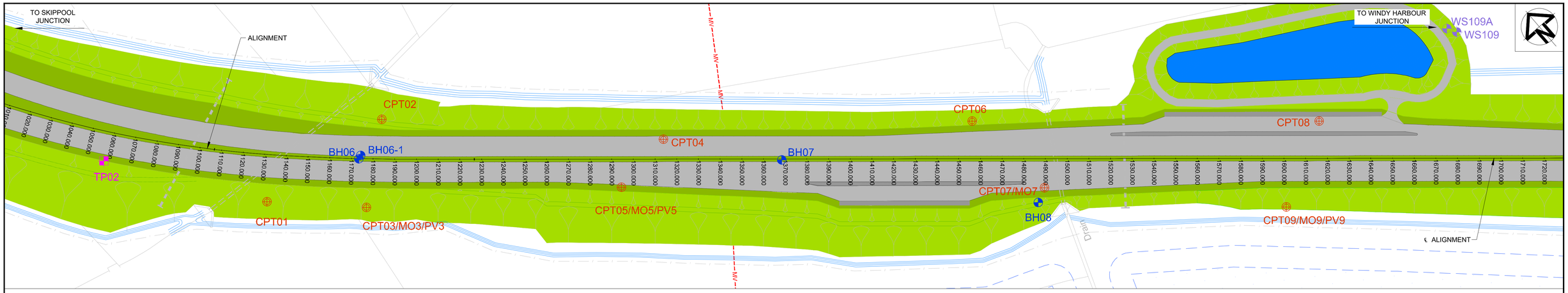
Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTIONS SHEET 8 OF 8

Status: S3		Revision: P02	
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J. BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3011
(HE PIN | Originator | Volume | Location | Type | Role | Number)

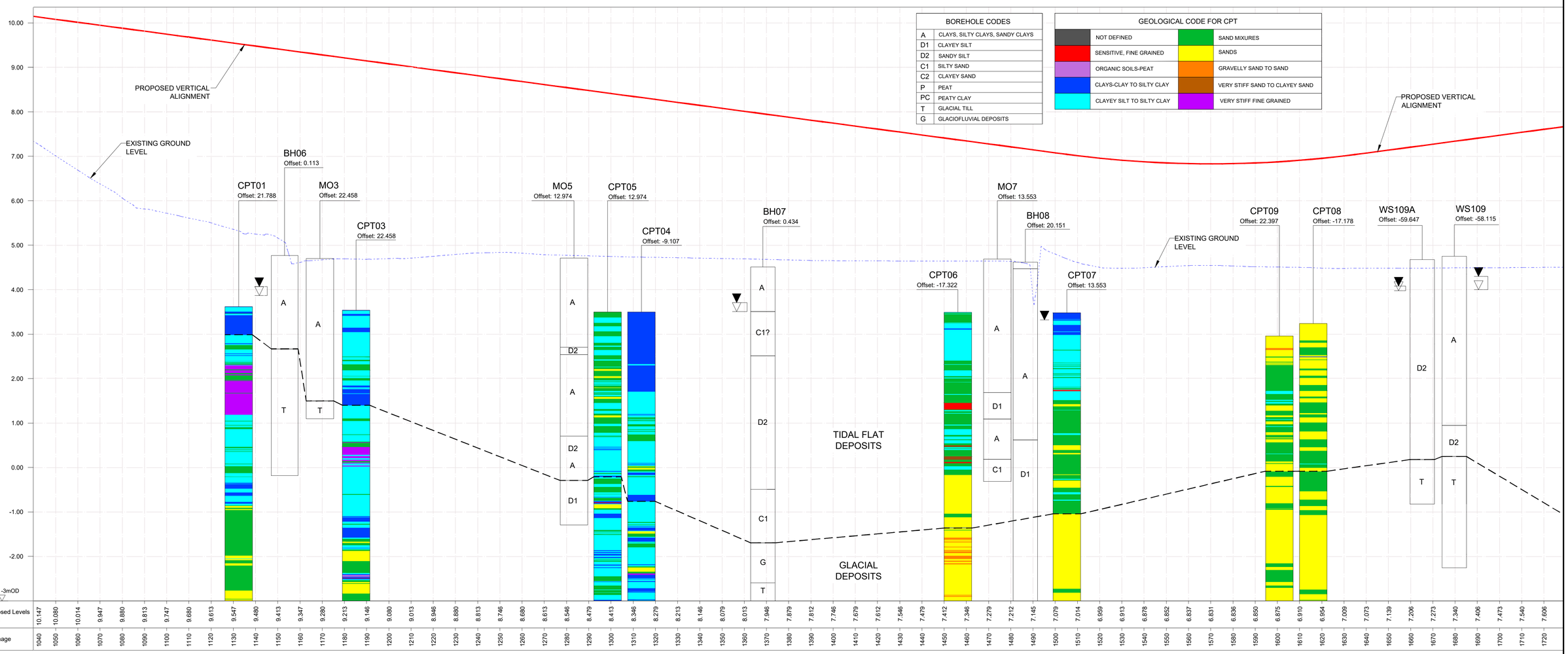
Xref K:\GEOTECHNICAL\100 XXXXX-XX A585 Windy Harbour to Skippool\D-Project\Working \D02-Drawings\Plan & Profile\07.05.18\xref\HE548643-ARC-GEN-A585-M2-D-2001-Arcadis HorizA1 Title Block.dwg



PLAN
SCALE 1:900

BOREHOLE CODES	
A	CLAYS, SILTY CLAYS, SANDY CLAYS
D1	CLAYEY SILT
D2	SANDY SILT
C1	SILTY SAND
C2	CLAYEY SAND
P	PEAT
PC	PEATY CLAY
T	GLACIAL TILL
G	GLACIOFLUVIAL DEPOSITS

GEOLOGICAL CODE FOR CPT			
	NOT DEFINED		SAND MIXURES
	SENSITIVE, FINE GRAINED		SANDS
	ORGANIC SOILS-PEAT		GRAVELLY SAND TO SAND
	CLAYS-CLAY TO SILTY CLAY		VERY STIFF SAND TO CLAYEY SAND
	CLAYEY SILT TO SILTY CLAY		VERY STIFF FINE GRAINED



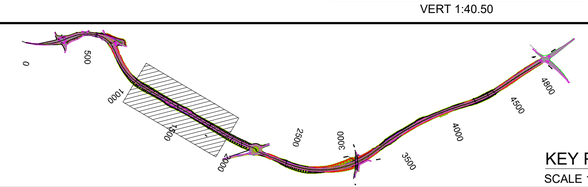
GEOLOGICAL CROSS-SECTION
VERT 1:40.50

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK	NH
P01	S1	28/06/2018	FIRST ISSUE	DM	KK	NH

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND

CPT	CONE PENETRATION TEST
BH05	BOREHOLES
TP10	TRIAL PITS
WS108	WINDOW SAMPLE



KEY PLAN
SCALE 1:25000

Client: highways england

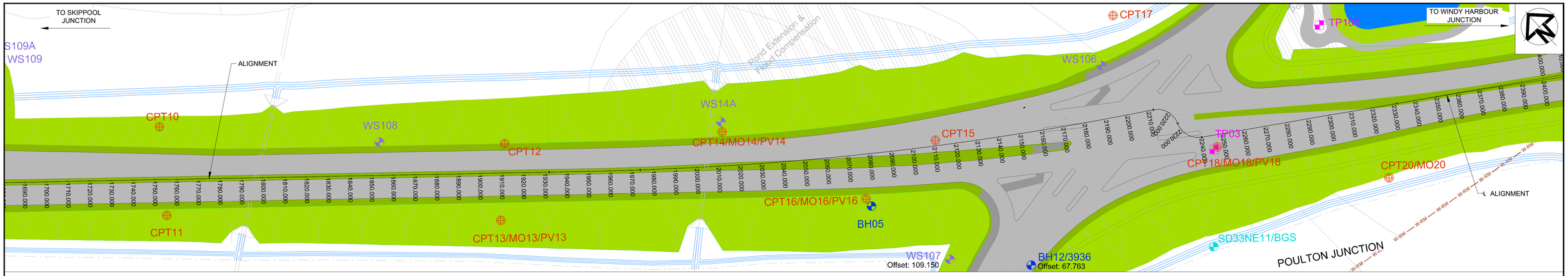
Designer: ARCADIS
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

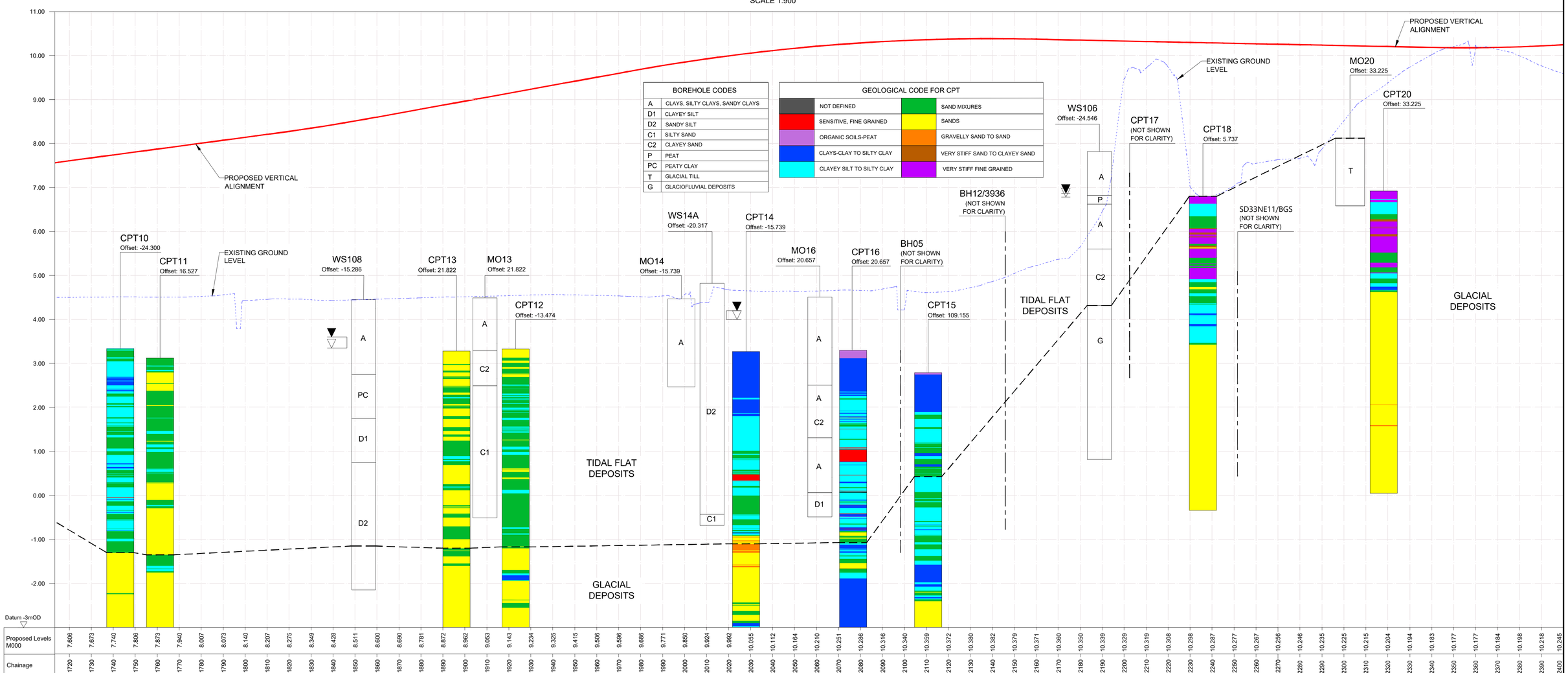
Drawing Title: GEOLOGICAL CROSS SECTION ALONG THE MAIN DYKE SHEET 1 OF 2

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3012
(HE PIN | Originator | Volume | Location | Type | Role | Number)



PLAN
SCALE 1:900



BOREHOLE CODES	
A	CLAYS, SILTY CLAYS, SANDY CLAYS
D1	CLAYEY SILT
D2	SANDY SILT
C1	SILTY SAND
C2	CLAYEY SAND
P	PEAT
PC	PEATY CLAY
T	GLACIAL TILL
G	GLACIOFLUVIAL DEPOSITS

GEOLOGICAL CODE FOR CPT			
	NOT DEFINED		SAND MIXURES
	SENSITIVE, FINE GRAINED		SANDS
	ORGANIC SOILS-PEAT		GRAVELLY SAND TO SAND
	CLAYS-CLAY TO SILTY CLAY		VERY STIFF SAND TO CLAYEY SAND
	CLAYEY SILT TO SILTY CLAY		VERY STIFF FINE GRAINED

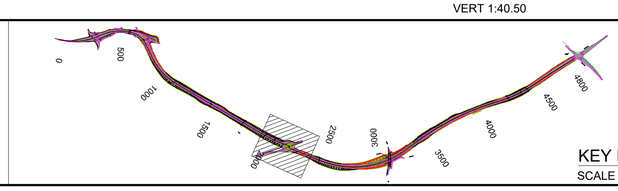
GEOLOGICAL CROSS-SECTION
VERT 1:40.50

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK	NH
P01	S1	28/06/2018	FIRST ISSUE	DM	KK	NH

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

LEGEND

CPT	CONE PENETRATION TEST
BH05	BOREHOLES
TP10	TRIAL PITS
WS108	WINDOW SAMPLE



KEY PLAN
SCALE 1:25000

Client: highways england

Designer: ARCADIS
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: GEOLOGICAL CROSS SECTION ALONG THE MAIN DYKE SHEET 2 OF 2

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3013
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Appendix C Geological Maps and Aquifers

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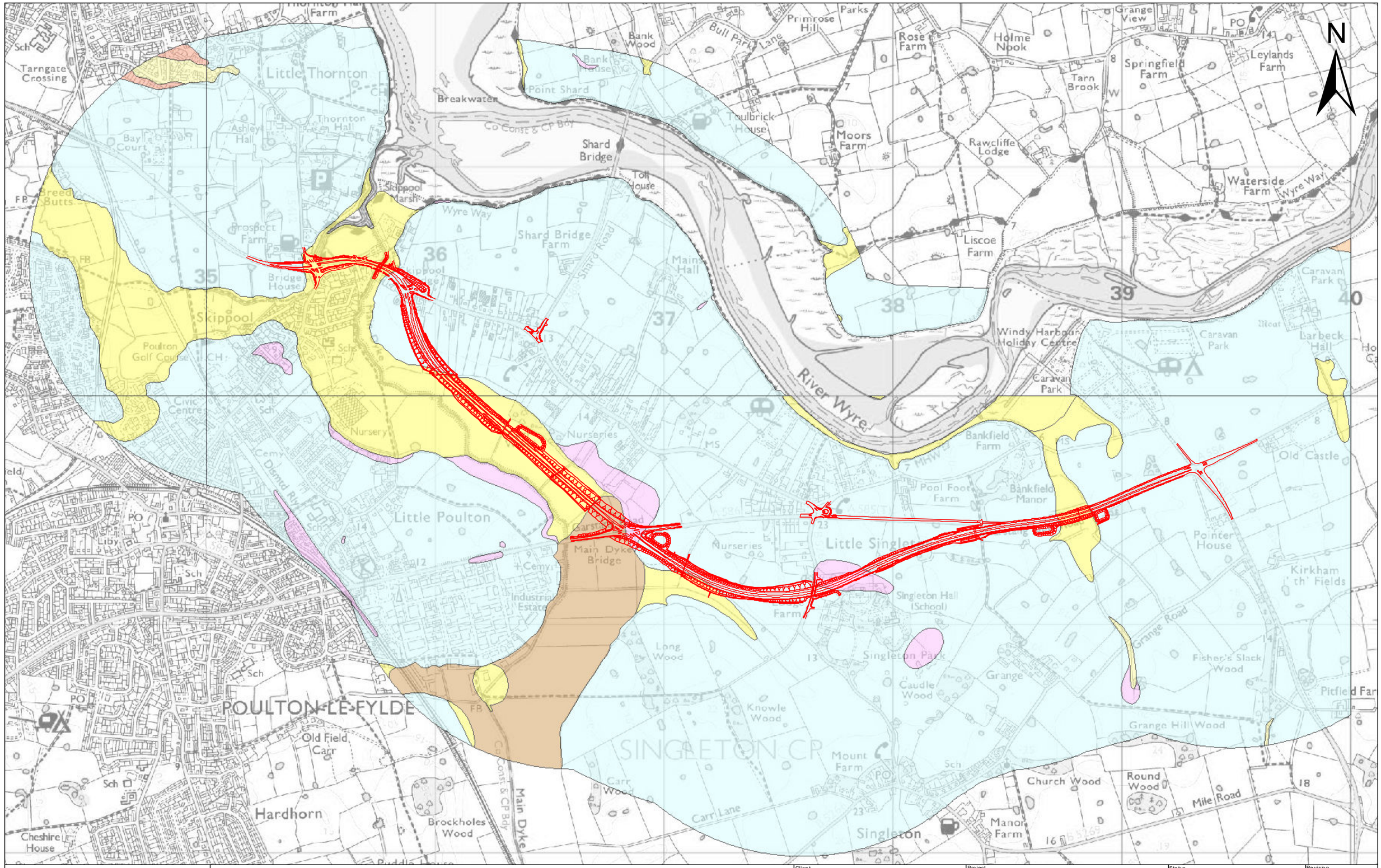

Legend

- Alignment Route
- Alluvial Fan Deposits
- Alluvium
- Glaciofluvial Deposits
- Peat
- River Terrace Deposits
- Tidal Flat Deposits
- Till

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0 0.125 0.25 0.5 0.75 1 Kilometres

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
01	S3	09/07/18	For Information	PK	KK/JB	NH
00	S3	17/05/18	For Information	PK	KK/JB	NH

Client: highways england

ARCADIS Design & Consultancy for natural and built assets

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing title: BGS GEOLOGICAL MAP SUPERFICIAL DEPOSIT

Status	S3 PRELIMINARY DESIGN	Revision	01
Scale	1:15,000	Date	09/07/18
Drawn By	P. Kesavan		
Checked By	K. Kordeczka-Kania/ J. Baple		
Approved By	N. Henderson		
Project No	UA009921	Original Size	A3

Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3002

Legend

- Alignment Route Option 1B
- Hambleton Mudstone Member
- Kirkham Mudstone Member
- Mythop Halite Member
- Singleton Mudstone Member

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
01	S3	09/07/18	For Information	PK	KK/JB	NH
00	S3	17/05/18	S3 For Information	PK	KK/JB	NH

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0 0.125 0.25 0.5 0.75 1 Kilometres

Client: highways england

ARCADIS Design & Consultancy for natural and built assets

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

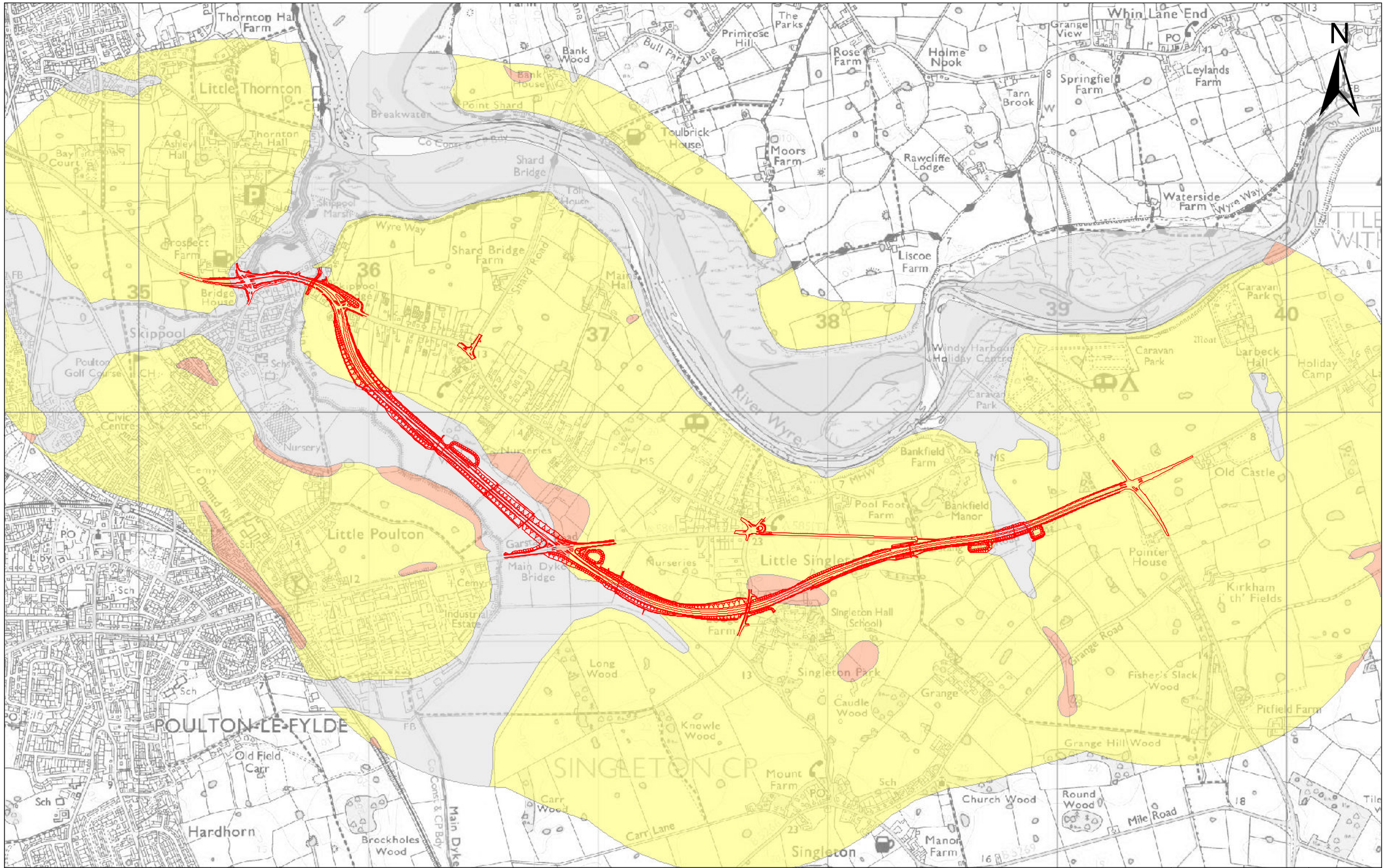
Drawing title: BGS GEOLOGICAL MAP BEDROCK

Status: S3 PRELIMINARY DESIGN

Revision: 01

Scale	1:15,000	Date - 09/07/18
Drawn By	P. Kesavan	
Checked By	K. Kordeczka-Kania/ J. Baple	
Approved By	N. Henderson	
Project No	UA009921	Original Size: A3

Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3003



Legend

- Alignment Route Option 1B
- Secondary Aquifer - A
- Secondary Aquifer - Undifferentiated
- Unproductive Strata

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
01	S3	09/07/18	For Information	PK	KK/JB	NH
00	S3	17/05/18	S3 For Information	PK	KK/JB	NH

Client: highways england

ARCADIS — Design & Consultancy for natural and built assets

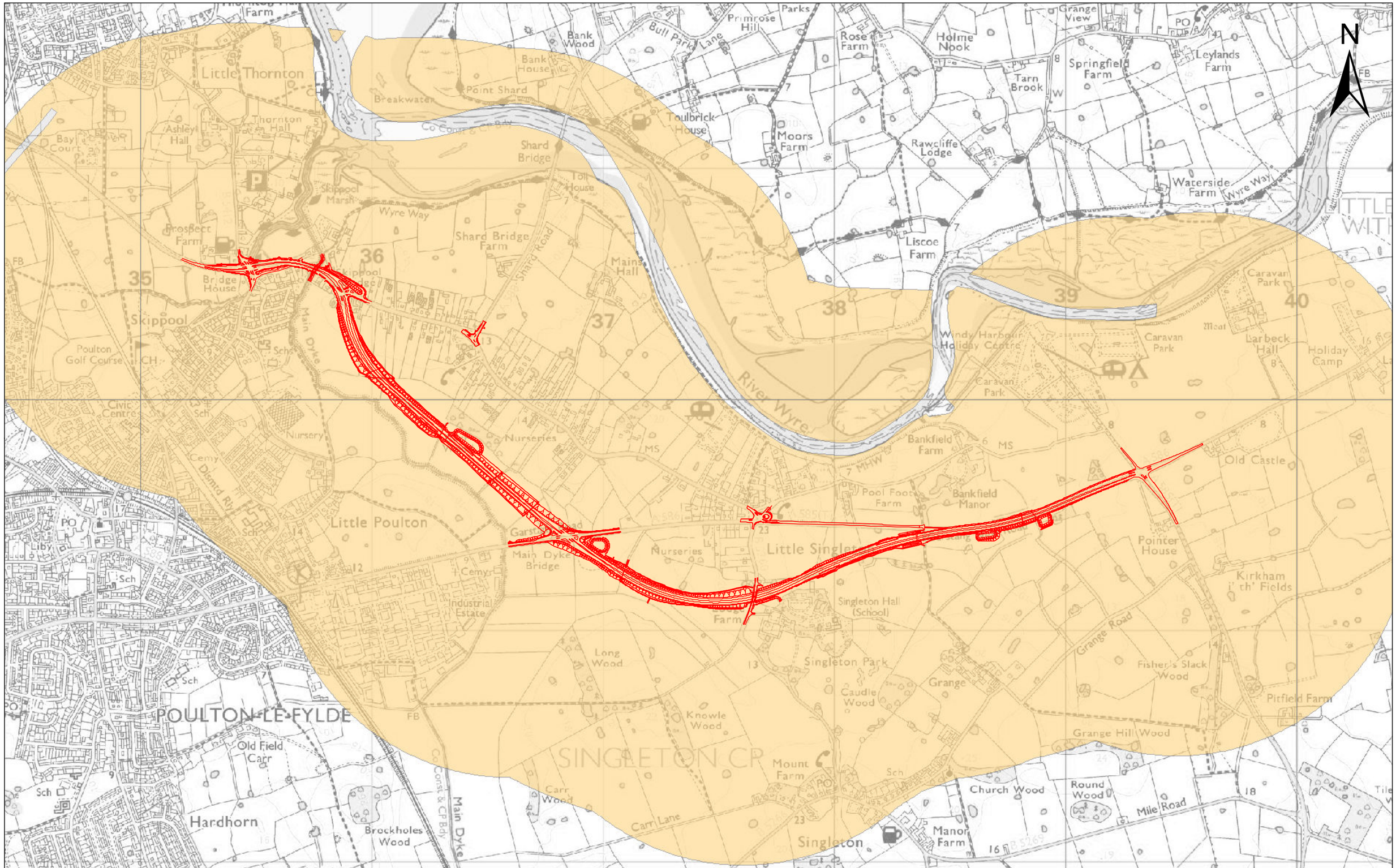
Registered office: Arcadis House, 34 York Way, London, N1 9AB. Co-ordinating office: The Survey Research Park, 10 Mole Business Road, Guildford, GU2 7AR. Tel: +44 (0)1483 803000. www.arcadis.com

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing title: BGS SUPERFICIAL AQUIFERS DESIGNATION MAP

Status	S3 PRELIMINARY DESIGN	Revision	01
Scale	1:15,000	Date - 09/07/18	
Drawn By	P. Kesavan		
Checked By	K. Kordeczka-Kania/ J. Baple		
Approved By	N. Henderson		
Project No	UA009921	Original Size	A3

Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3014



Legend

- Alignment Route Option 1B
- Secondary Aquifer - B
- Unproductive Strata

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0 0.125 0.25 0.5 0.75 1 Kilometres

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
01	S3	09/07/18	For Information	PK	KK/JB	NH
00	S3	17/05/18	S3 For Information	PK	KK/JB	NH

Client: highways england

ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Co-ordinating office: The Surrey Research Park, 10 Molesey Road, Guildford GU2 7AN, Tel: 44 (0)14 83 80 3000
www.arcadis.com

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing title: BGS SUPERFICIAL AQUIFERS DESIGNATION MAP

Status	S3 PRELIMINARY DESIGN	Revision	01
Scale	1:15,000	Date - 09/07/18	
Drawn By	P. Kesavan		
Checked By	K. Korde czka-Kania/ J. Baple		
Approved By	N. Henderson		
Project No	UA009921	Original Size	A3

Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3015

Legend

- Alignment Route Option 1B
- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
01	S3	09/07/18	For Information	PK	KK/JB	NH
00	S3	17/05/18	S3 For Information	PK	KK/JB	NH

0 0.175 0.35 0.7 1.05 1.4 Kilometres

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Client: highways england

ARCADIS Design & Consultancy for natural and built assets
www.arcadis.com

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing title: BGS GROUNDWATER FLOOD SUSCEPTIBILITY

Status: S3 PRELIMINARY DESIGN
Revision: 01

Scale	1:20,000	Date - 09/07/18	
Drawn By	P. Kesavan		
Checked By	K. Kordeczka-Kania/ J. Baple		
Approved By	N. Henderson		
Project No	UA009921	Original Size	A3

Drawing Number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3016

Appendix D Walkover Photographs

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Keyworker Homes site adjacent to Skippool Bridge (CH. 530m, View: North-East)

Main Dyke running north-south across Skippool Bridge (CH. 570m, View: North)

Historical pond nearby to BH04 at Mains Lane (CH. 750m, View: South)

Drain feature and culvert running across field at Skippool Channel (CH. 1100m, View: North-West)

Wet and boggy conditions in the fields at Skippool Channel (CH. 1300m, View: South)

Ditch feature running along this field at Skippool Channel (CH. 1300m, View: North-East)

Field view across positions CPT08 and CPT09 along Skippool Channel (CH. 1700m, View: North-West)

Main Dyke along Skippool Channel (CH. 1820m, View: East)

Waterlogging on field along Skippool Channel (CH. 1850m, View: North-East)

View from Skippool Channel to A586 Gastang Road viewing Embankment (CH. 2100m, View: East)

View looking onto field directly adjacent to A586 Gastang Road (CH. 2220m, View: North)

Field adjacent to A586 Gastang Road presenting drain features (CH. 2220m, View: North)

View onto field across A586 Gastang Road (CH. 2300m, View: East)

Pond in field adjacent to A586 Gastang Road (CH. 2330m, View: South)

Stream running across A586 Gastang Road towards bottom of Valley (CH. 2500m, View: North)

Field across A586 Gastang Road towards the bottom of the Valley (CH. 2500m, View: West)

View onto the Peaty area at the bottom of the Valley (CH. 2600m, View: South)

View onto the Peaty area at the bottom of the Valley (CH. 2600m, View: South-West)

View onto the Peaty area at the bottom of the Valley (CH. 2600m, View: West)

View onto the Peaty area at the bottom of the Valley (CH. 2600m, View: East)

Pond at field west of Lodge Lane (CH. 2680m, View: North-West)

Pond at field west of Lodge Lane (CH. 2770m, View: West)

Overhead cables at field west of Lodge Lane (CH. 2930m, View: North)

Overhead cables at field west of Lodge Lane (CH. 2950m, View: North)

View across field west of Lodge Lane (CH. 3000m, View: West)

View across west of Lodge Lane field (CH. 3050m, View: South)

Gas main along Lodge Lane exposed at positions of BH13 and BH103 (CH. 3070m, View: North)

View across field east of Lodge Lane at Singleton Manor (CH. 3200m, View: East)

Area of significant Rutting due to point of lower elevation across field (CH. 3330m, View: North-East)

Field east of Lodge Lane at Singleton Manor rising in elevation (CH. 3380m, View: East)

View from field at Singleton Manor overlooking A585 New Gastang Road (CH. 3540m, View: North)

Potato field adjacent to A585 New Gastang Road (CH. 3580m, View: North)

Overlooking Asha Blues Animal Farm in the location of BH10 (CH. 3890m, View: South)

View across potato field adjacent to A585 New Gastang Road (CH. 3700m, View: East)

Asha Blues Animal Farm adjacent to A585 at location of BH11A (CH. 4250m, View: North-East)

Overlooking field across culvert at Asha Blues Animal Farm (CH. 4300m, View: East)

View onto A585 New Gastang Road (CH. 4250m, View: North-East)

View onto A585 New Gastang Road (CH. 4200m, View: West)

Culvert running across A585 near the location of WS113 (CH. 4350m, View: South-East)

Culvert running across A585 near the location of BH11A (CH. 4310m, View: South)

Appendix E Historical Maps and Table

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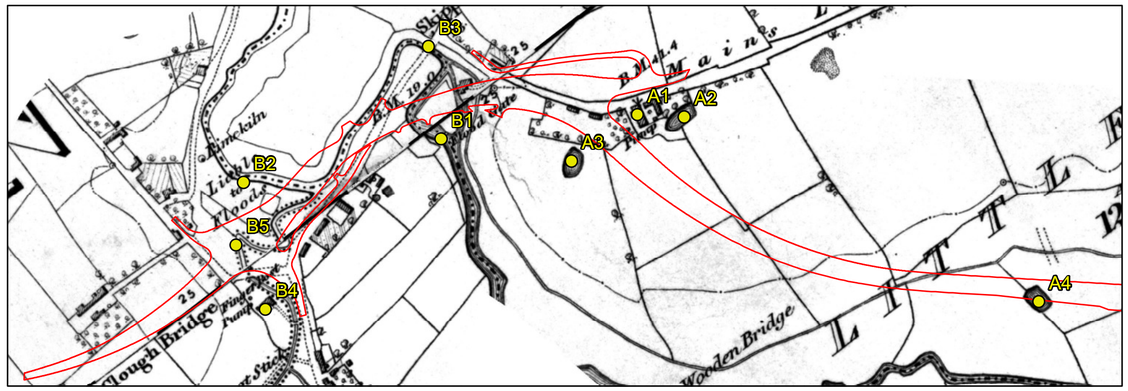
1847-1848



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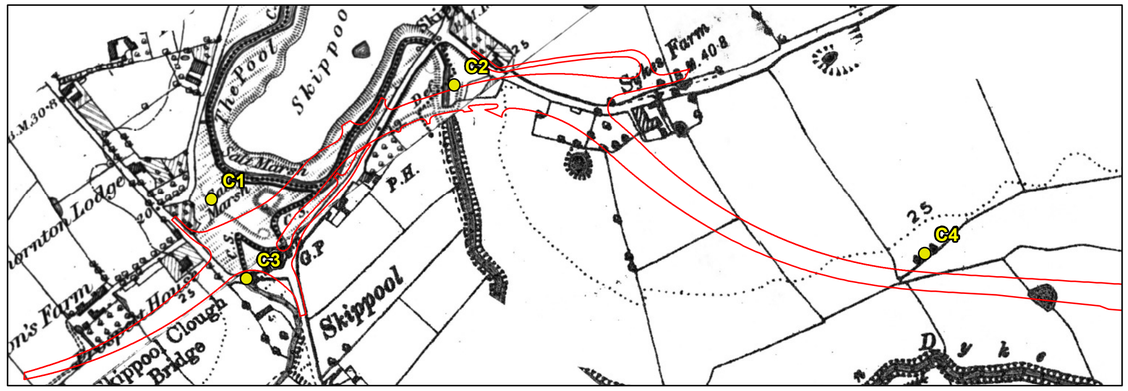

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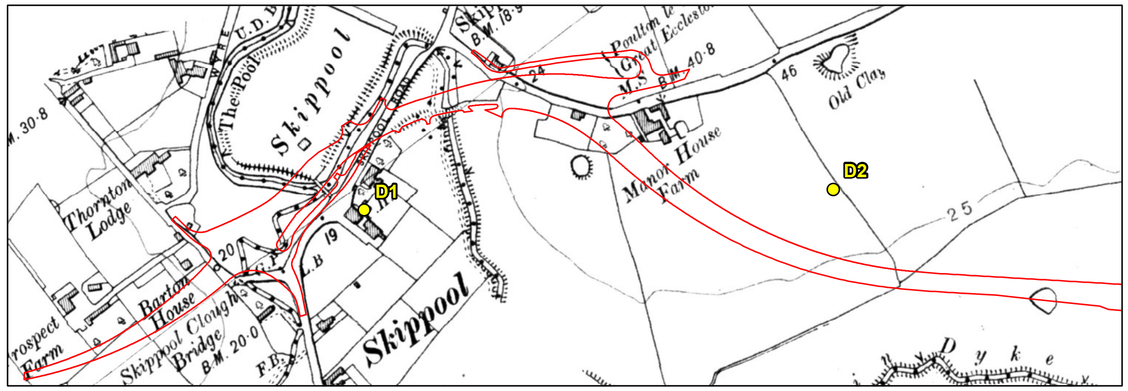

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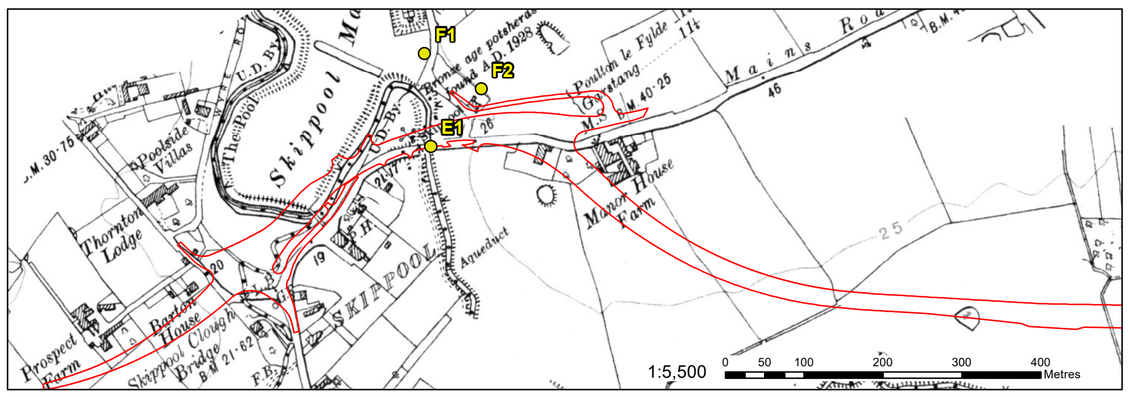

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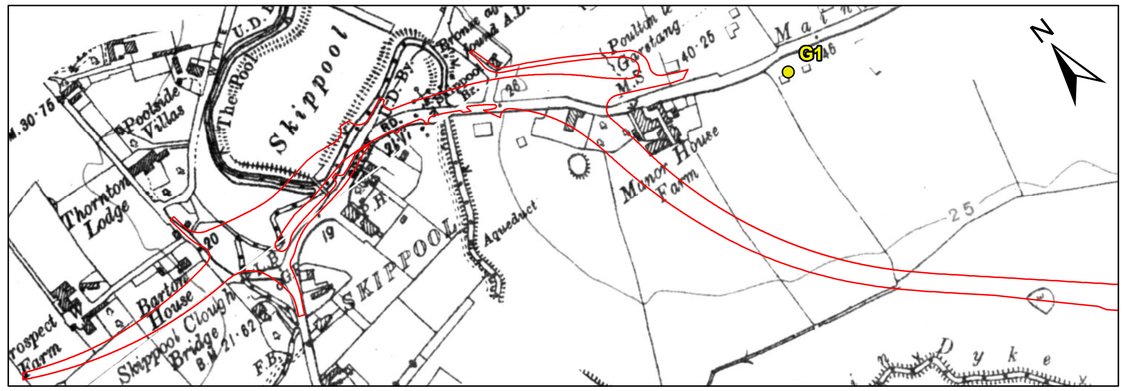

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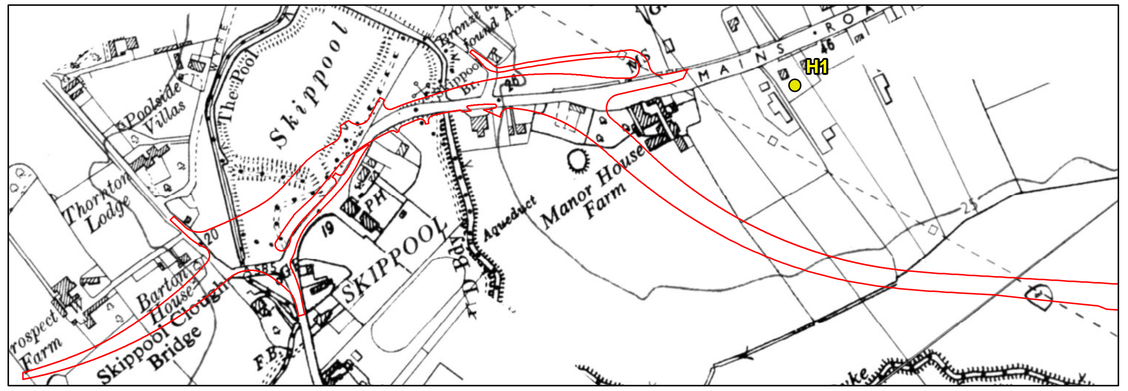

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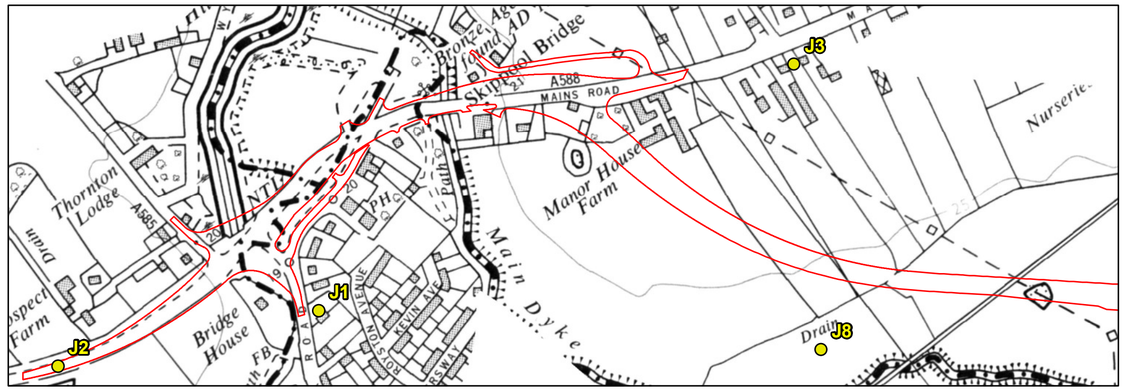

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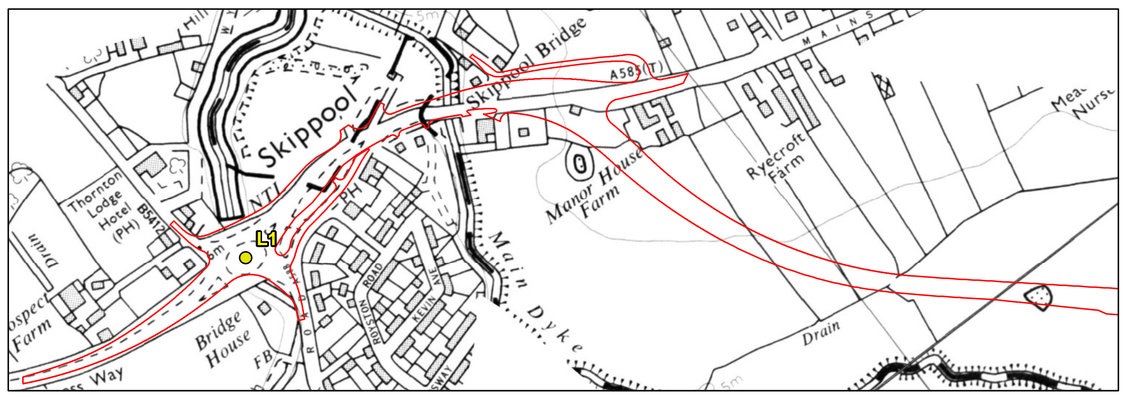

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Historic Review Point

A585 Alignment Extent

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
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00	S3	17/05/18	For Information	CR	KK	NH

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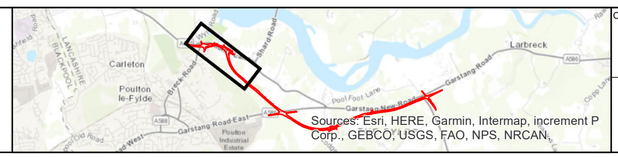

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Project: A585 WINDY HARBOUR JUNCTION TO SKIPPOOL IMPROVEMENT

Title: HISTORIC OVERVIEW OF CHANGES SHEET 1 OF 4 SECTION 1

Status	S3 PRELIMINARY DESIGN	Revision 02
Scale	1:5,500	
Drawn	C. Robinson	
Checked	K. Kordeczka-Kania	
Approved	N. Henderson	
Project No	UA009921	Original Size A2
Drawing Number:	HE548643-ARC-HGT-SZ_ZZ_000-DR-CE-3017	

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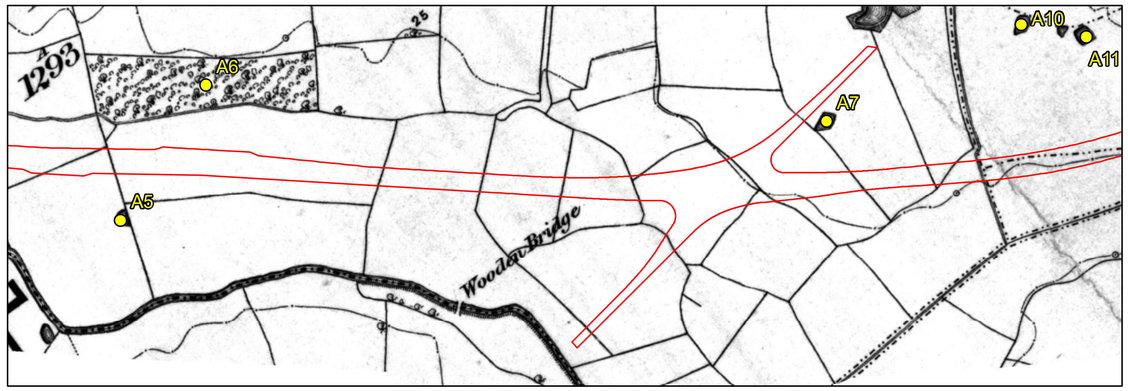
1847-1848



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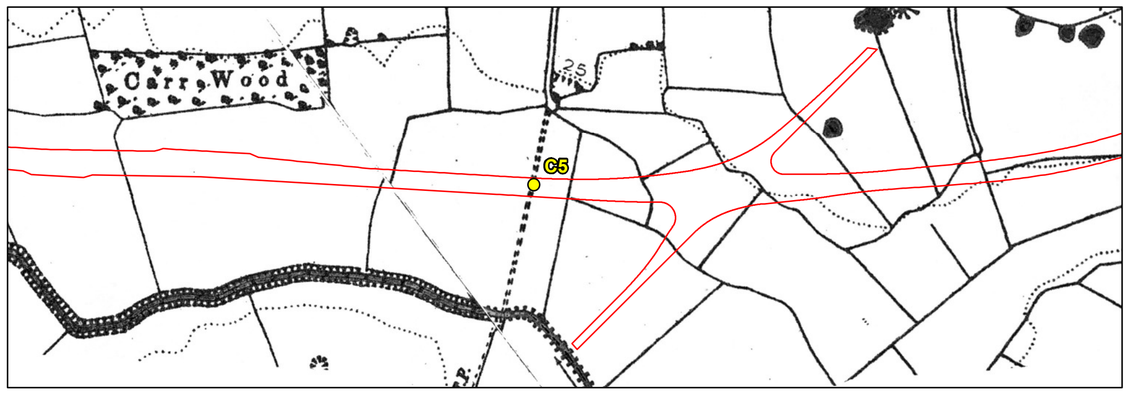

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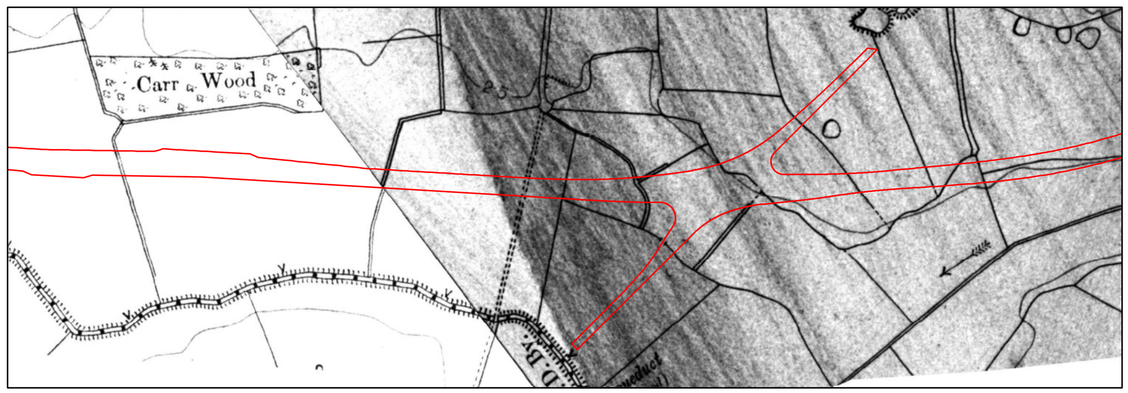

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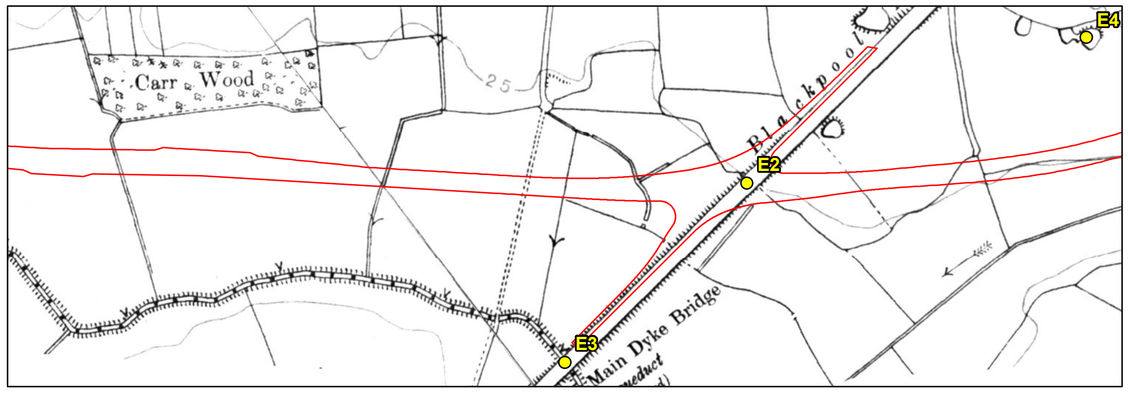

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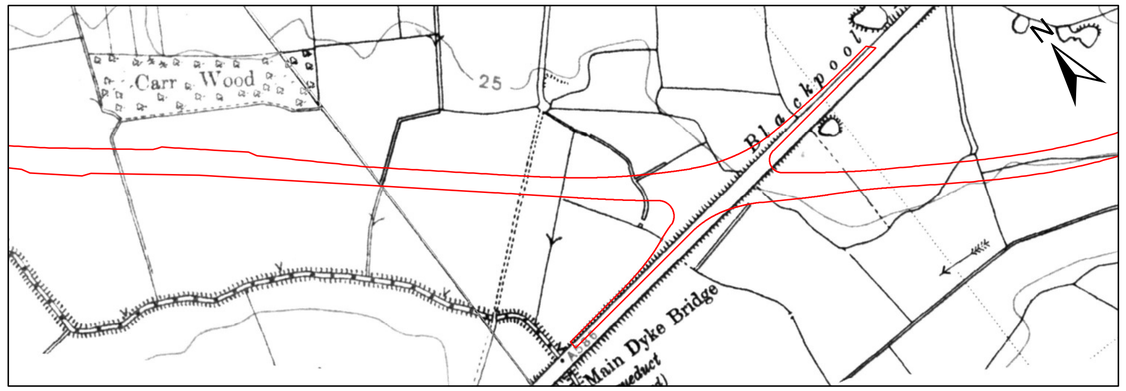

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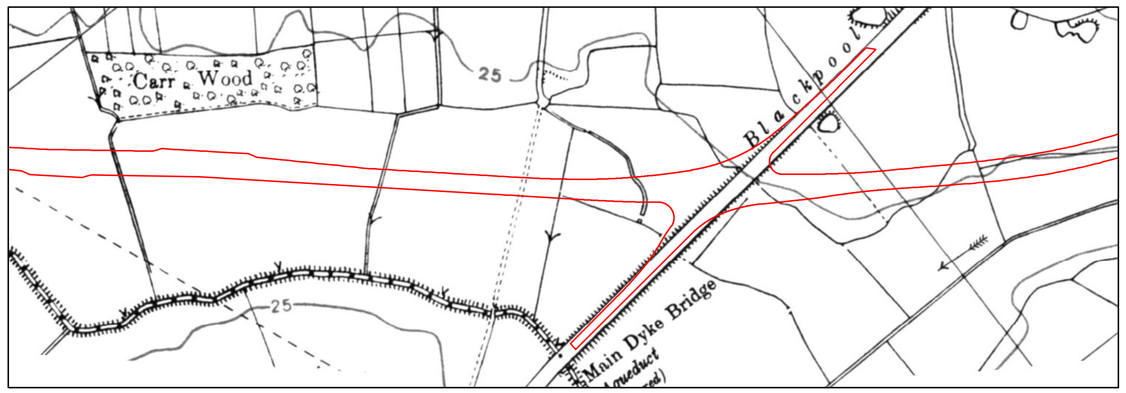

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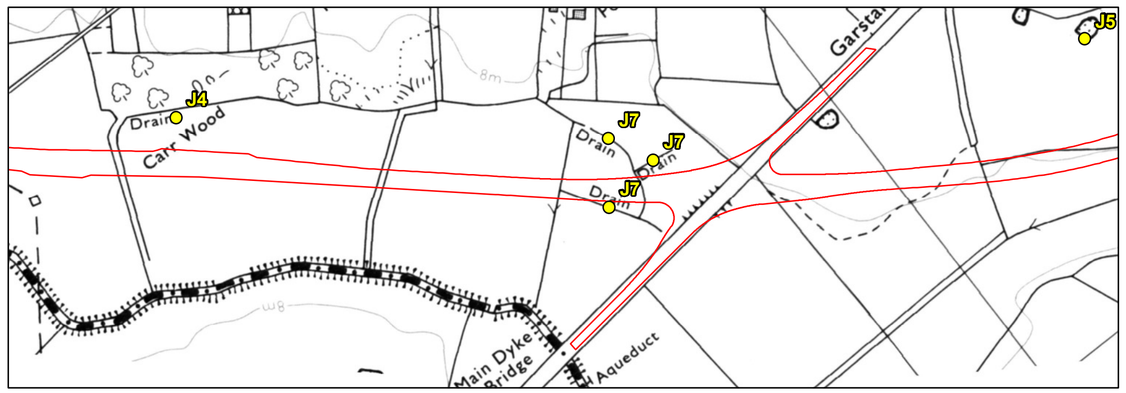

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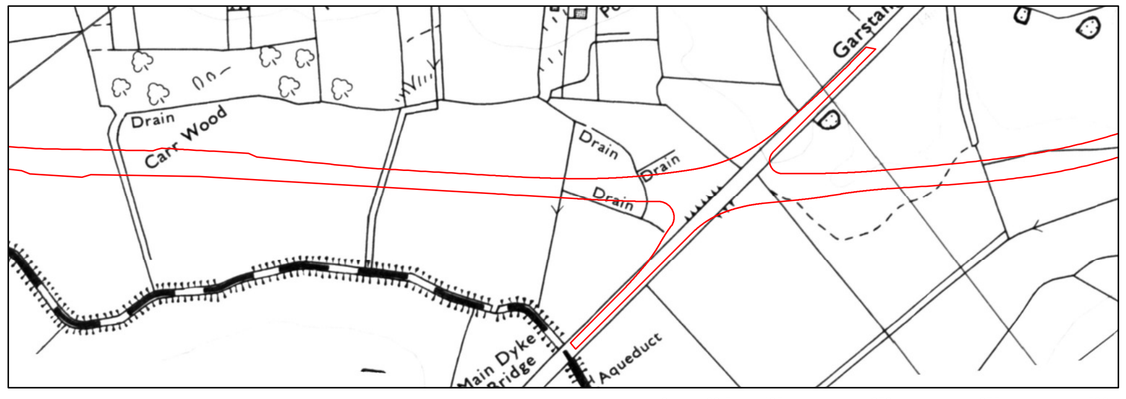

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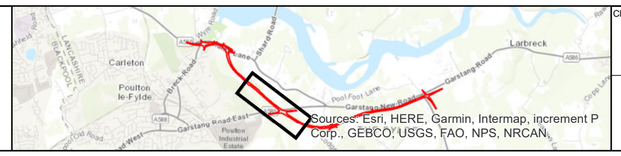
- A585 Alignment Extent



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check	Appr
02	S3	09/07/18	For Information	CR	KK	NH
00	S3	17/05/18	For Information	CR	KK	NH

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Coordinating office: The Surrey Research Park 10 Molesey Road Guildford GU2 7AN Tel: 44 (0)1483 862800

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Project: A585 WINDY HARBOUR JUNCTION TO SKIPPOOL IMPROVEMENT

Title: HISTORIC OVERVIEW OF CHANGES SHEET 2 OF 4 SECTION 2

Status	S3 PRELIMINARY DESIGN
Revision	00
Scale	1:5,000
Drawn	C. Robinson
Checked	K. Kordeczka-Kania
Approved	N. Henderson
Project No	UA009921
Original Size	A2

Drawing Number: HE548643-ARC-HGT-SZ_ZZ_000-DR-CE-3018

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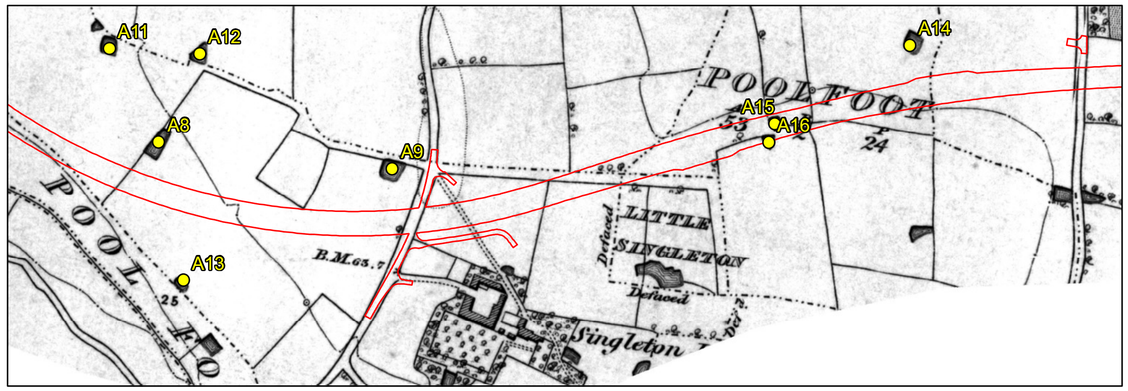
1847-1848



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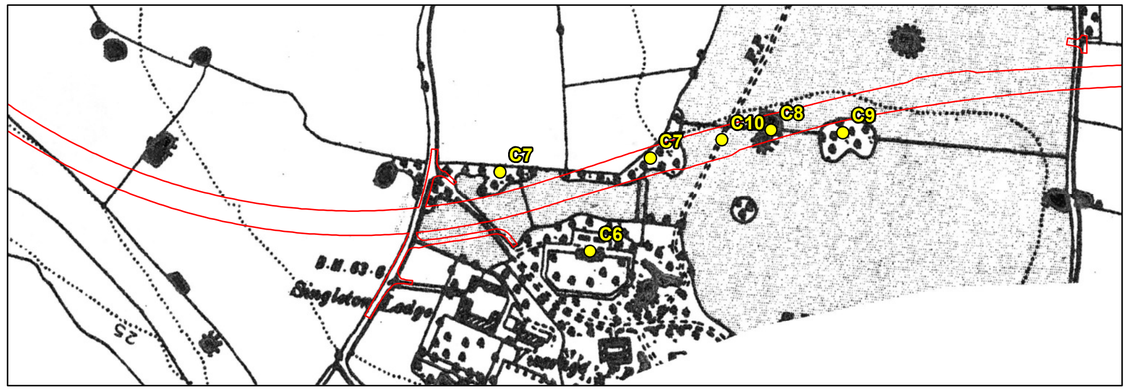

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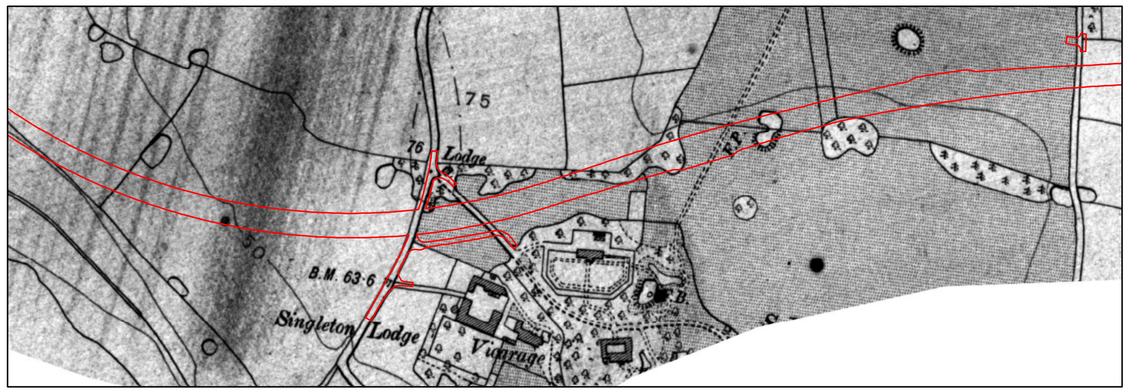

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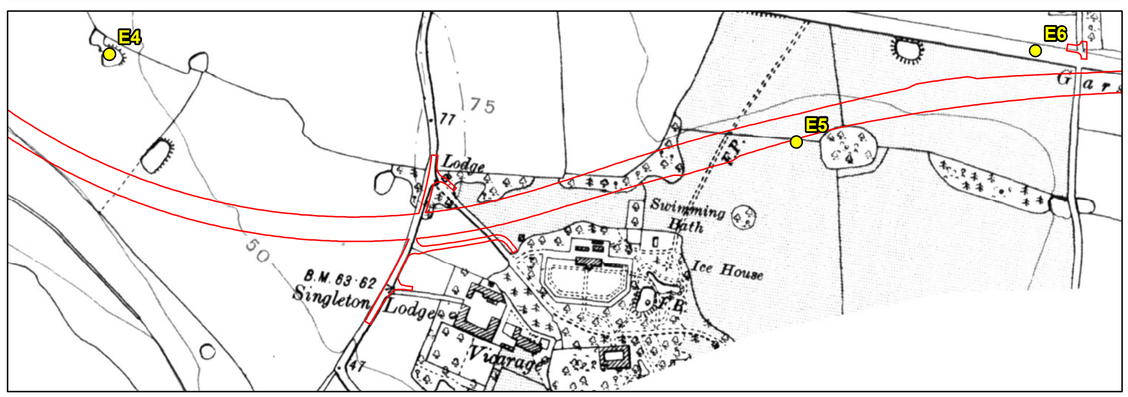

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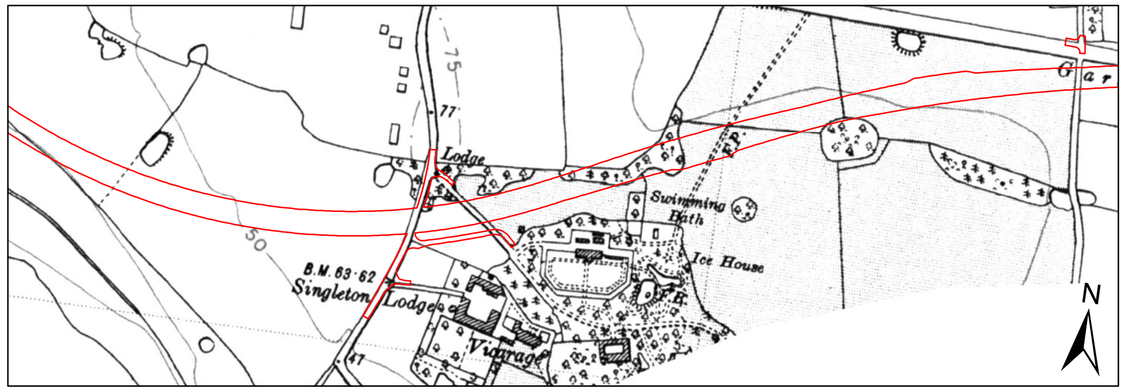

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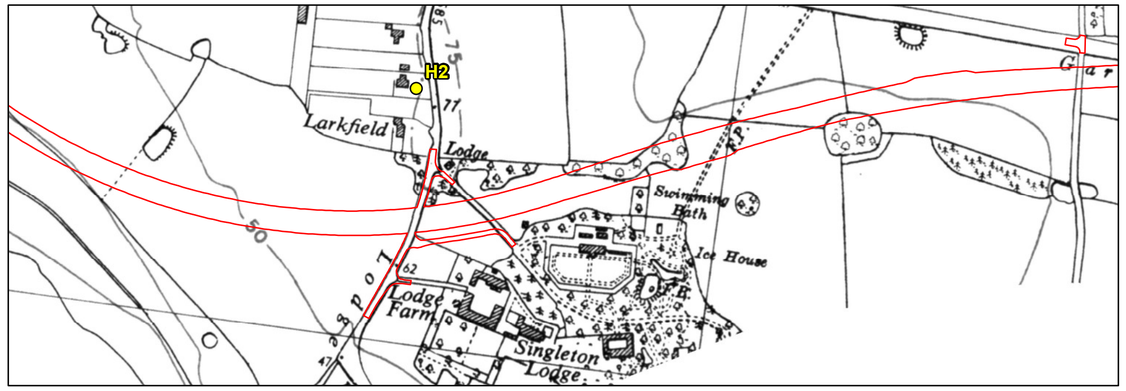

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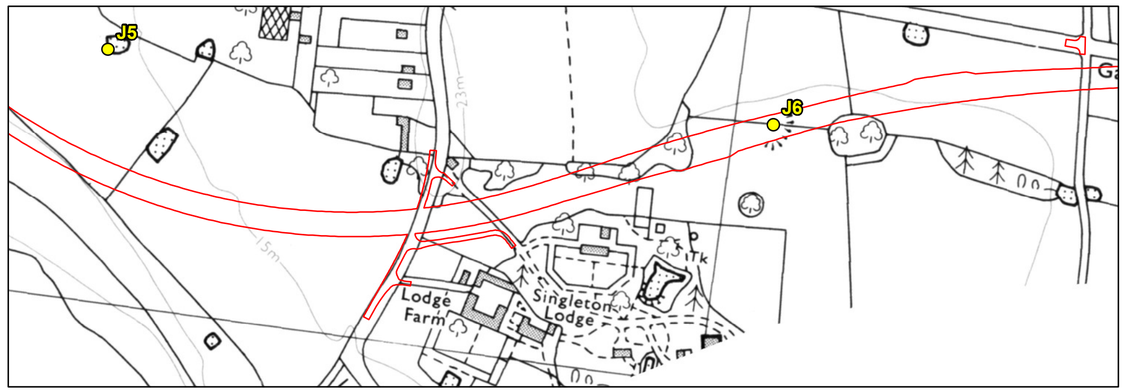

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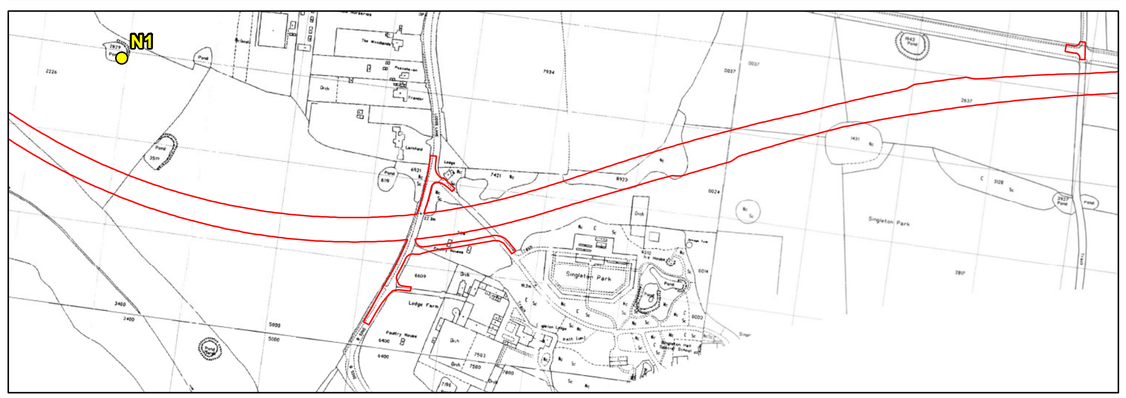

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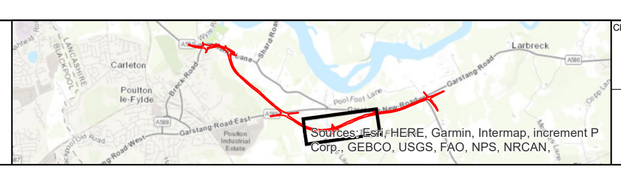
- Historic Review Point
- A585 Alignment Extent



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02	S3	09/07/18	For Information	CR	KK	NH
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Project: A585 WINDY HARBOUR JUNCTION TO SKIPPOOL IMPROVEMENT

Title: HISTORIC OVERVIEW OF CHANGES SHEET 3 OF 4 SECTION 3

Status	S3 PRELIMINARY DESIGN
Revision	00
Scale	1:5,000
Drawn	C. Robinson
Checked	K. Kordeczka-Kania
Approved	N. Henderson
Project No	UA009921
Original Size	A2

Drawing Number: HE548643-ARC-HGT-SZ_ZZ_000-DR-CE-3019

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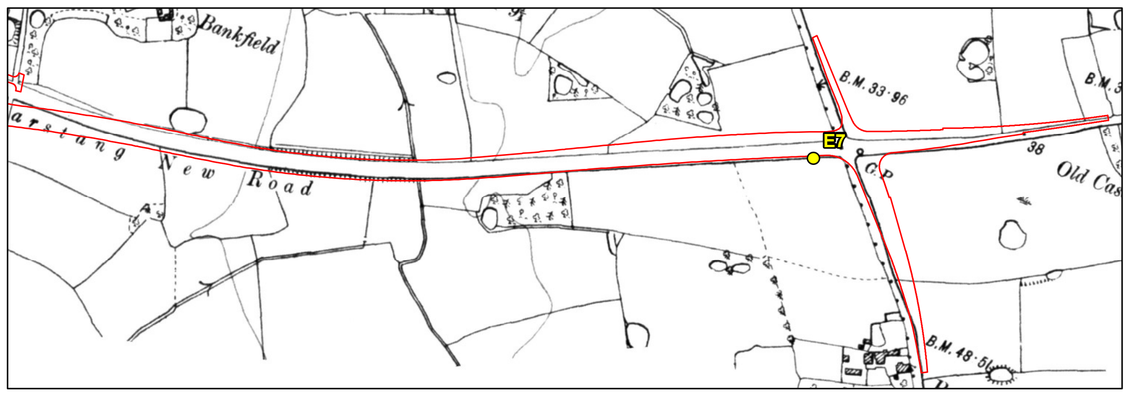
1847-1848

1891

1910

1930 - 1931



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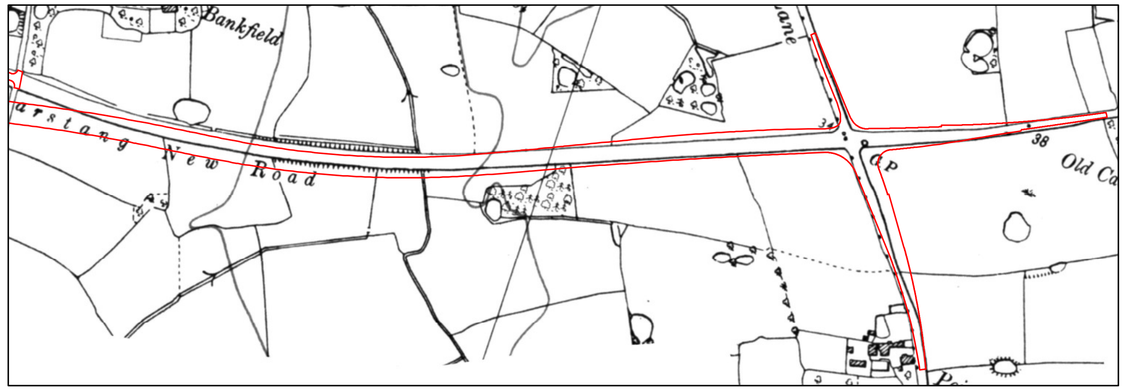

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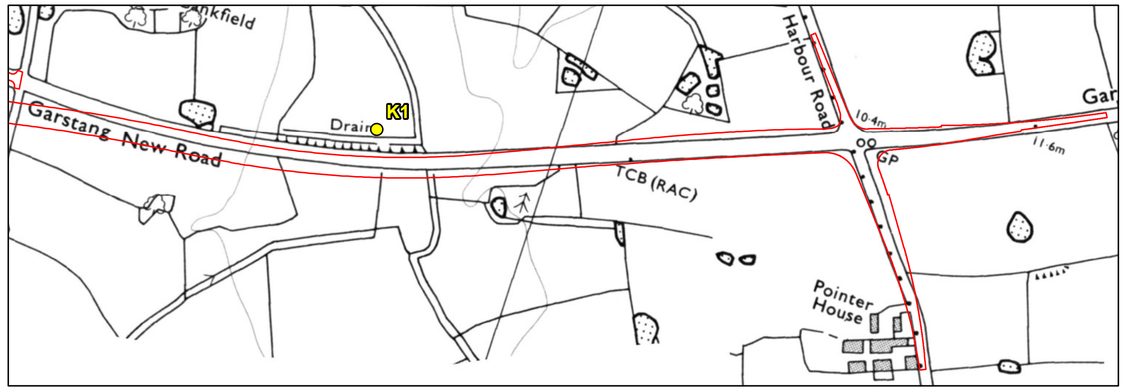

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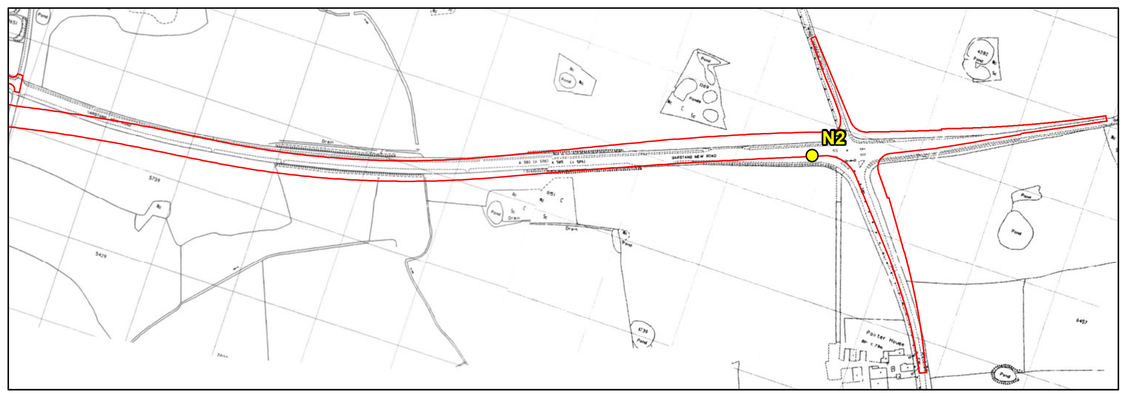

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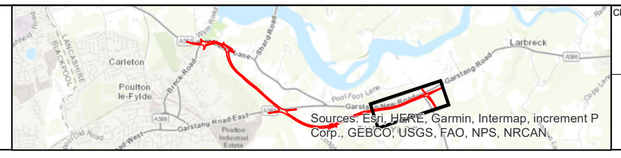

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Title: HISTORIC OVERVIEW OF CHANGES SHEET 4 OF 4 SECTION 4

Status	S3 PRELIMINARY DESIGN	Revision 00
Scale	1:5,000	
Drawn	C. Robinson	
Checked	K. Kordeczka-Kania	
Approved	N. Henderson	
Project No	UA009921	Original Size A2
Drawing Number	HE548643-ARC-HGT-SZ_ZZ_000-DR-CE-3020	

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Historical Map Edition	Year	Map Point Ref	Location	Features
10560	1847	A1	Mains Lane	Pump
		A2	Mains Lane	Pond
		A3	Proposed Route along Skippool Channel	Pond
		A4	Proposed Route along Skippool Channel	Pond in approximate area of CPT5
		A5	Proposed Route along Skippool Channel	Pond approximately 40m south of CPT7
		A6	Proposed Route along Skippool Channel	Woods in boundary
		A7	Proposed Route along Skippool Channel at Proposed Roundabout	Pond just east of TP104
		A8	Lodge Lane Northern Burrow Pit Area	Pond south of TP107
		A9	West of Lodge Lane	Pond north of BH13
		A10	West of Lodge Lane	Pond approximately 30m north east of TP105
		A11	West of Lodge Lane	Two small ponds located approximately 45m north of BH105
		A12	West of Lodge Lane	Pond approximately 50m north of TP107
		A13	Lodge Lane Southern Burrow Pit Area	Pond
		A14	East of Lodge Lane	Pond 40m north of WS104
		A15	East of Lodge Lane	Pond in area of BH18
		A16	East of Lodge Lane	Pond in area of BH18
		A17	Windy Harbour	Pond between WS103 and BH10
		A18	Windy Harbour	Pond 115m east of WS115
		A19	Windy Harbour Junction	Pond
	1848	B1	Skippool Bridge	Two dyke channels between Skippool Junction and Skippool Bridge
		B2	Skippool Junction	Map states "Liable to Floods"
		B3	Skippool Bridge	Bridge in another location
		B4	Skippool Junction	Pump
		B5	Skippool Junction	Water Course
	1910	D1	Skippol Junction	New building development (P.H.) between Skippool Junction and Skippool Bridge
		D2	Proposed Route along	Ponds previously 35m north of

Historical Map Edition	Year	Map Point Ref	Location	Features
			Skippool Channel	BH6 no longer there.
	1930	E1	Skippool Bridge	Skippool Bridge relocated.
		E2	Proposed Route along Skippool Channel at Proposed Roundabout	Blackpool New Road A586 constructed.
	1891	C1	Skippool Junction	Salt Marsh
		C2	Skippool Bridge	Main dyke formed of only one channel at Skippool Junction end
		C3	Skippool Junction	Skippool Clough Bridge at the south entrance onto Skippool Junction
		C4	Proposed Route along Skippool Channel	Two identical small ponds 10m apart approximately 35m north of BH6.
		C5	Proposed Route along Skippool Channel	F.P. (pipeline/drainage) across alignment between CPT12/CPT13 and BH5.
		C6	East of Lodge Lane	Construction of Singleton Manor
		C7	East of Lodge Lane	Presence of Trees/Woods at BH101, BH14, BH15, and BH17 locations.
		C8	East of Lodge Lane	Pond in area of BH18 merged into one.
		C9	East of Lodge Lane	Small woods approximately 40m east of BH18.
		C10	East of Lodge Lane	Some feature running through alignment (F.P.) between BH17 and BH18
		C11	Windy Harbour	Woods around and west of pond between WS115 and TP102
		E3	Proposed Route along Skippool Channel at Proposed Roundabout	Main Dyke Bridge (Aqueduct covered) constructed.
		E4	West of Lodge Lane	Two small ponds located approximately 45m north of BH105 merged into one
		E5	East of Lodge Lane	Two ponds in area of BH18 no longer present
		E6	Windy Harbour	Garstang New Road A585 constructed.
		E7	Windy Harbour Junction	Pond at junction no longer present.
	1931	F1	Skippool Bridge/Junction	Sewage Disposal Works north of Skippool Bridge
		F2	Skippool Bridge	Bronze age potsherds found A.D. 1928
	1938	G1	Mains Lane	Properties developed along Mains Road.

Historical Map Edition	Year	Map Point Ref	Location	Features
	1951	H1	Mains Lane	Further developments along Mains Road.
		H2	Lodge Lane	Properties developed north of Lodge Lane.
	1968	J1	Skippool Junction	Properties developed south of Skippool Junction.
		J2	Skippool Junction	Road built west of Skippool junction going through Prospect Farm.
		J3	Mains Lane	Further developments along Mains Road.
		J4	Skippool Channel	Drain
		J5	West of Lodge Lane	Historical Pond
		J6	Singleton Manor east of Lodge Lane	Subsidence in previous location of historical pond.
		J7	Proposed Route along Skippool Channel at Proposed Roundabout	Three drains installed in the vicinity of CPT14, CPT15 and CPT16
		J8	Proposed Route along Skippool Channel	Drain installed south of TP2
10000	1969	K1	Windy Harbour	Drain installed parallel to A585 alongside WS113
	1985	L1	Skippool Junction	Skippool Junction constructed (roundabout).
	1993	N2	Windy Harbour	Windy Harbour Junction and Gastang New Road widened.
	1994	N1	West of Lodge Lane	Pond north of BH105 increased in size to its former shape.

Appendix F Geotechnical Plots and Figures

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Particle Size Distribution

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

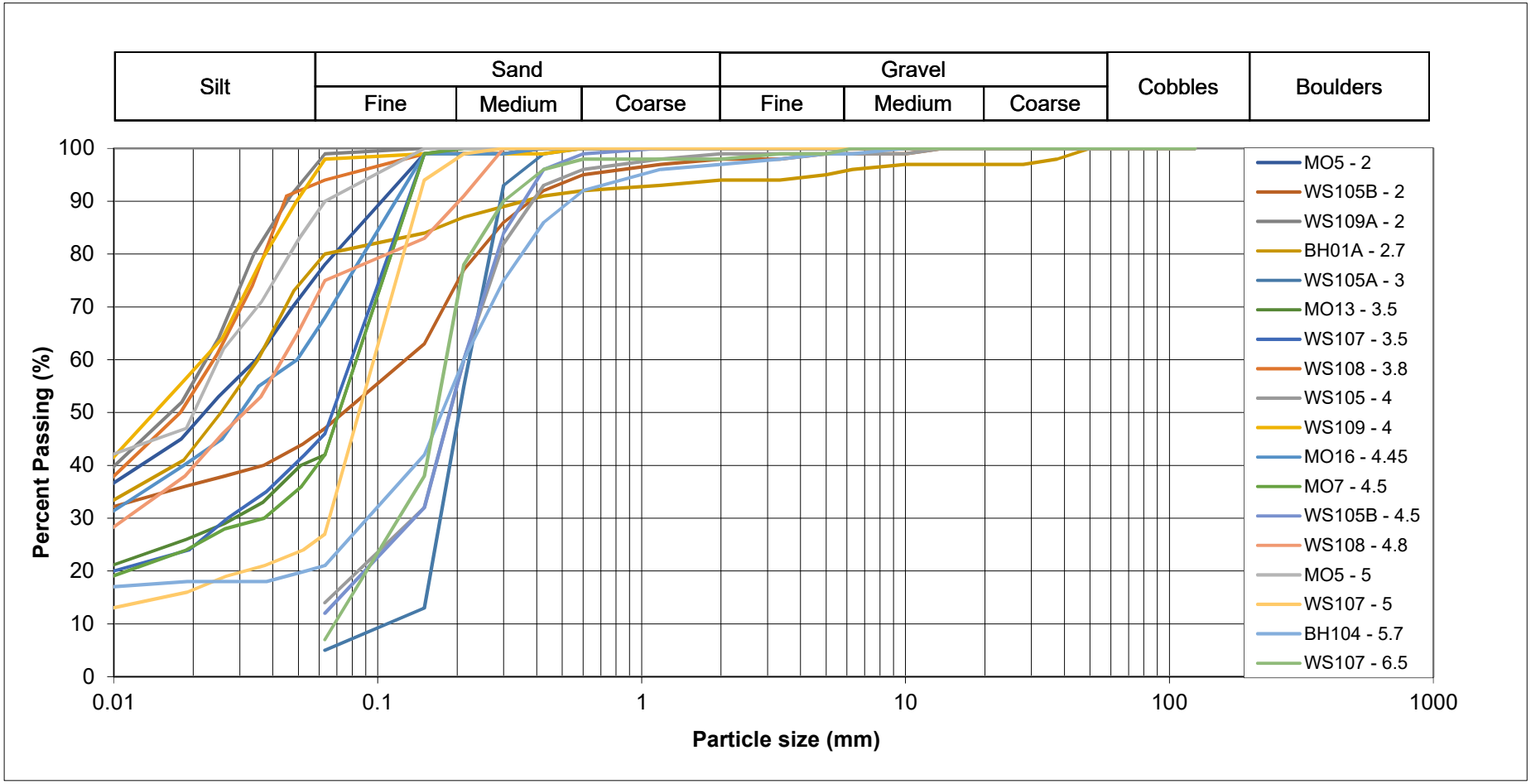

Figure 6-1

Bulk Density Vs. Depth

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UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

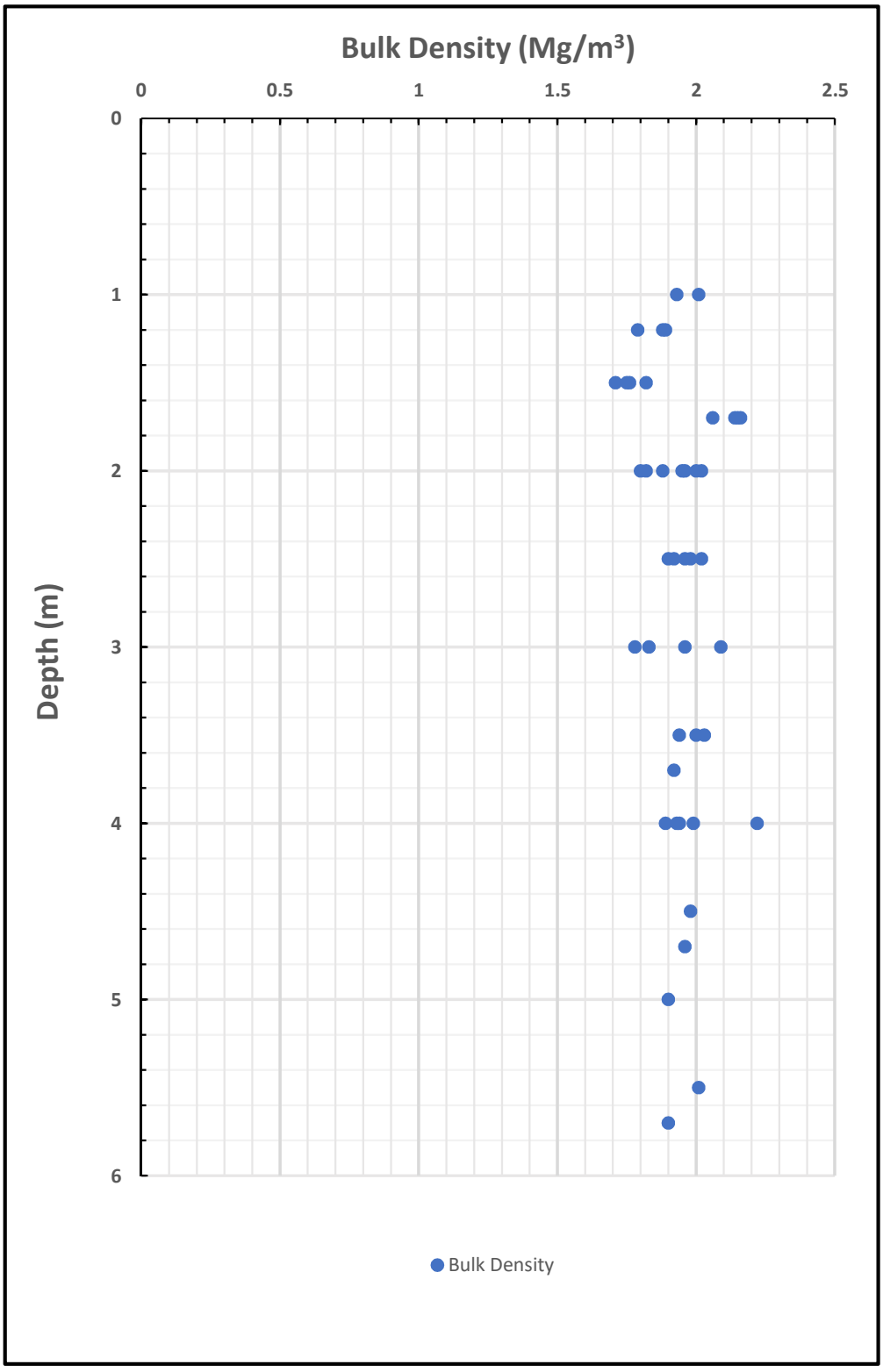


Figure 6-2

Moisture Content Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

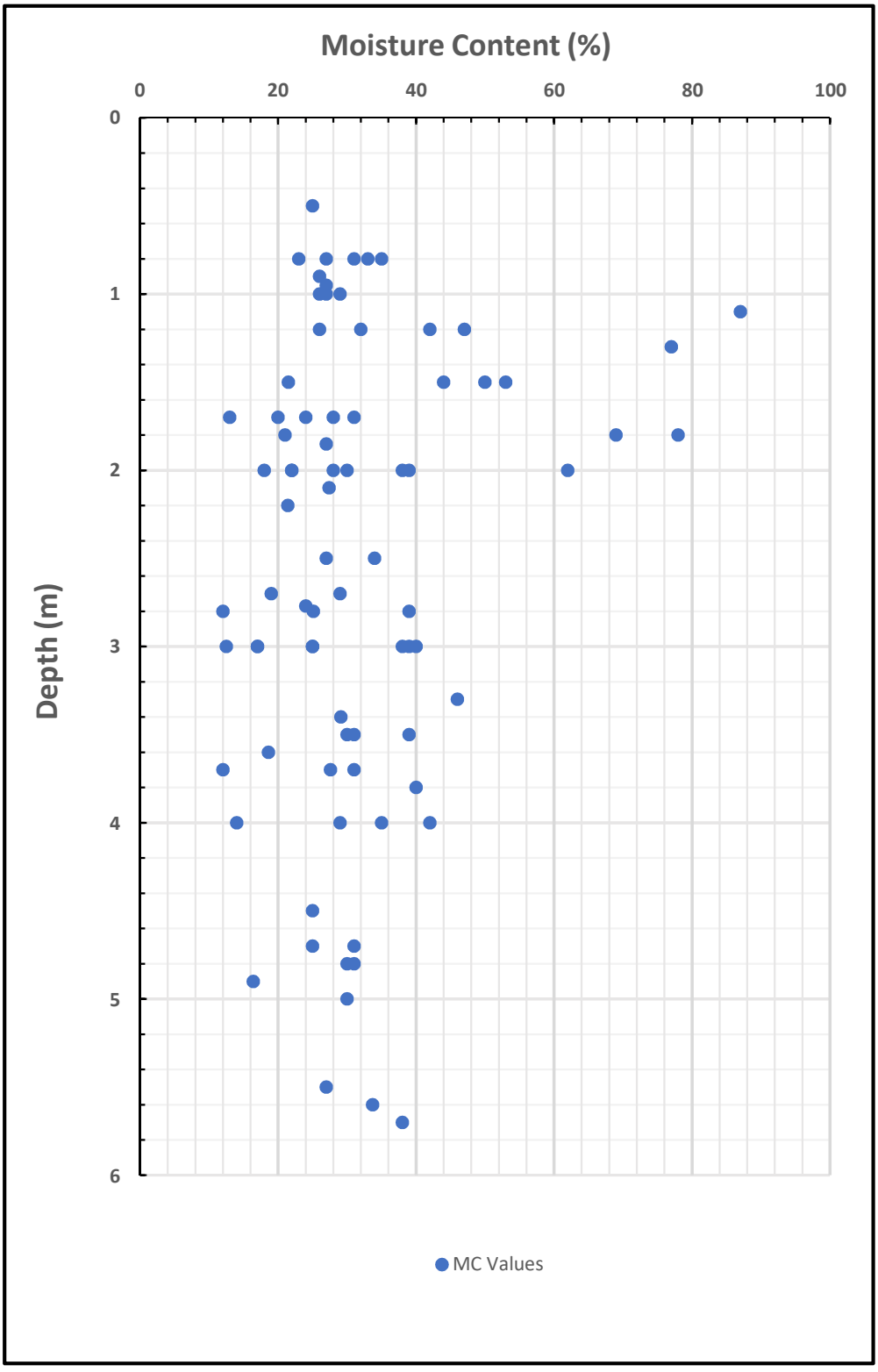


Figure 6-3

Atterberg 'A' Line Plot

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

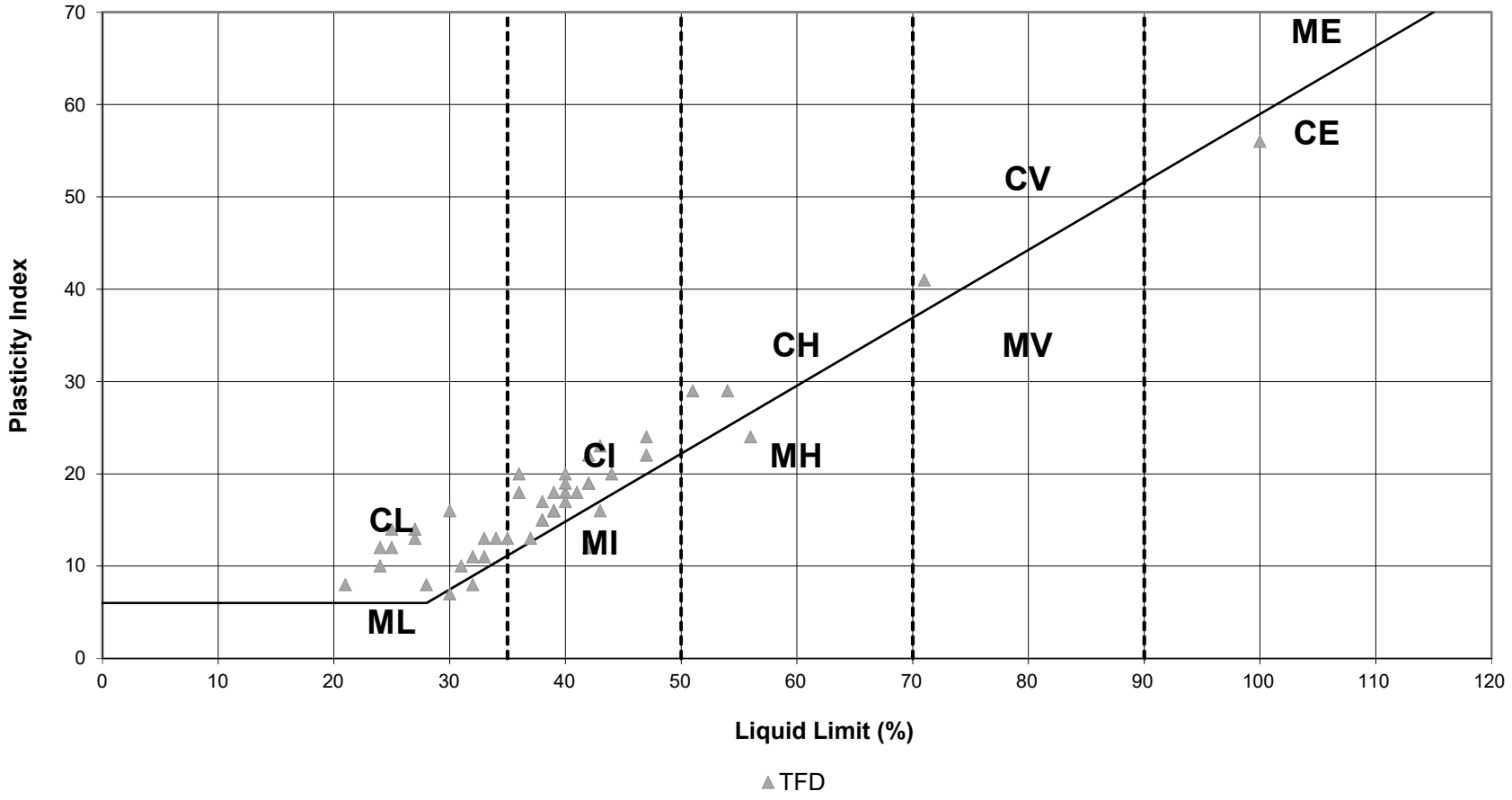


Figure 6-4

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

CPT, PV, TX - TFD - Nk* = 15 - CH. 1130 - 1380

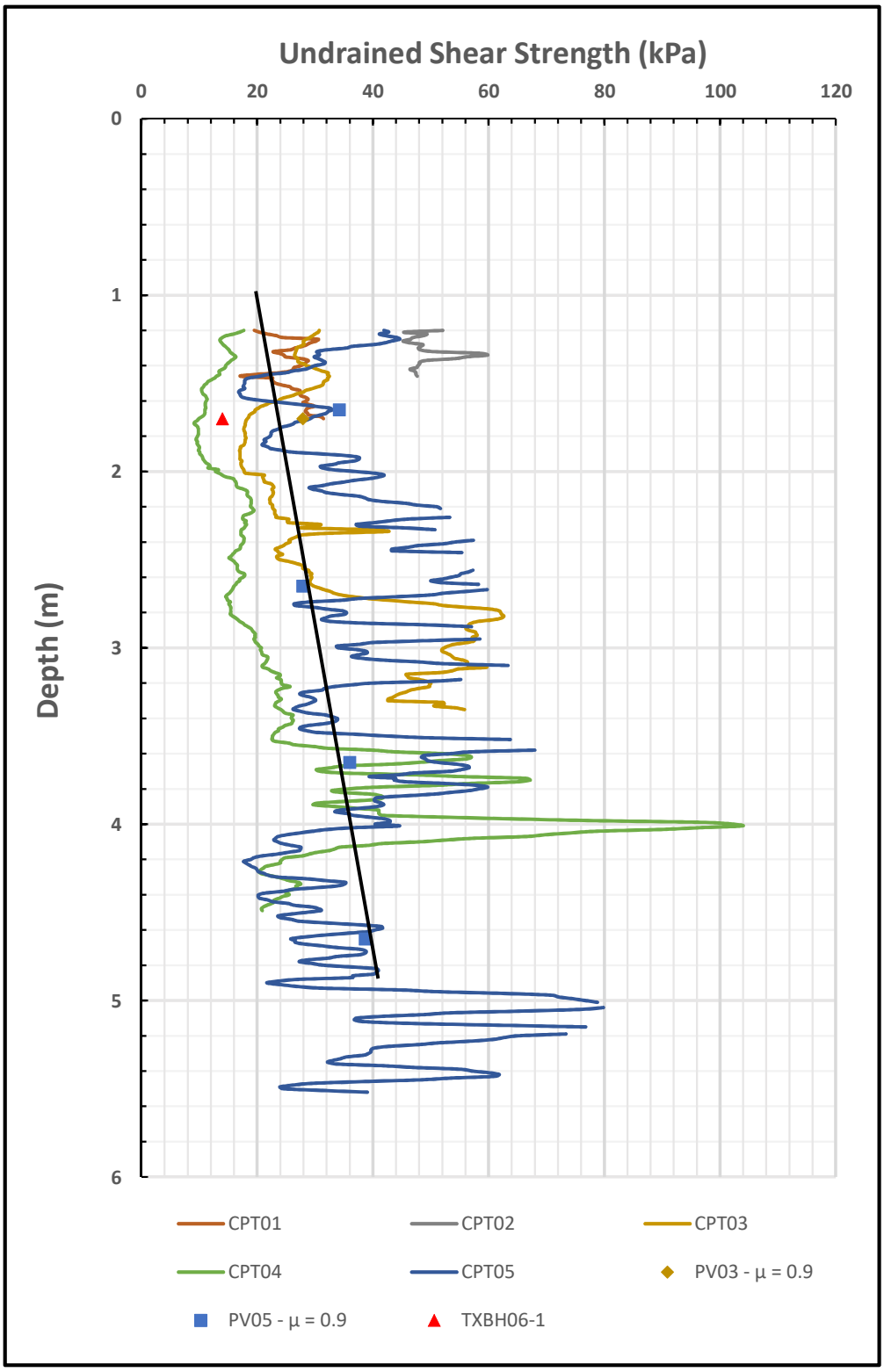


Figure 6-5

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

CPT, PV, TX - TFD - Nk* = 15 - CH. 1380 - 1650

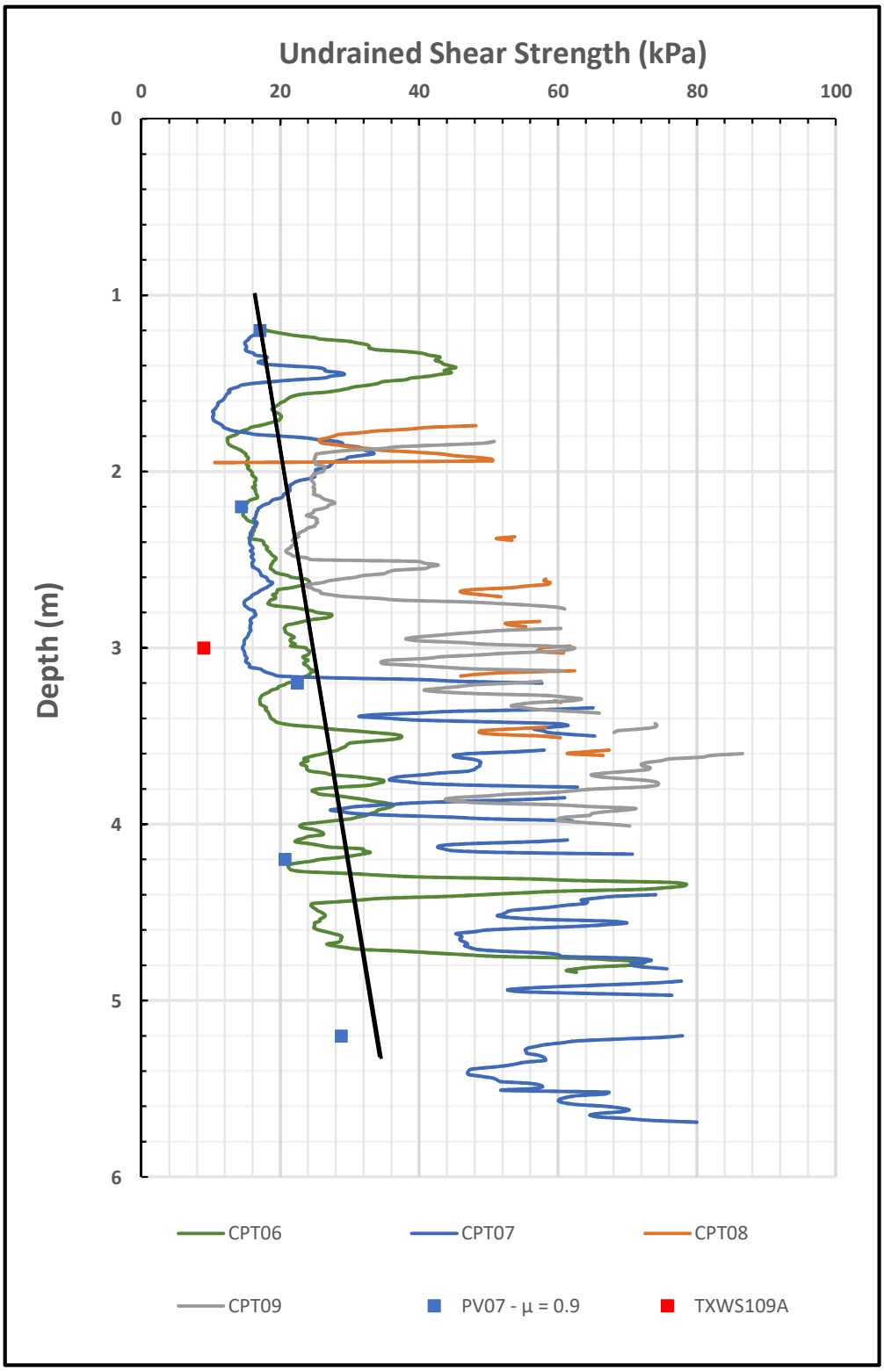


Figure 6-6

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

CPT, PV, TX - TFD - Nk* = 15 - CH. 1650 - 1960

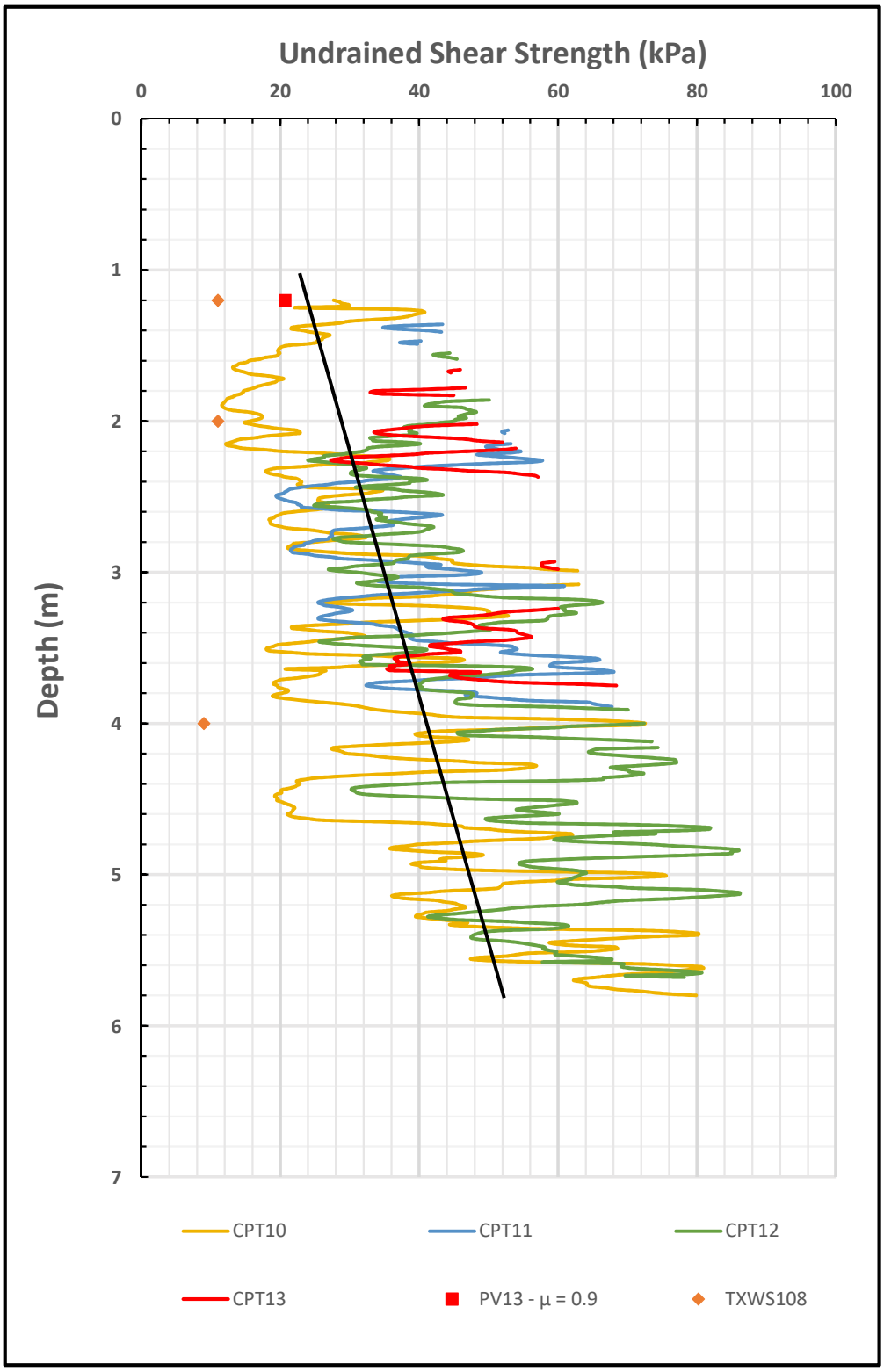


Figure 6-7

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

CPT, PV, TX - TFD - Nk* = 15 - CH. 1960 - 2200

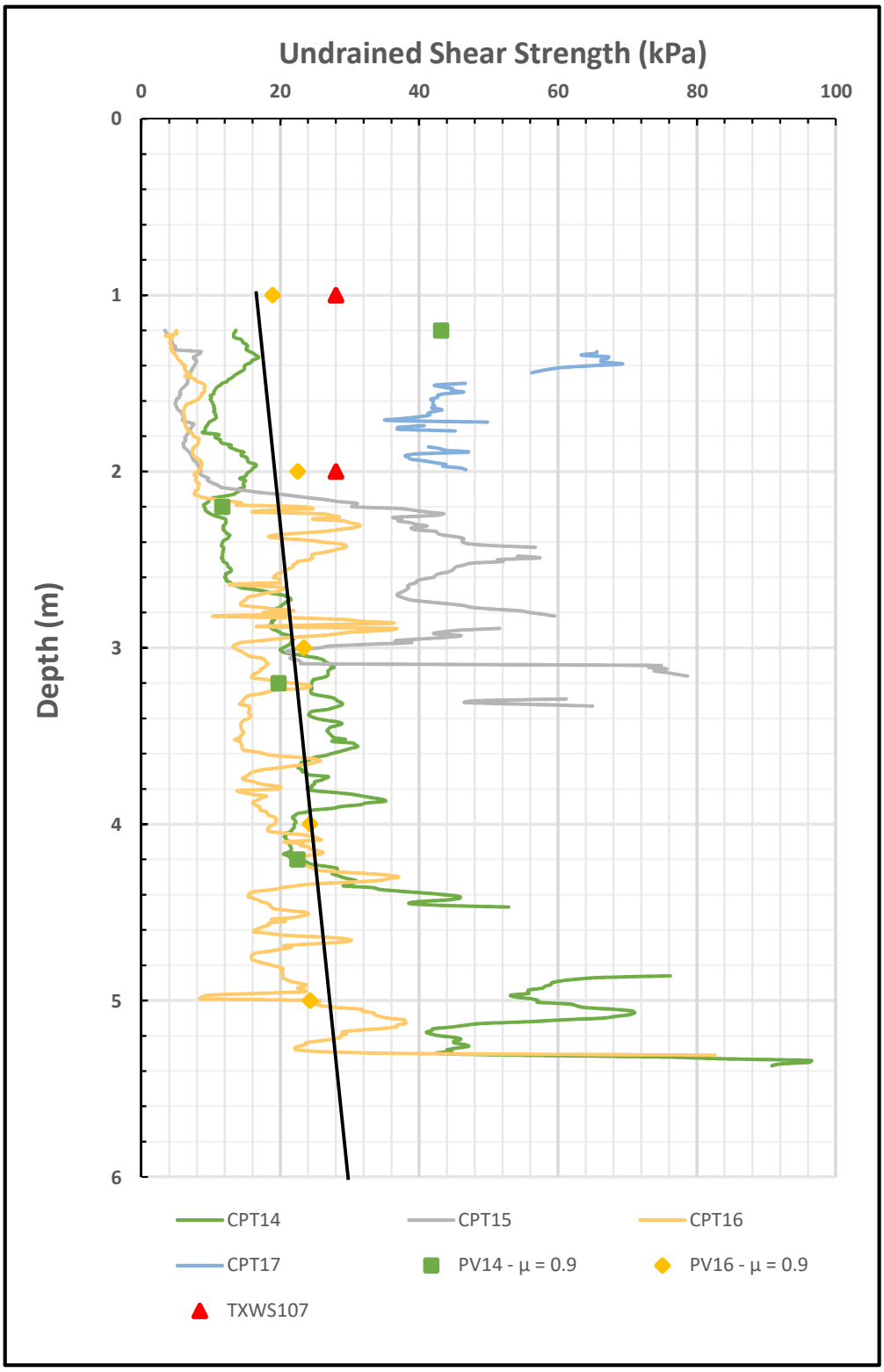


Figure 6-8

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

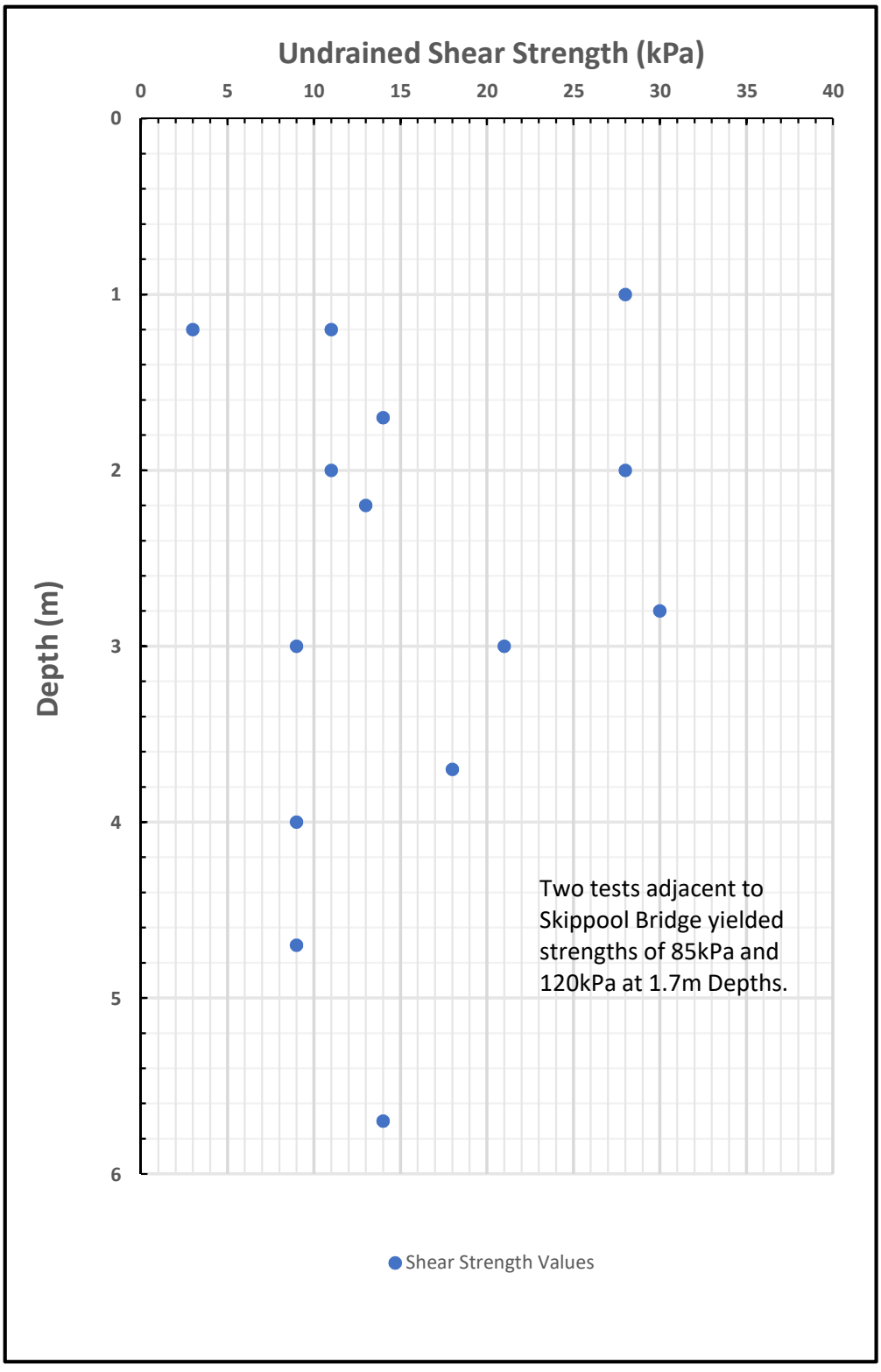


Figure 6-9

Coefficient of Compressibility Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

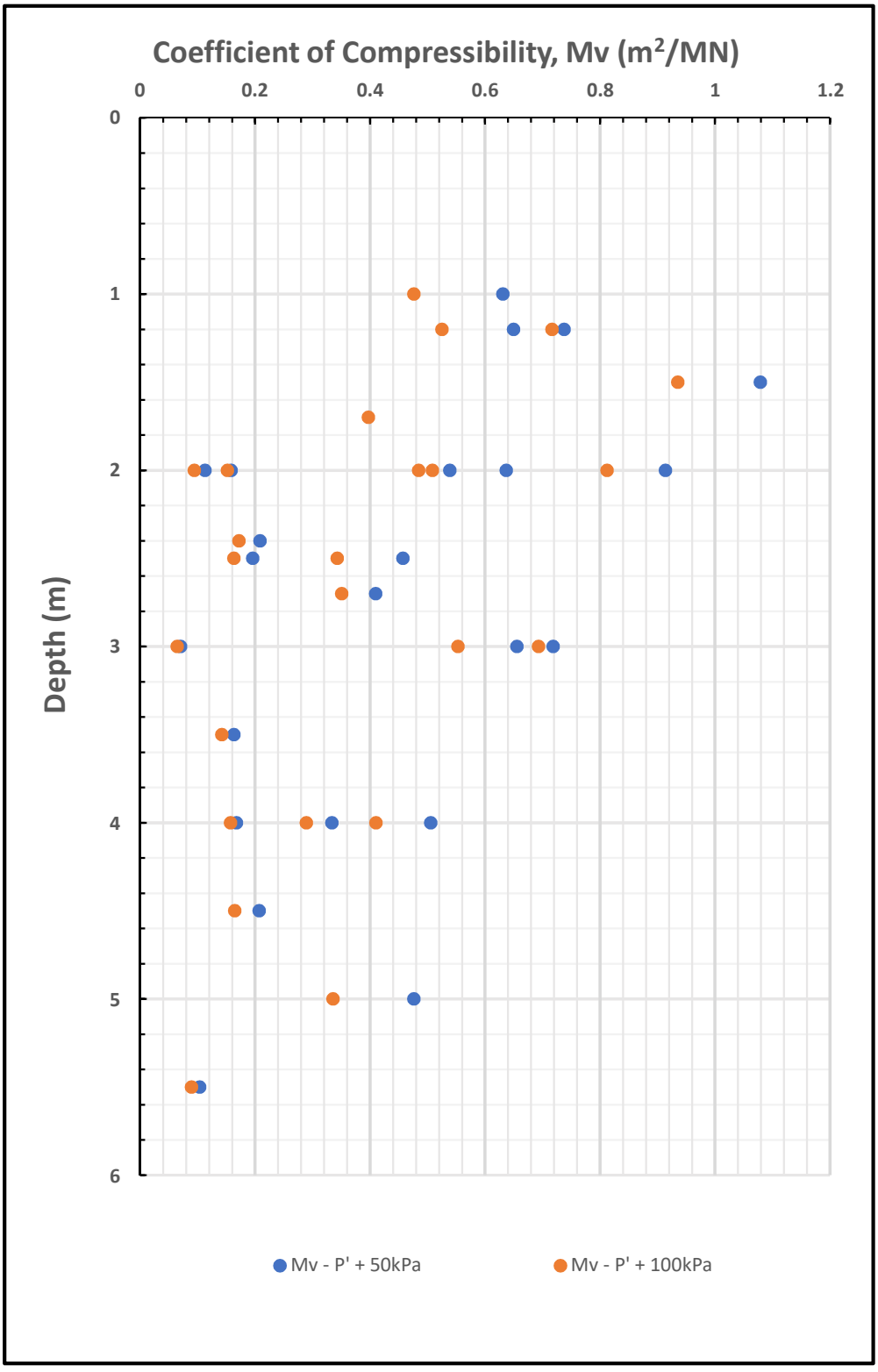


Figure 6-10

Coefficient of Compressibility Vs. N. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

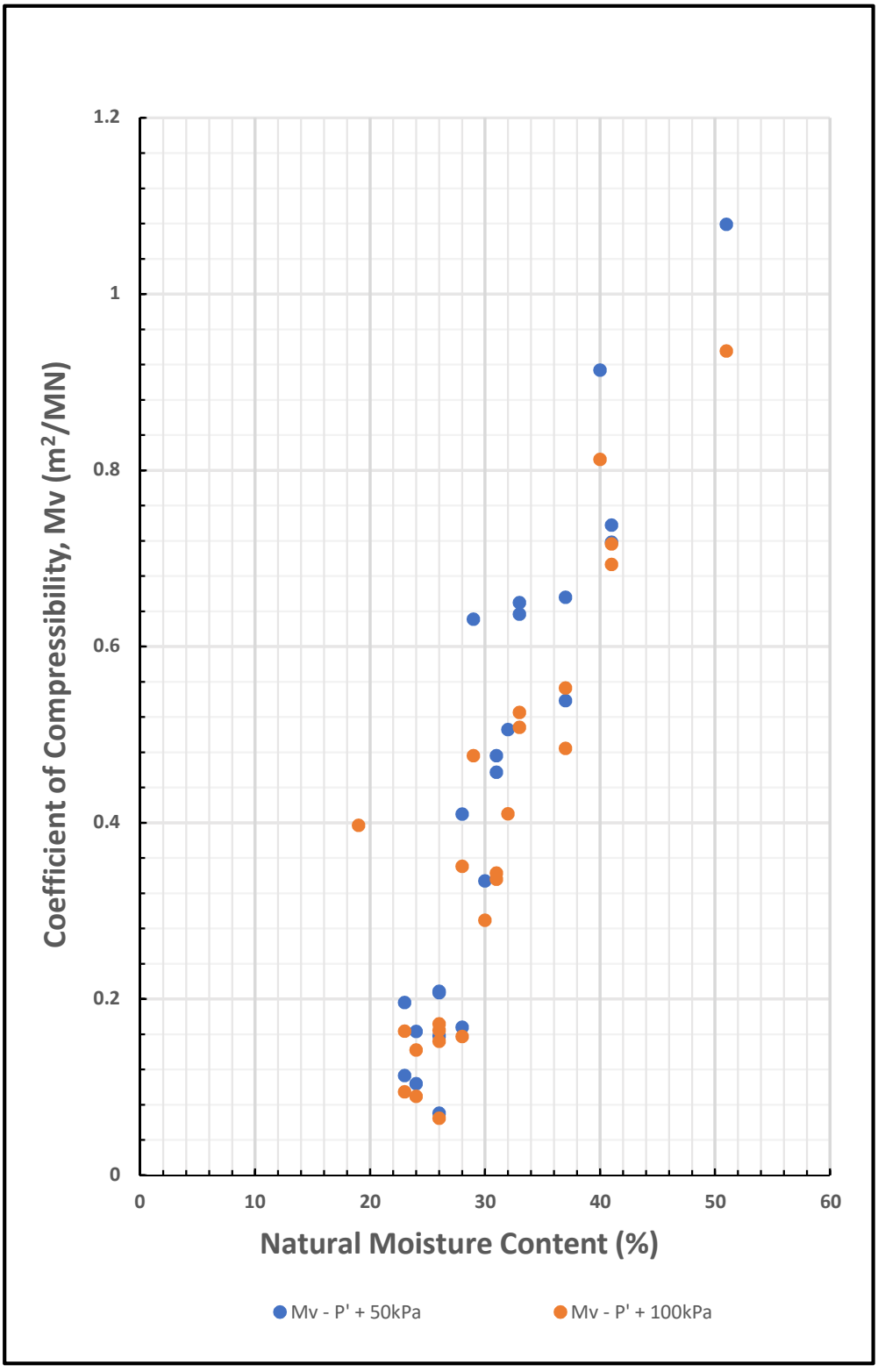


Figure 6-11

Coefficient of Consolidation Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

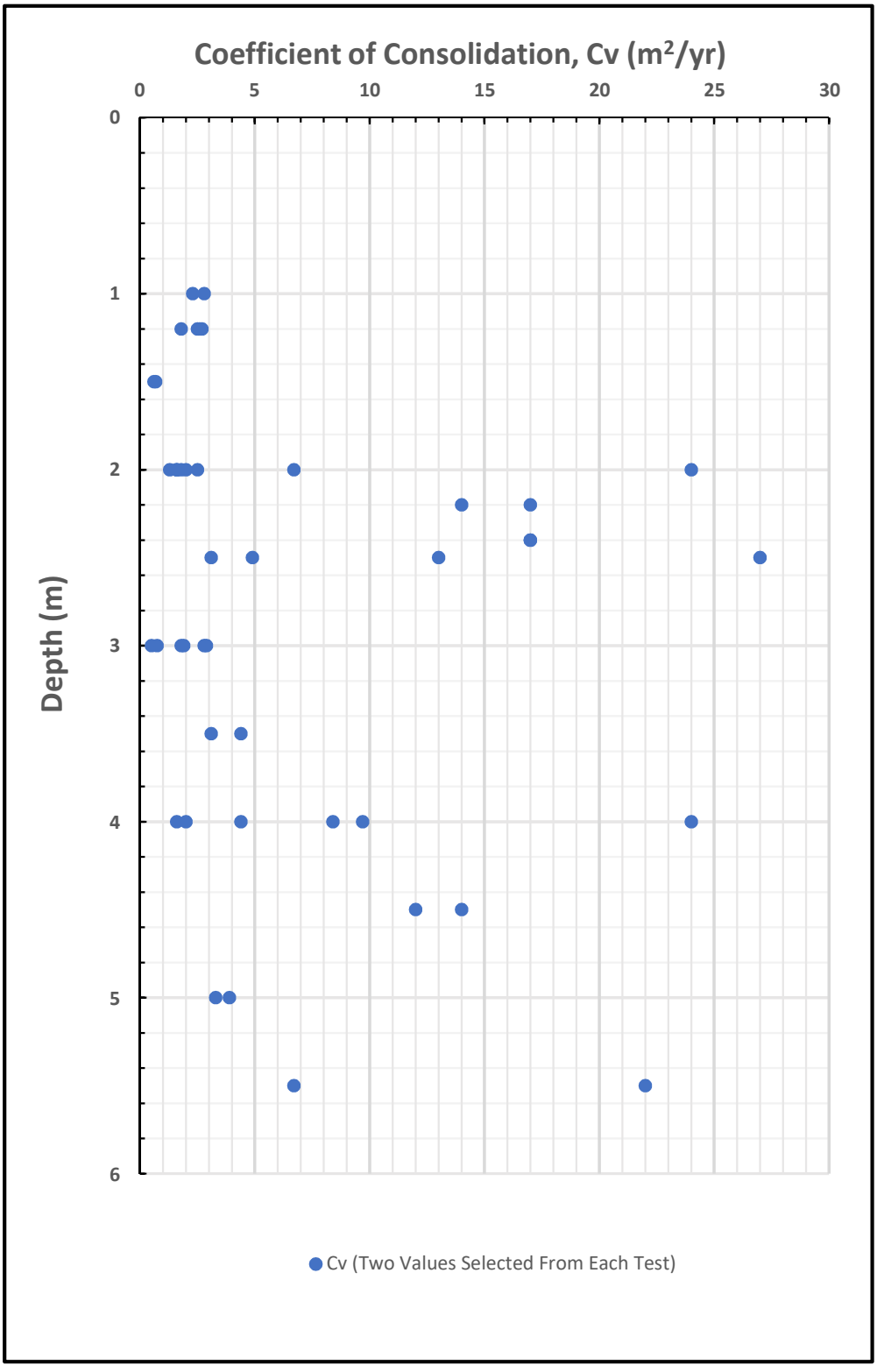
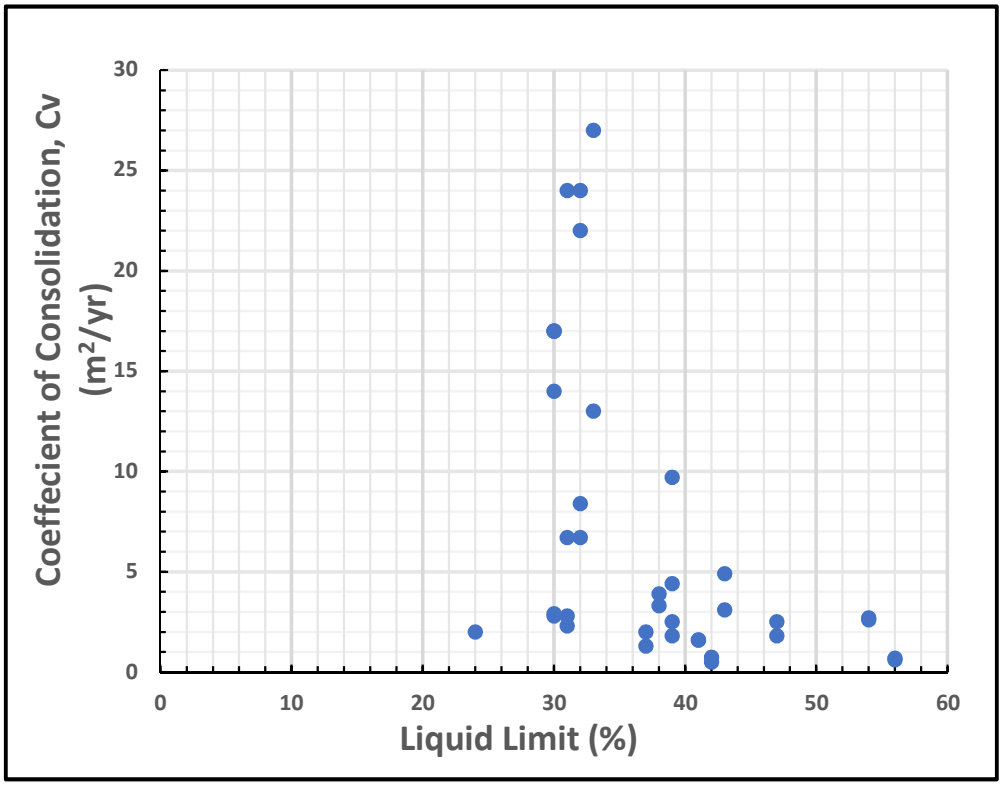


Figure 6-12

Coefficient of Consolidation Vs. MC, LL

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits



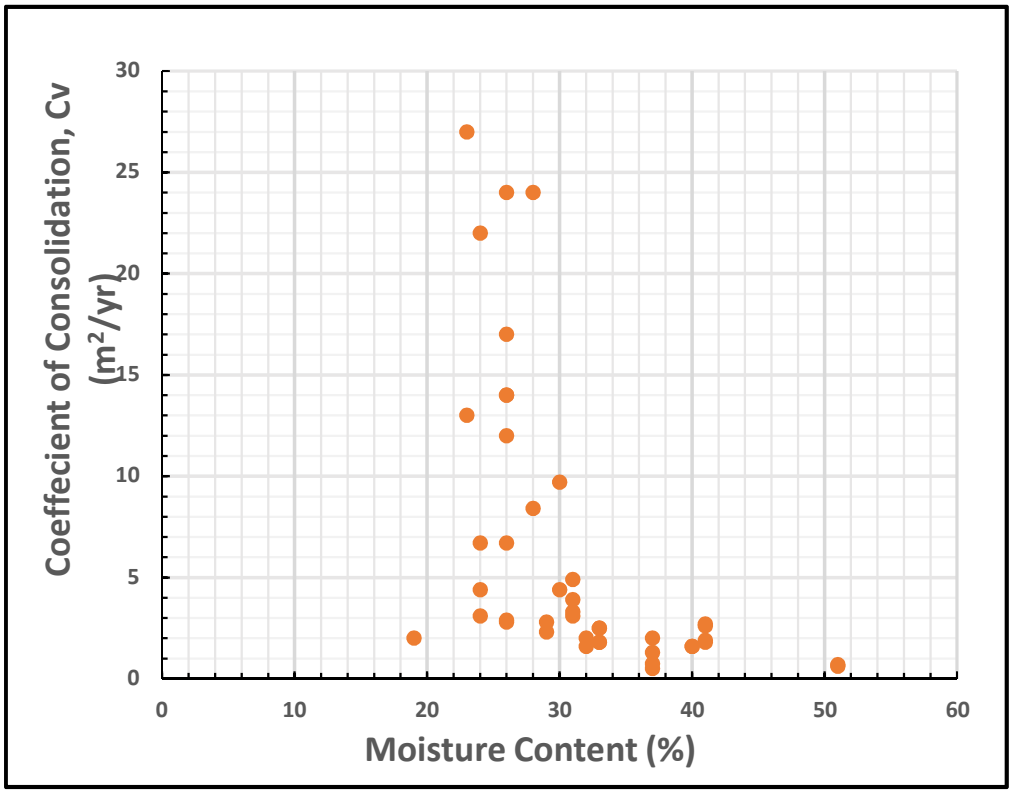


Figure 6-13

Coefficient of Consolidation Vs. Applied Pressure

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

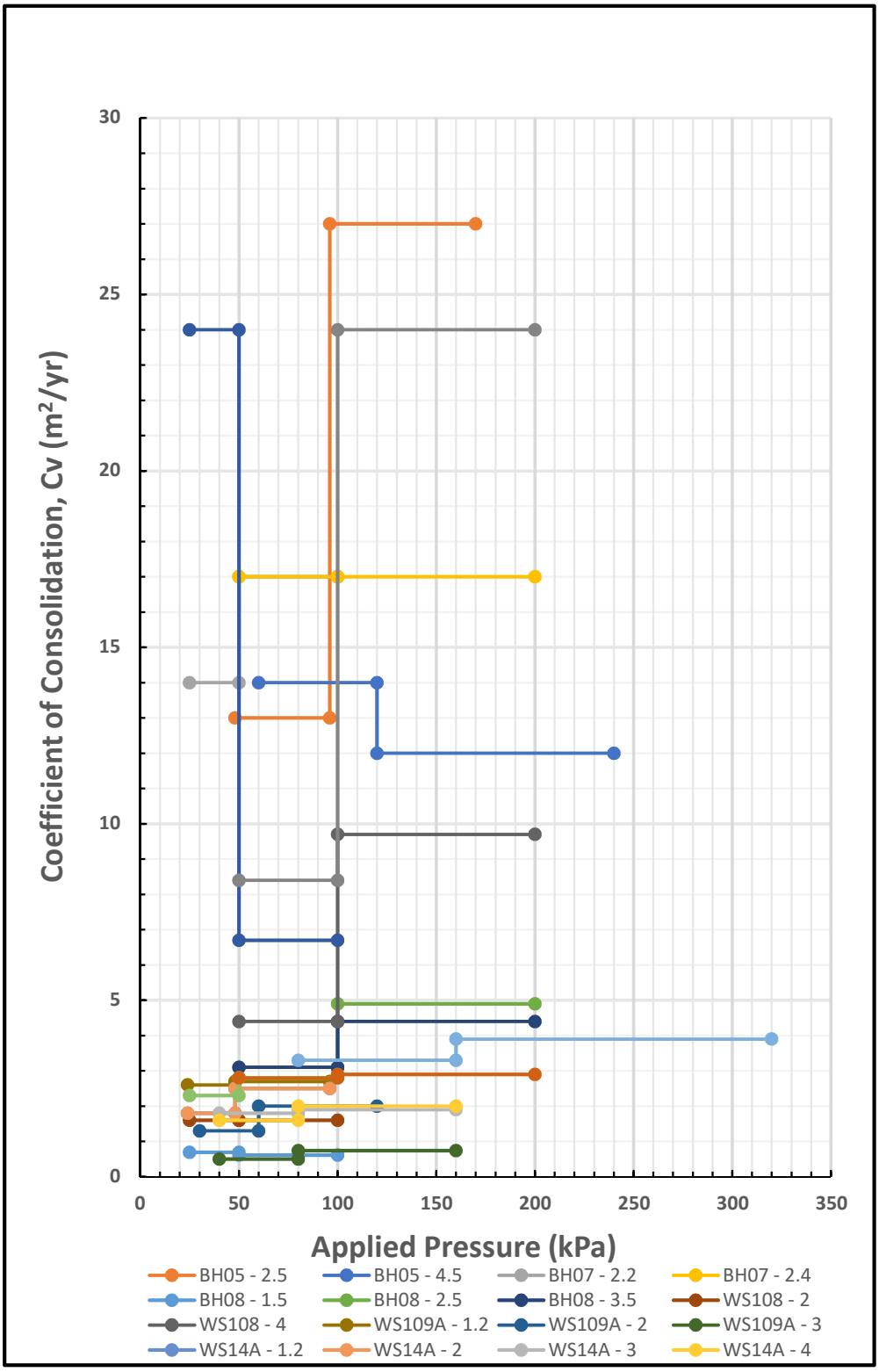


Figure 6-14

Effective Stress Parameters

highways england

UA008015 - A585 Windy Harbour to Skippool

Tidal Flat Deposits

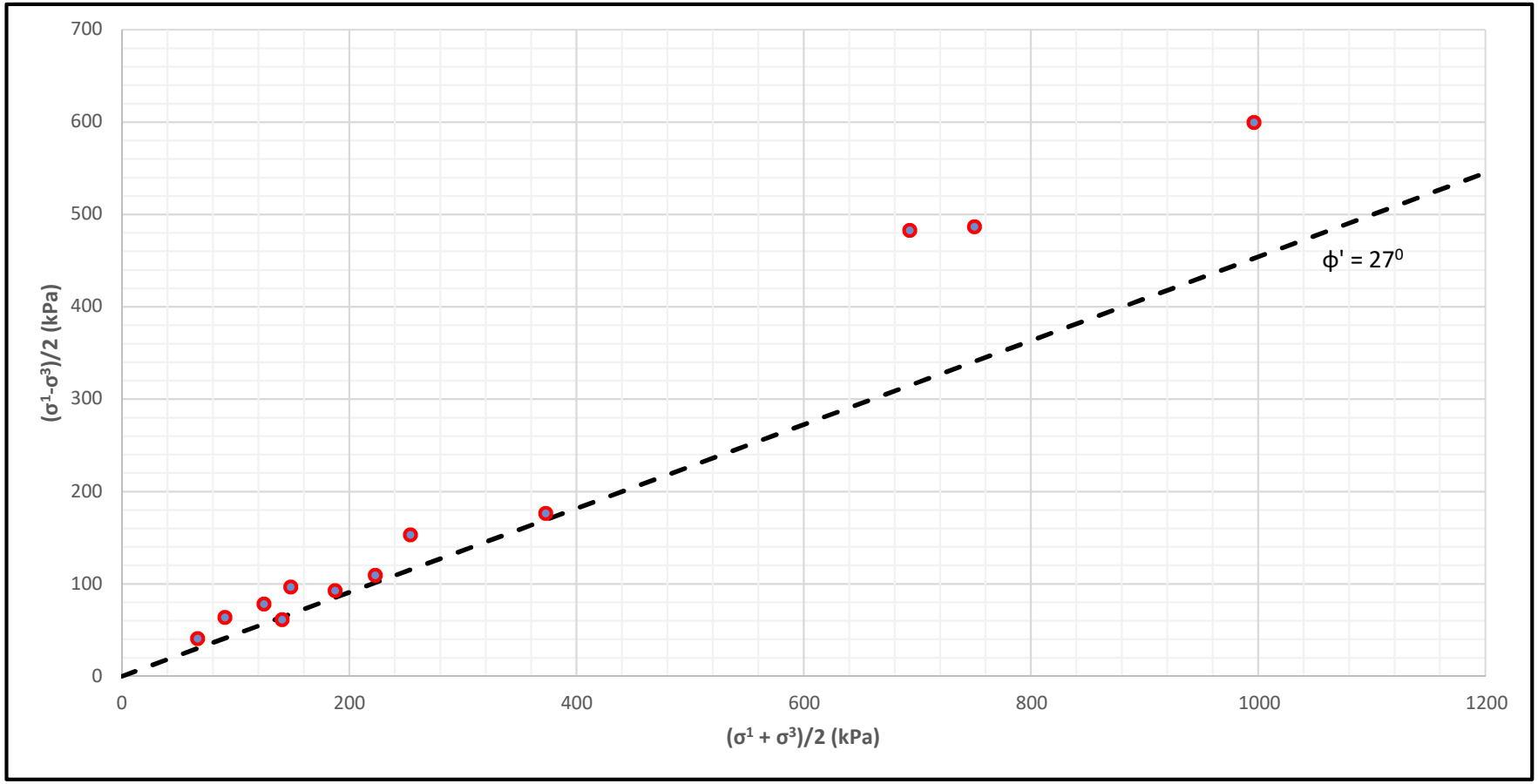


Figure 6-15

Particle Size Distribution

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

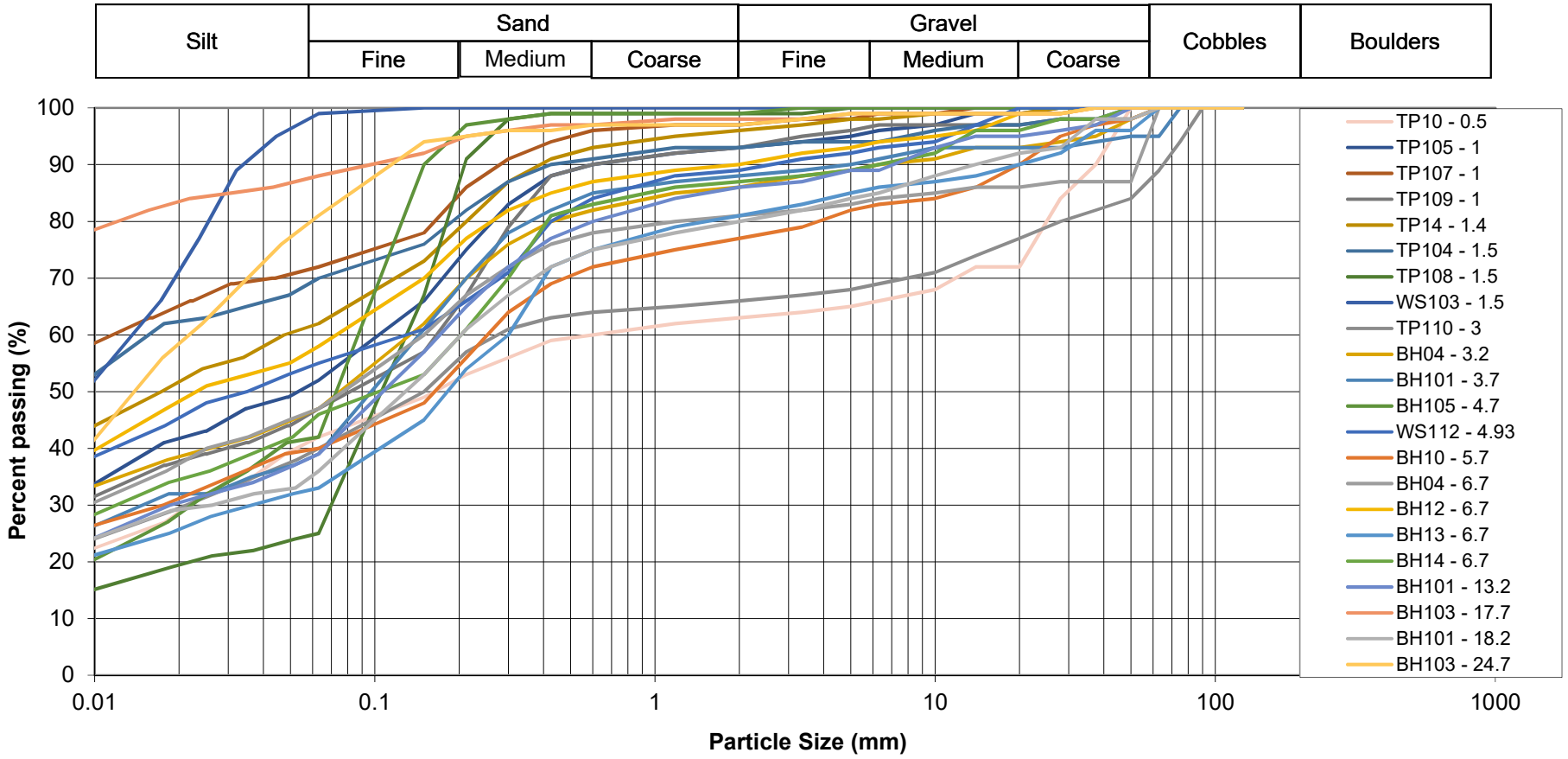


Figure 6-16

Bulk Density Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

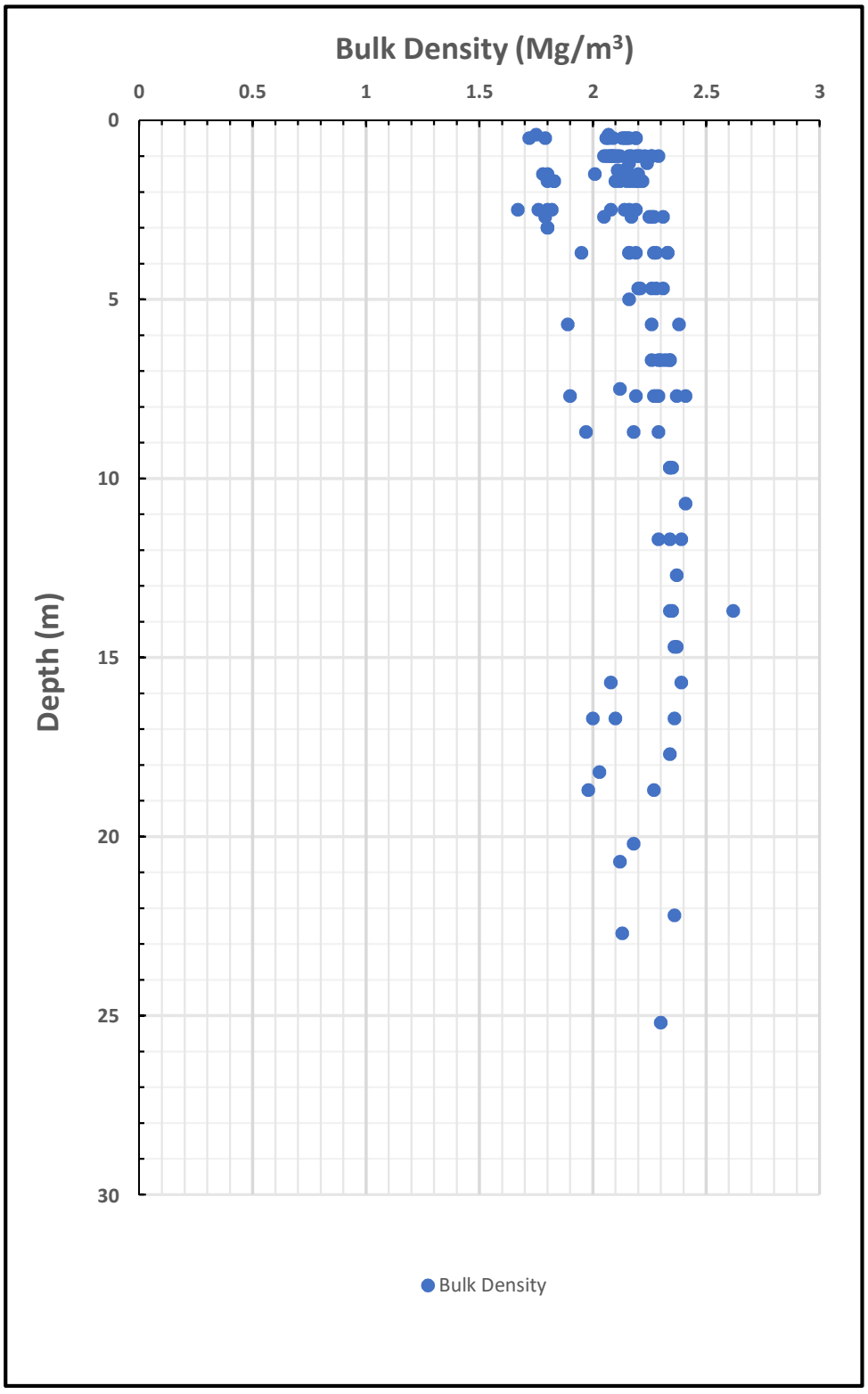


Figure 6-17

Moisture Content Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

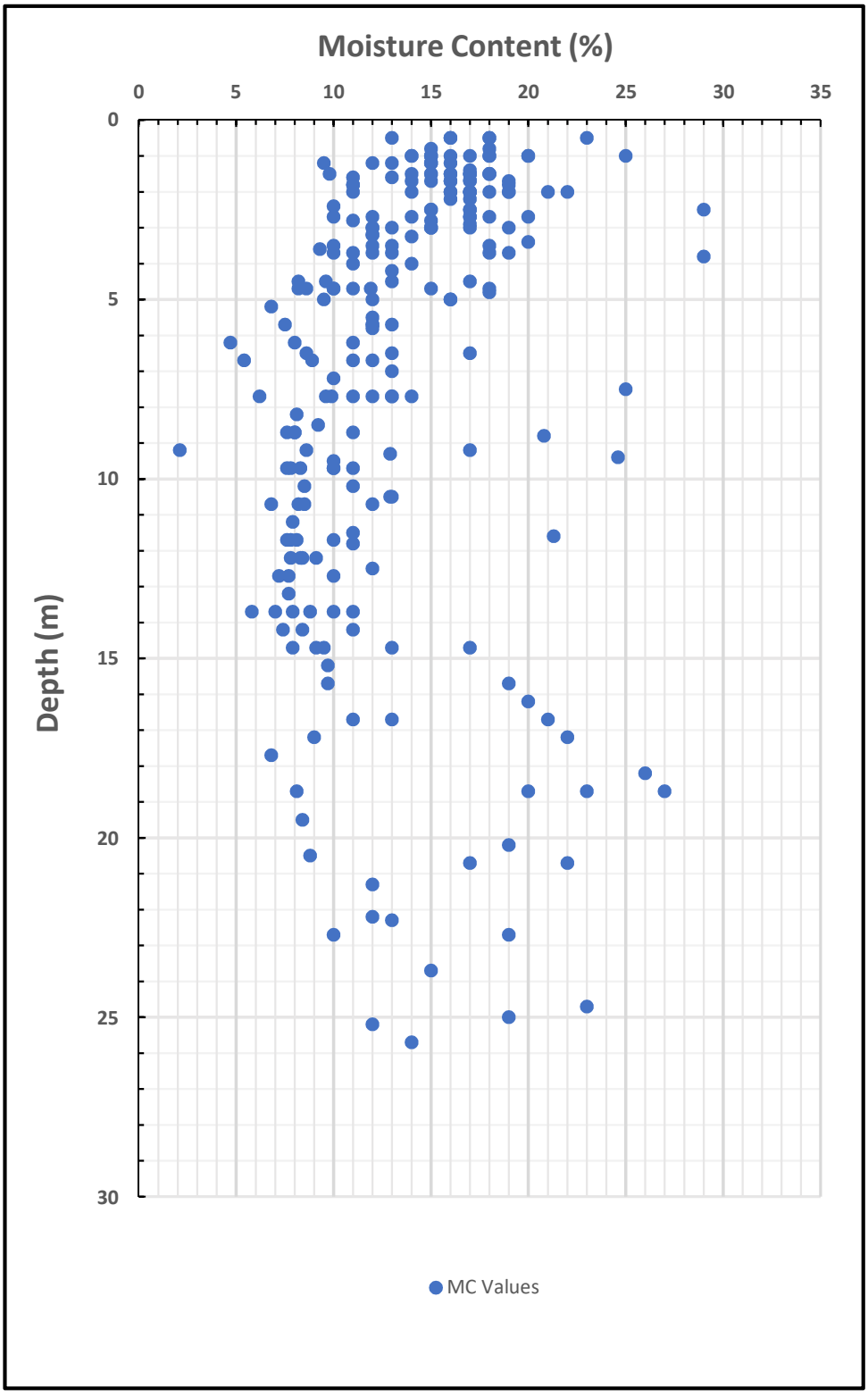


Figure 6-18

Atterberg 'A' Line Plot

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

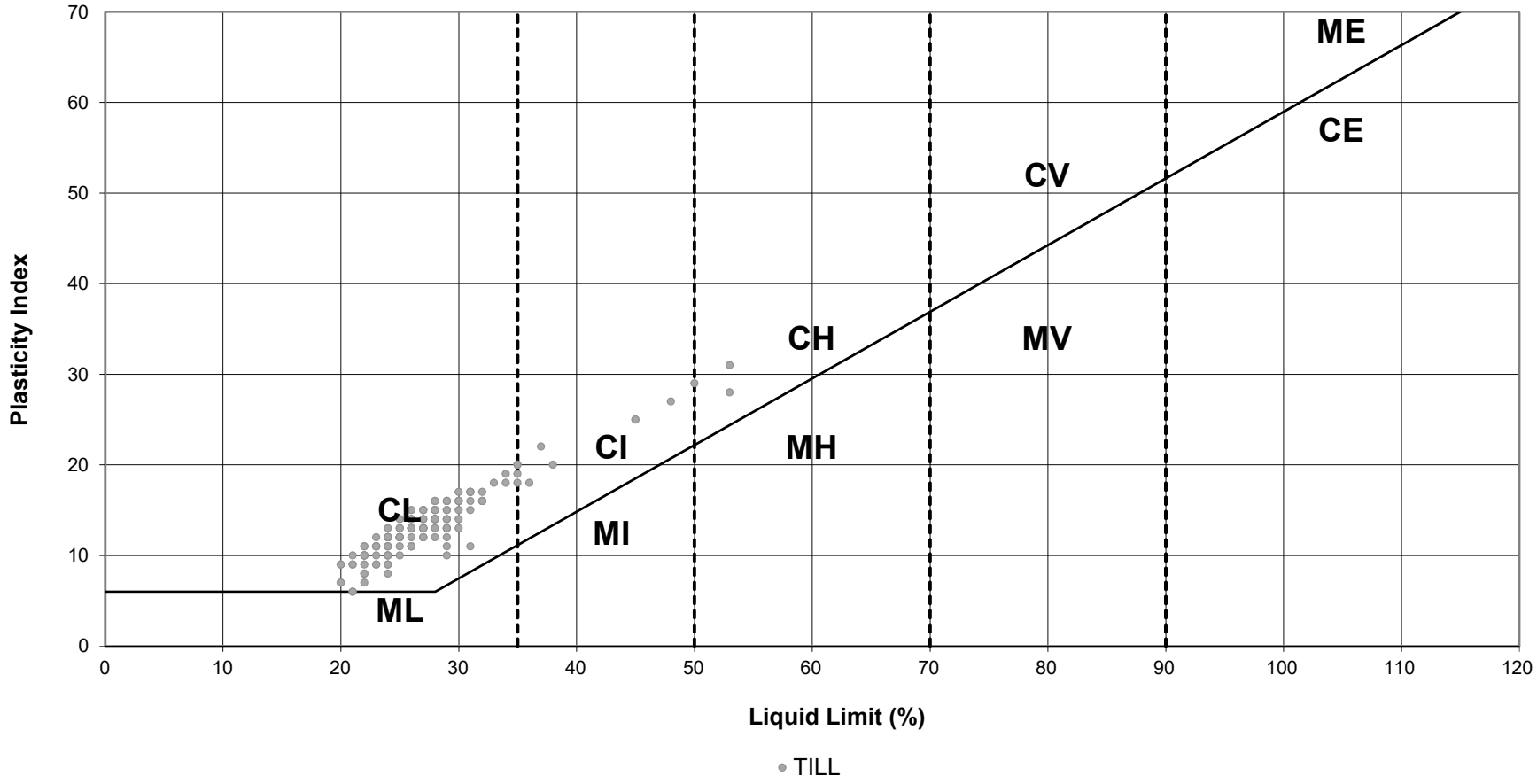


Figure 6-19

Liquidity Index Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

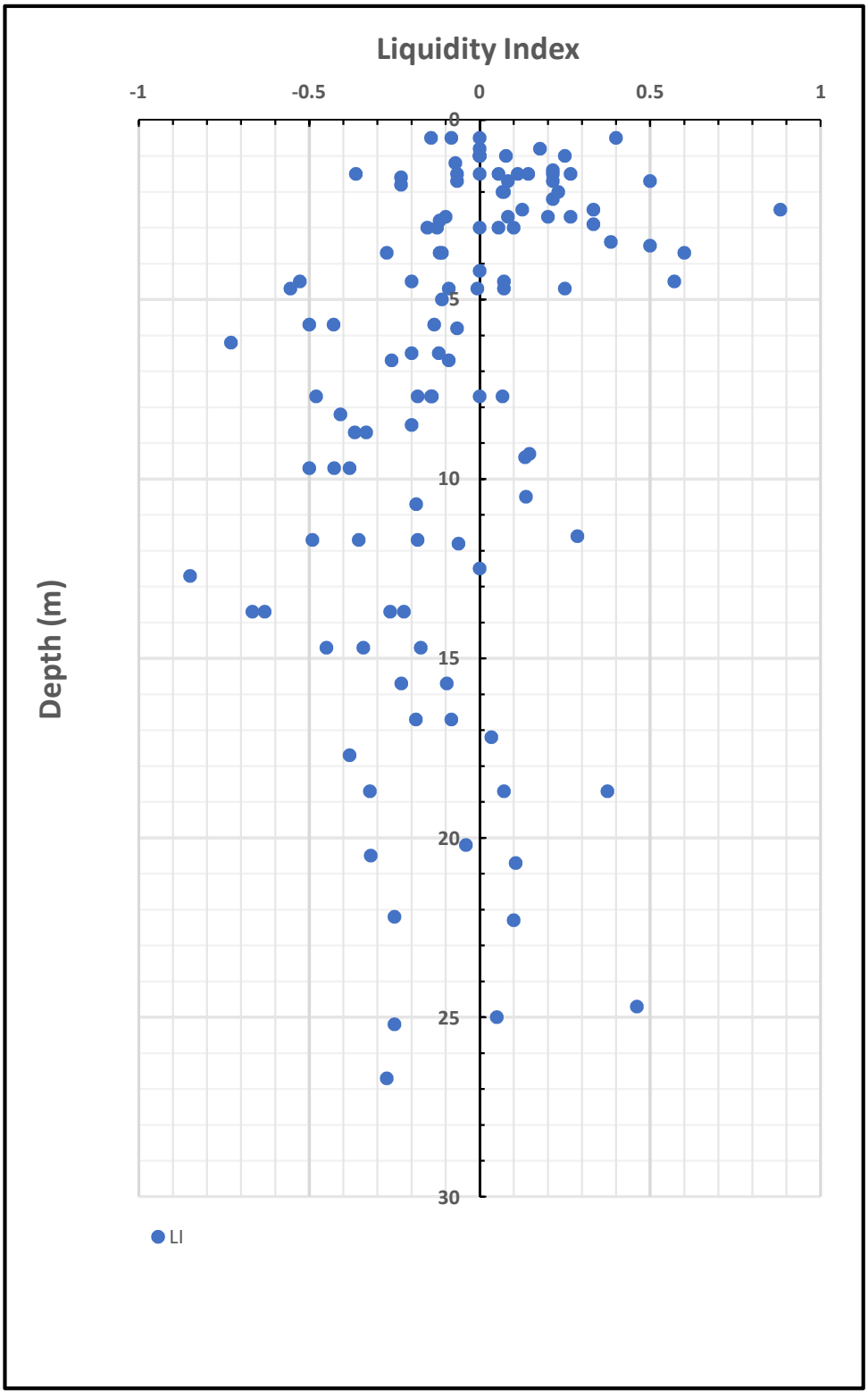


Figure 6-20

SPT 'N' Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

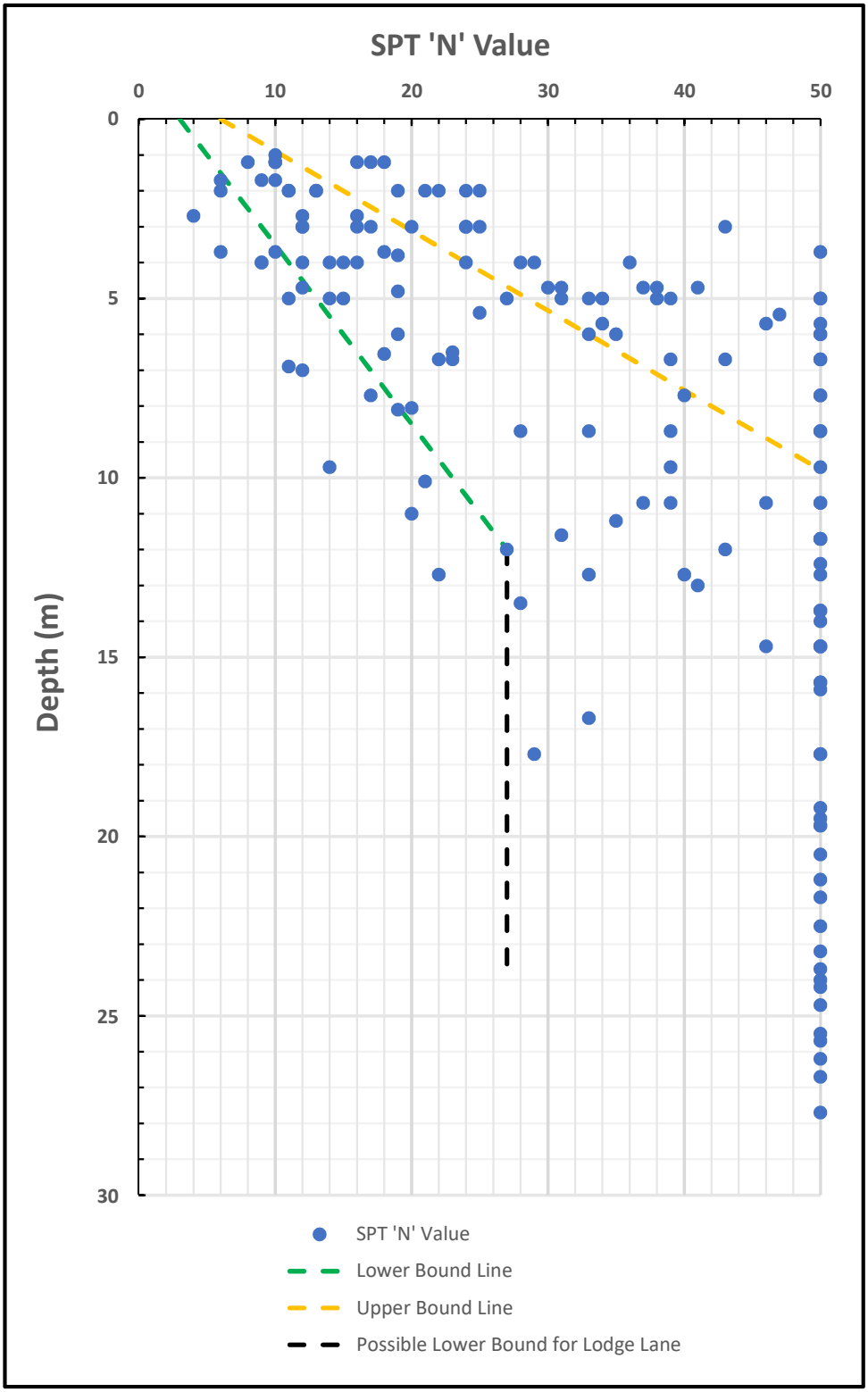


Figure 6-21

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

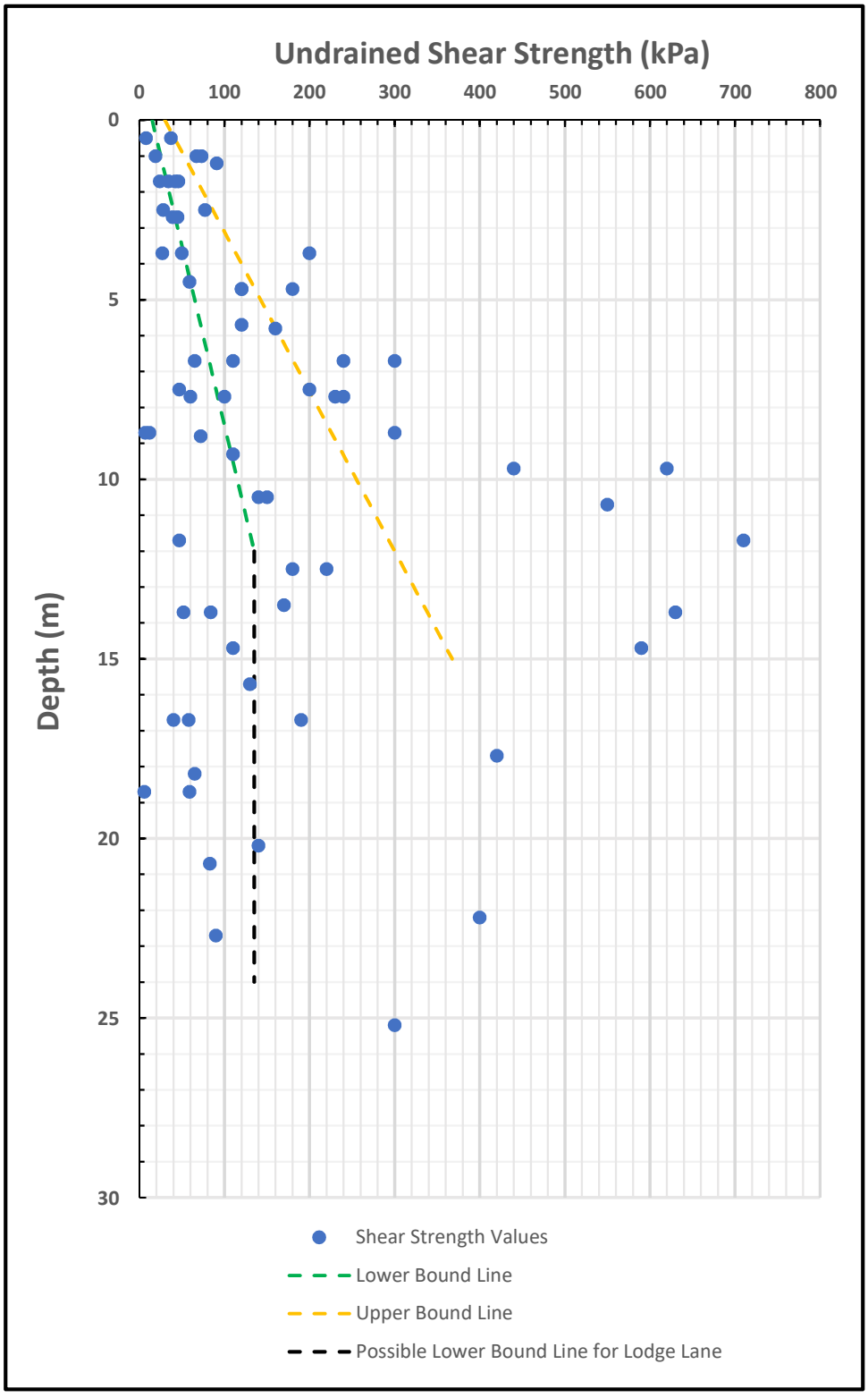


Figure 6-22

Undrained Shear Strength Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

CPT Cu - TILL - Nk* = 20 - CH. 2220 - 2350

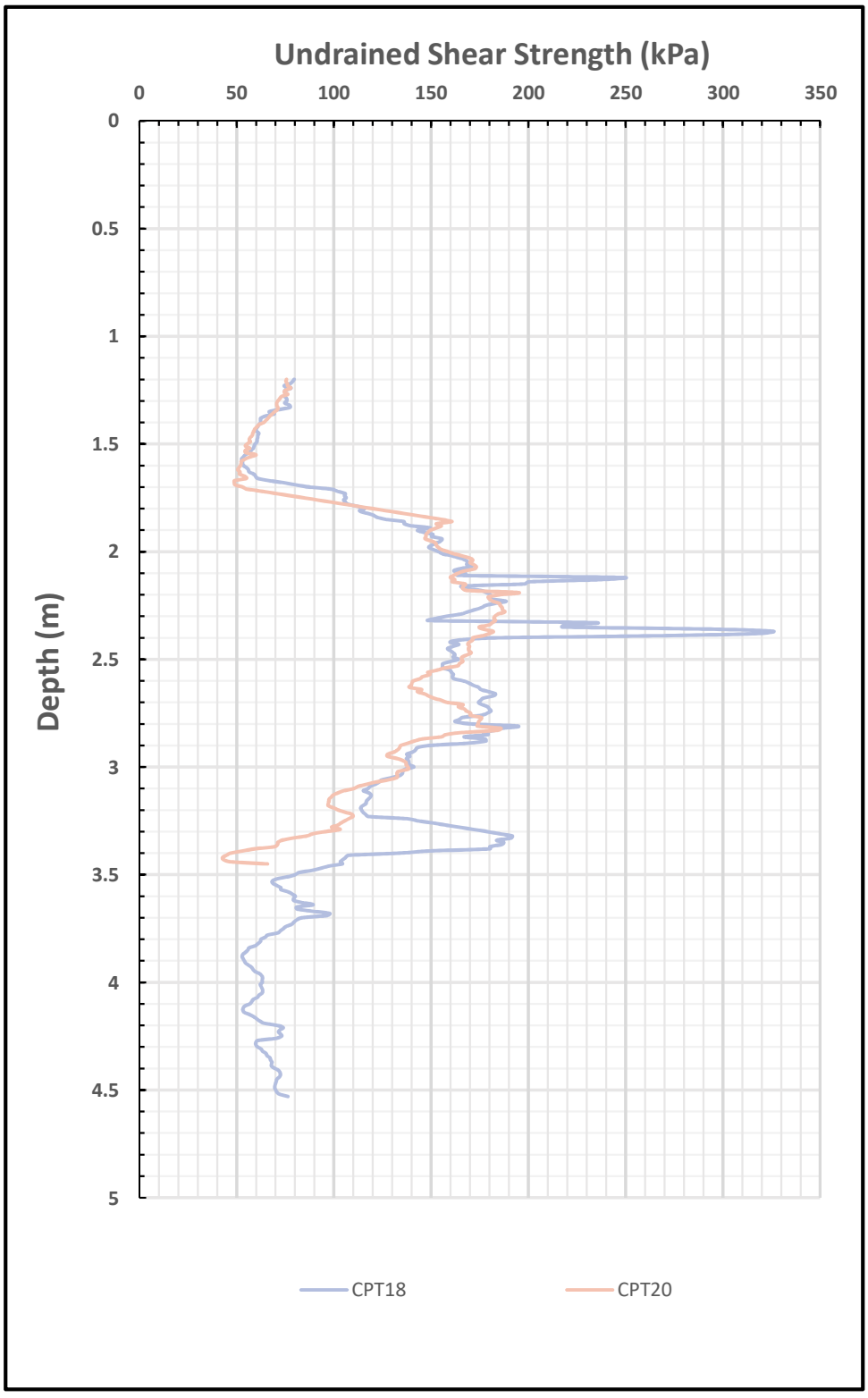


Figure 6-23

Coefficient of Compressibility Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

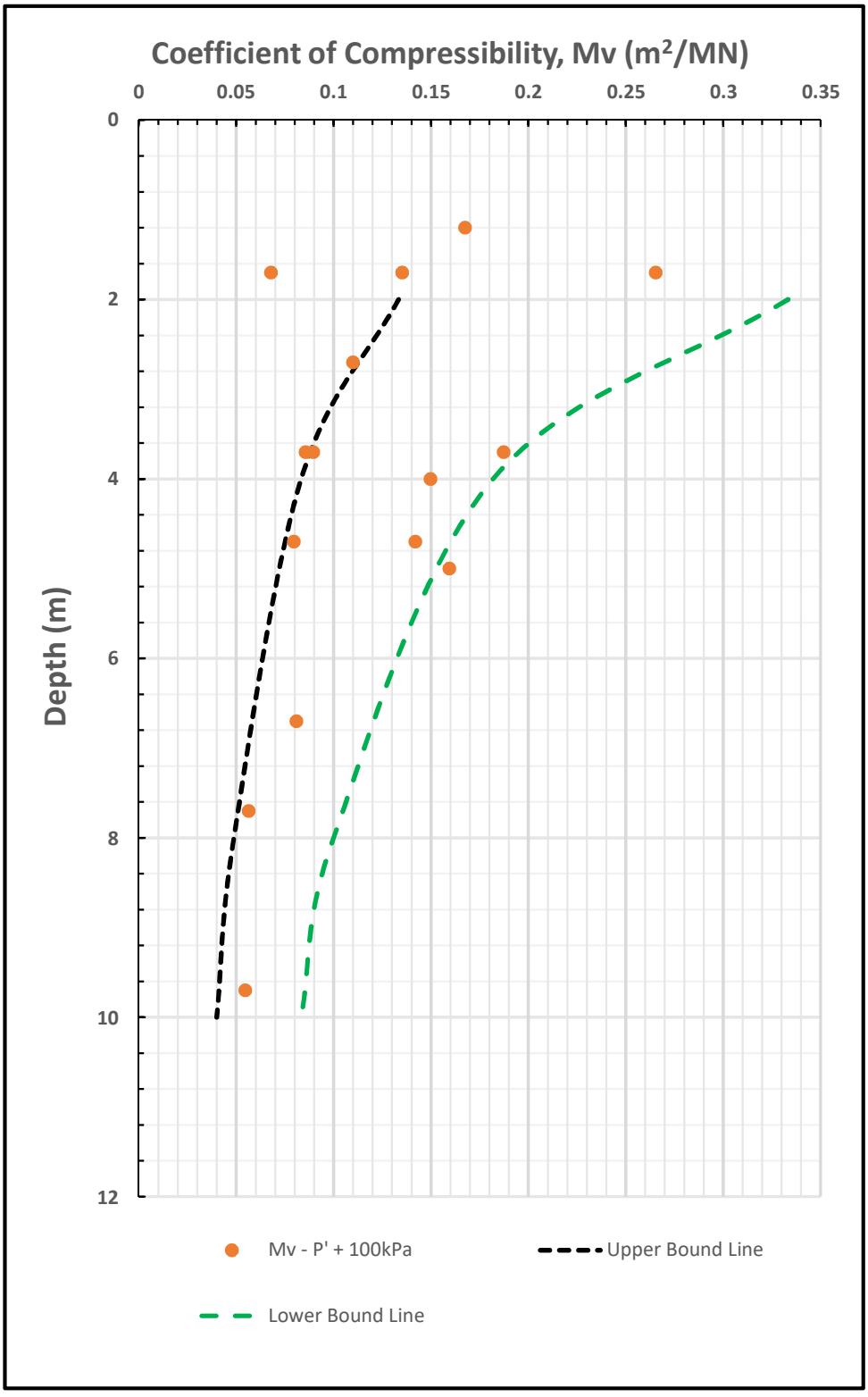


Figure 6-24

Effective Stress Parameters

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

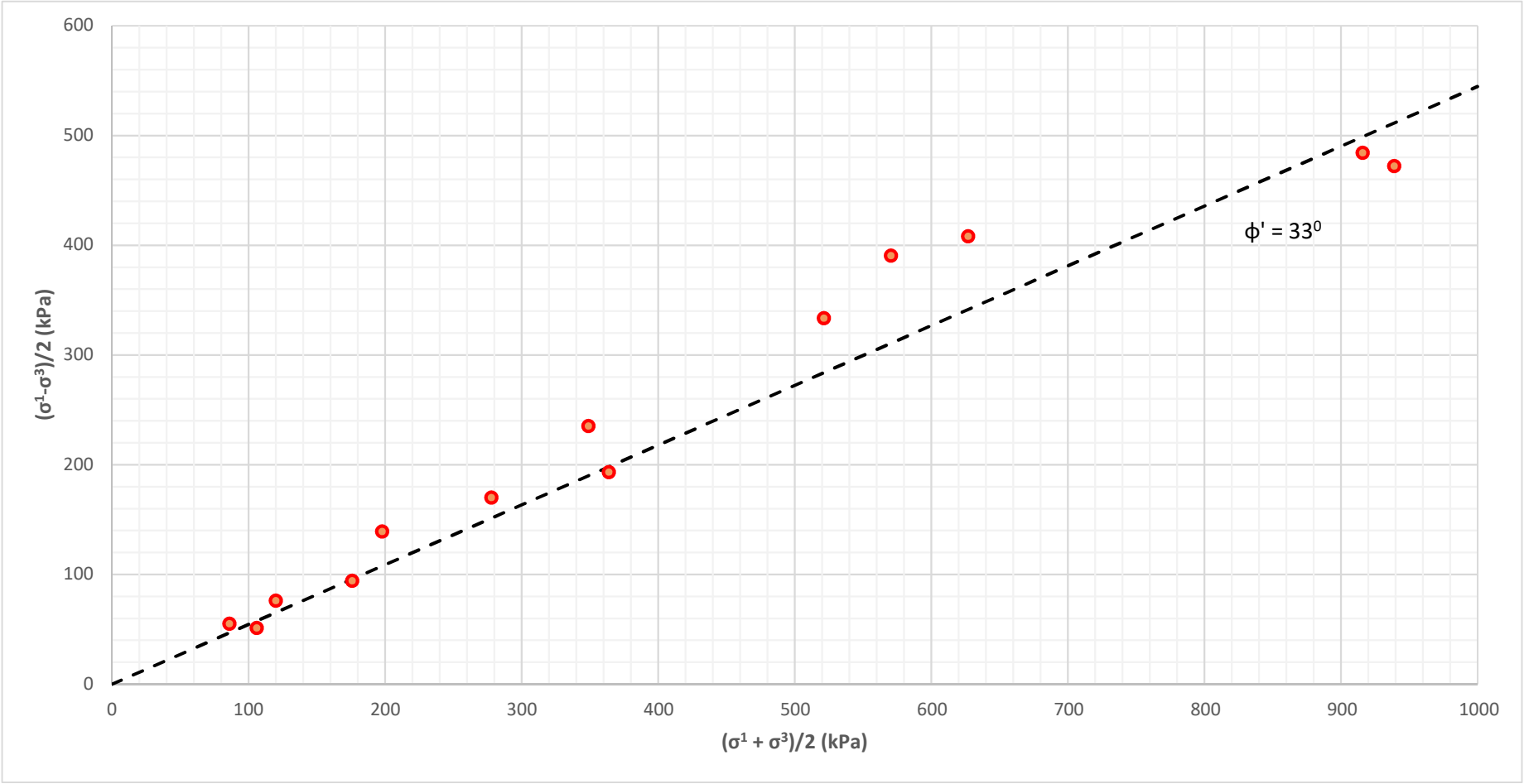


Figure 6-25

Undrained Shear Strength Vs. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

TILL - TP109 - B12 - 1m to 2m (Calibration)

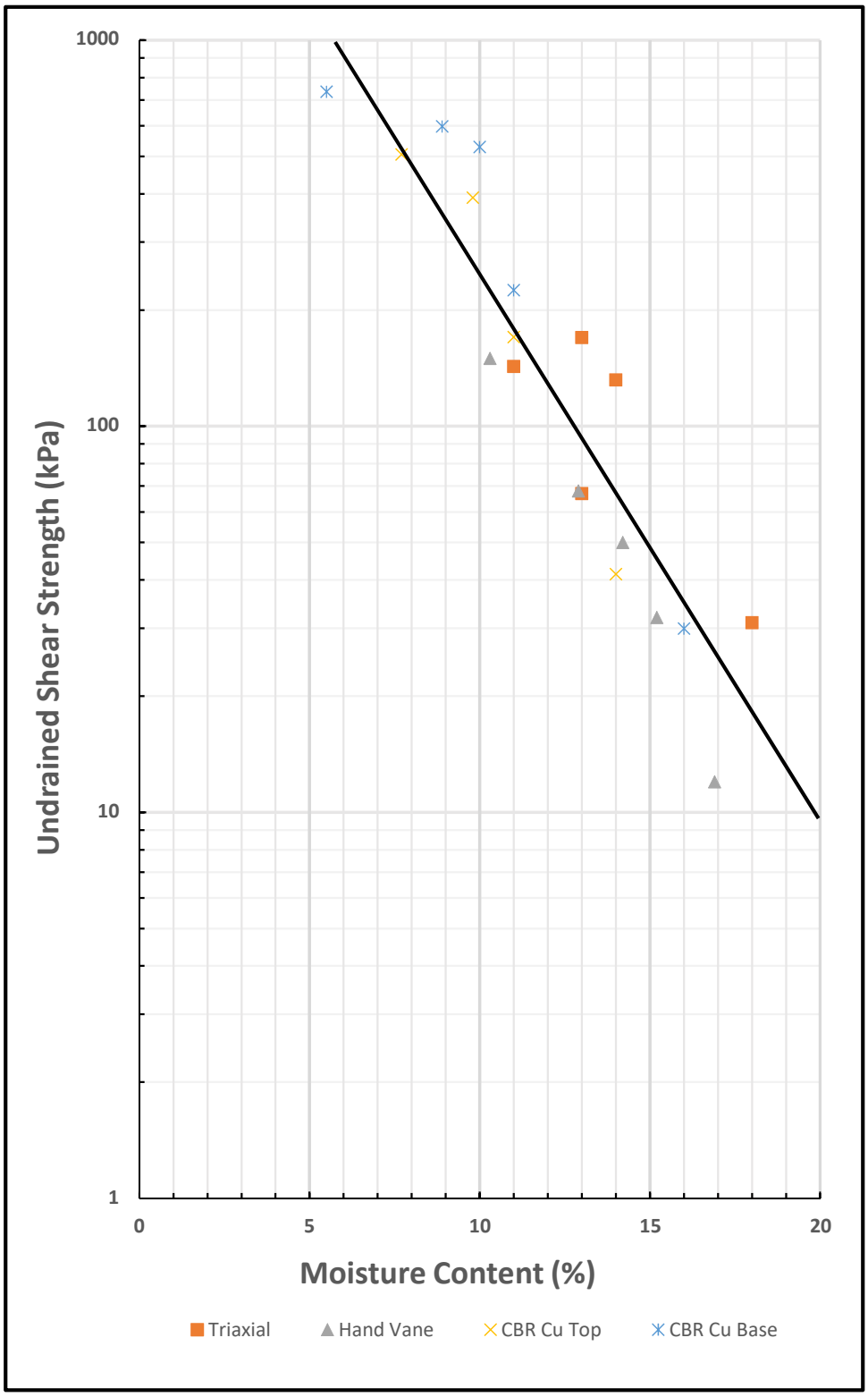


Figure 6-26

Undrained Shear Strength Vs. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

TILL - TP107 - B19 - 1m to 3.5m (Calibration)

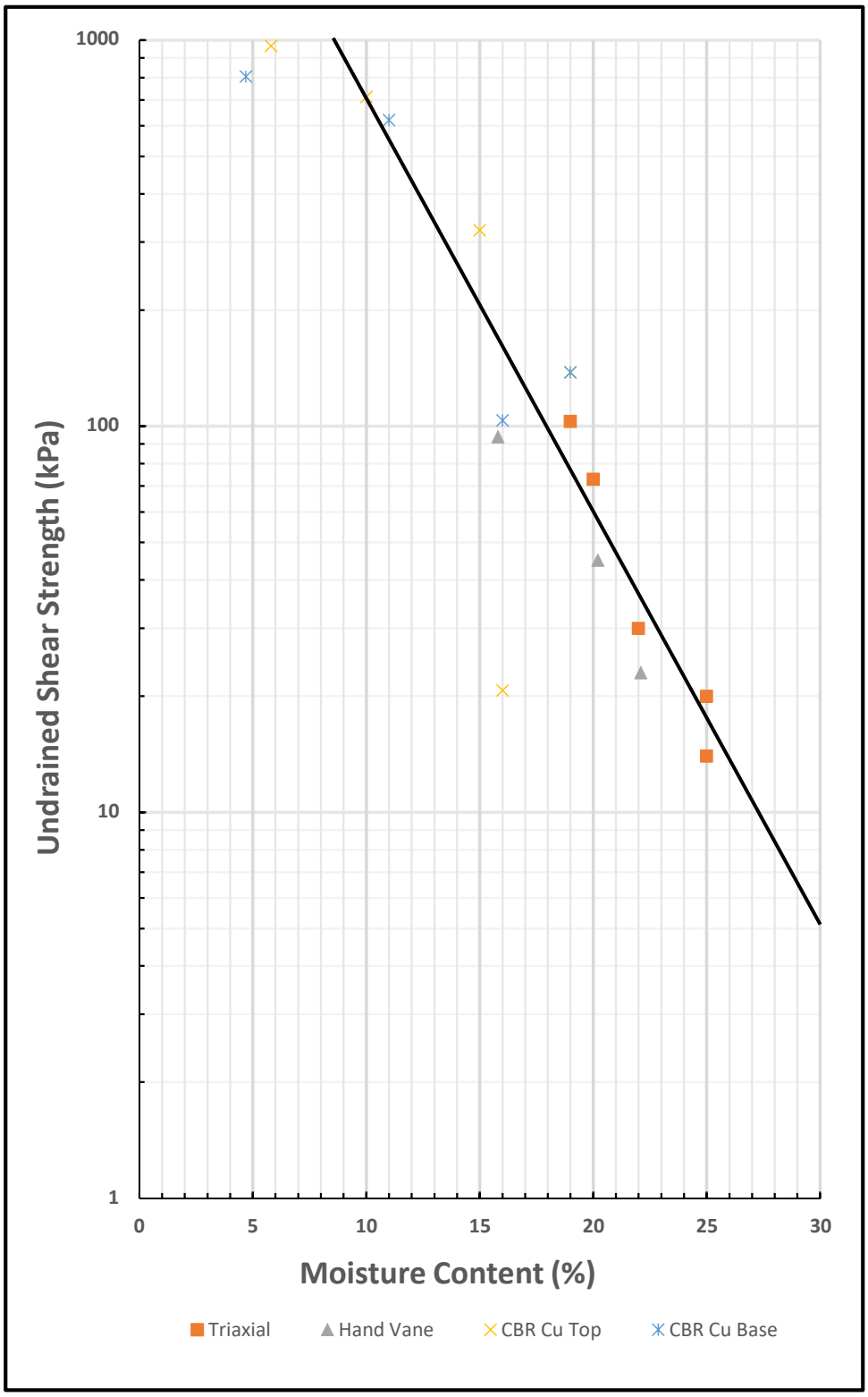


Figure 6-27

Undrained Shear Strength Vs. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

TILL - TP105 - B14 - 1m to 2m (Calibration)

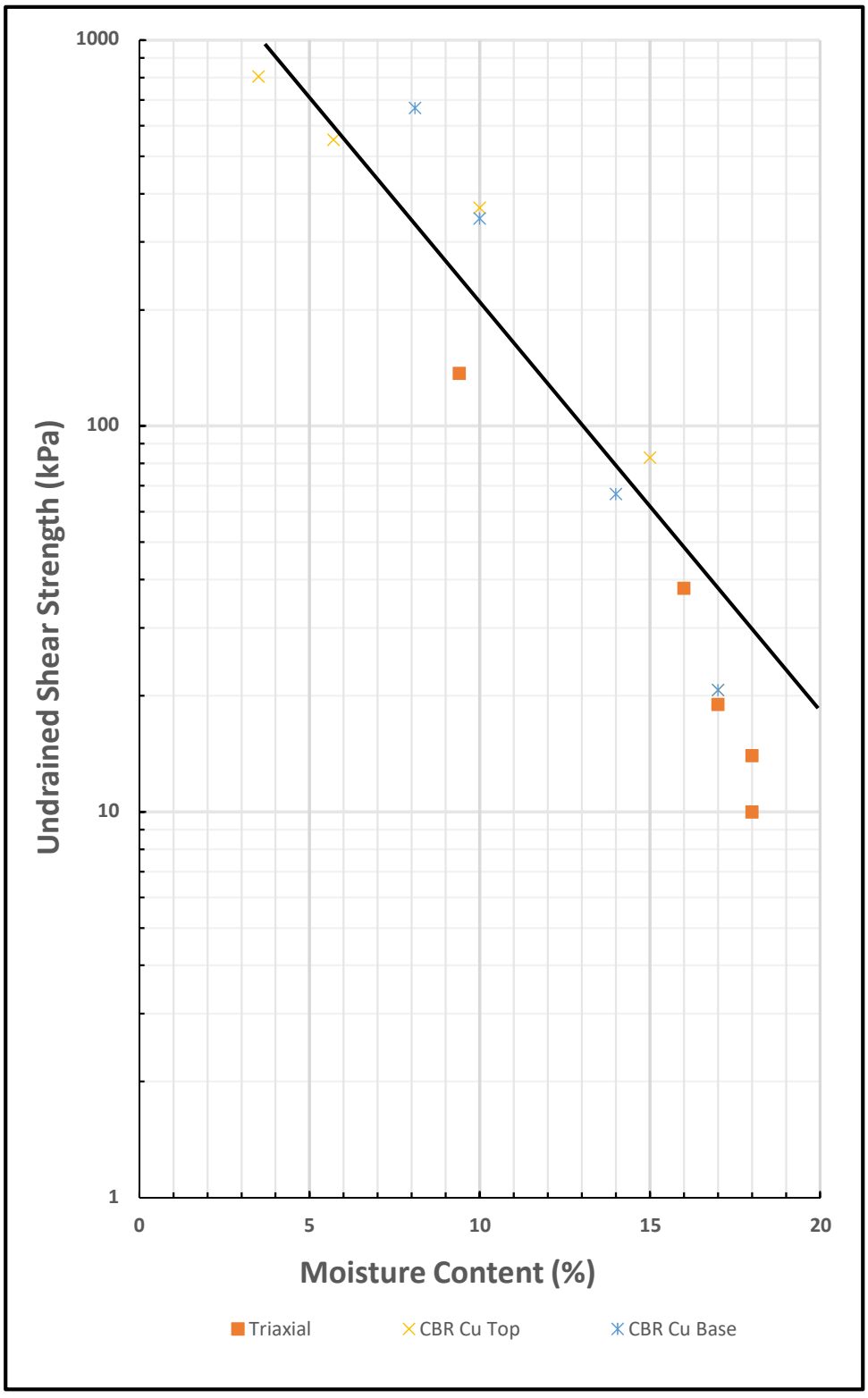


Figure 6-28

MCV Vs. Moisture Content

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP109 - B12 - 1m to 2m (Calibration)

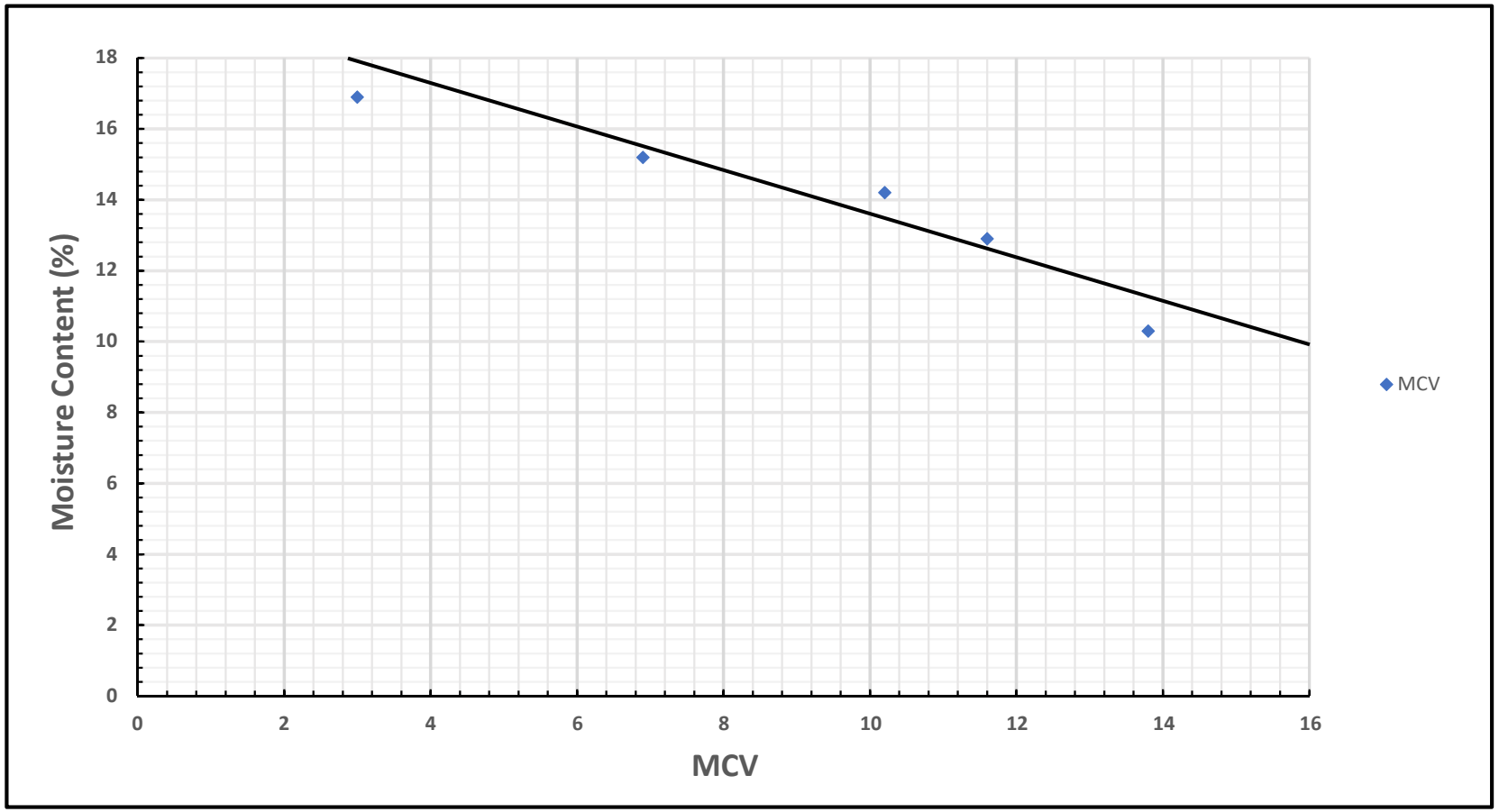


Figure 6-29

MCV Vs. Moisture Content

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP107 - B19 - 1m to 3.5m (Calibration)

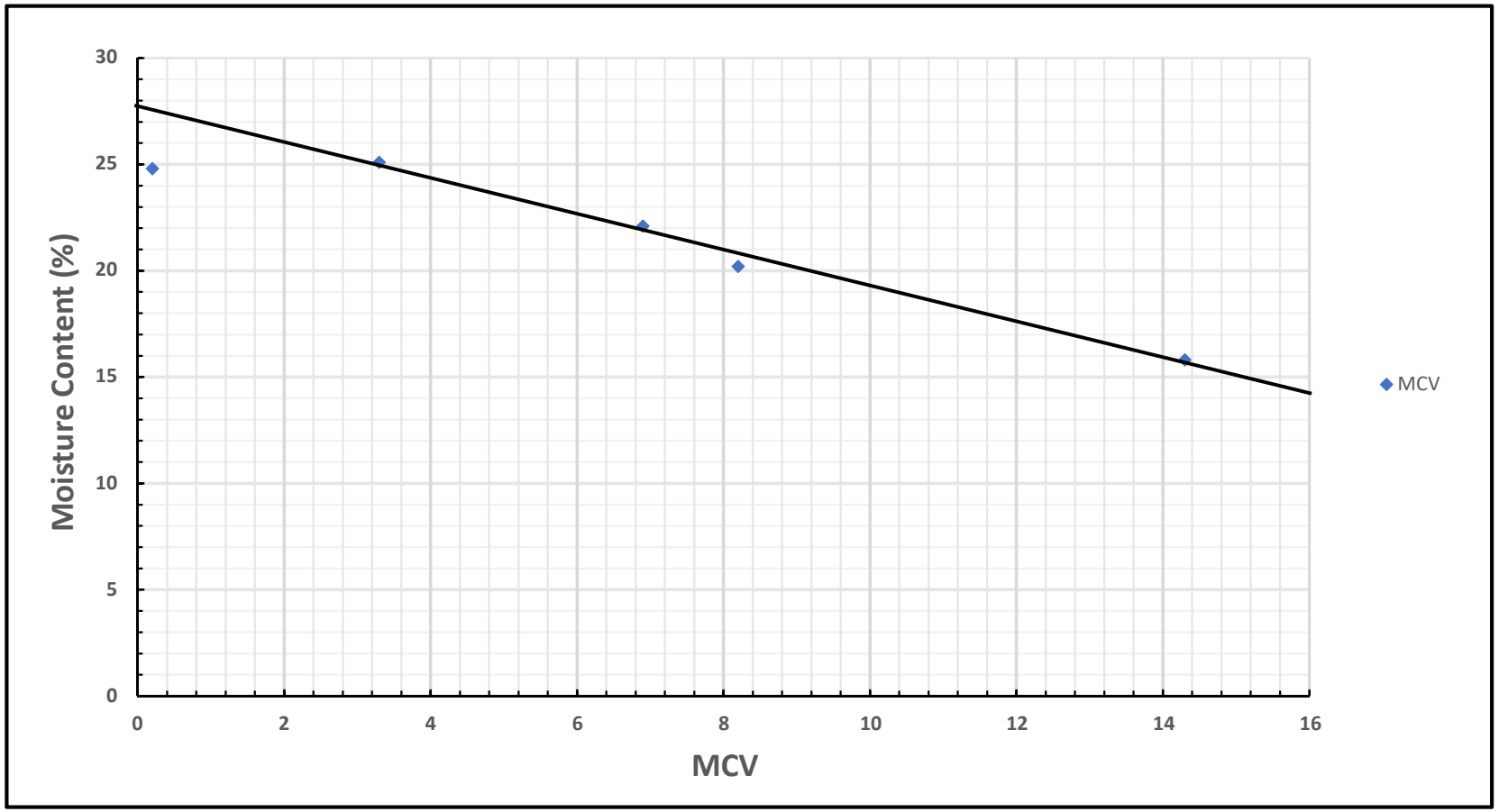


Figure 6-30

MCV Vs. Moisture Content

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP105 - B14 - 1m to 2m (Calibration)

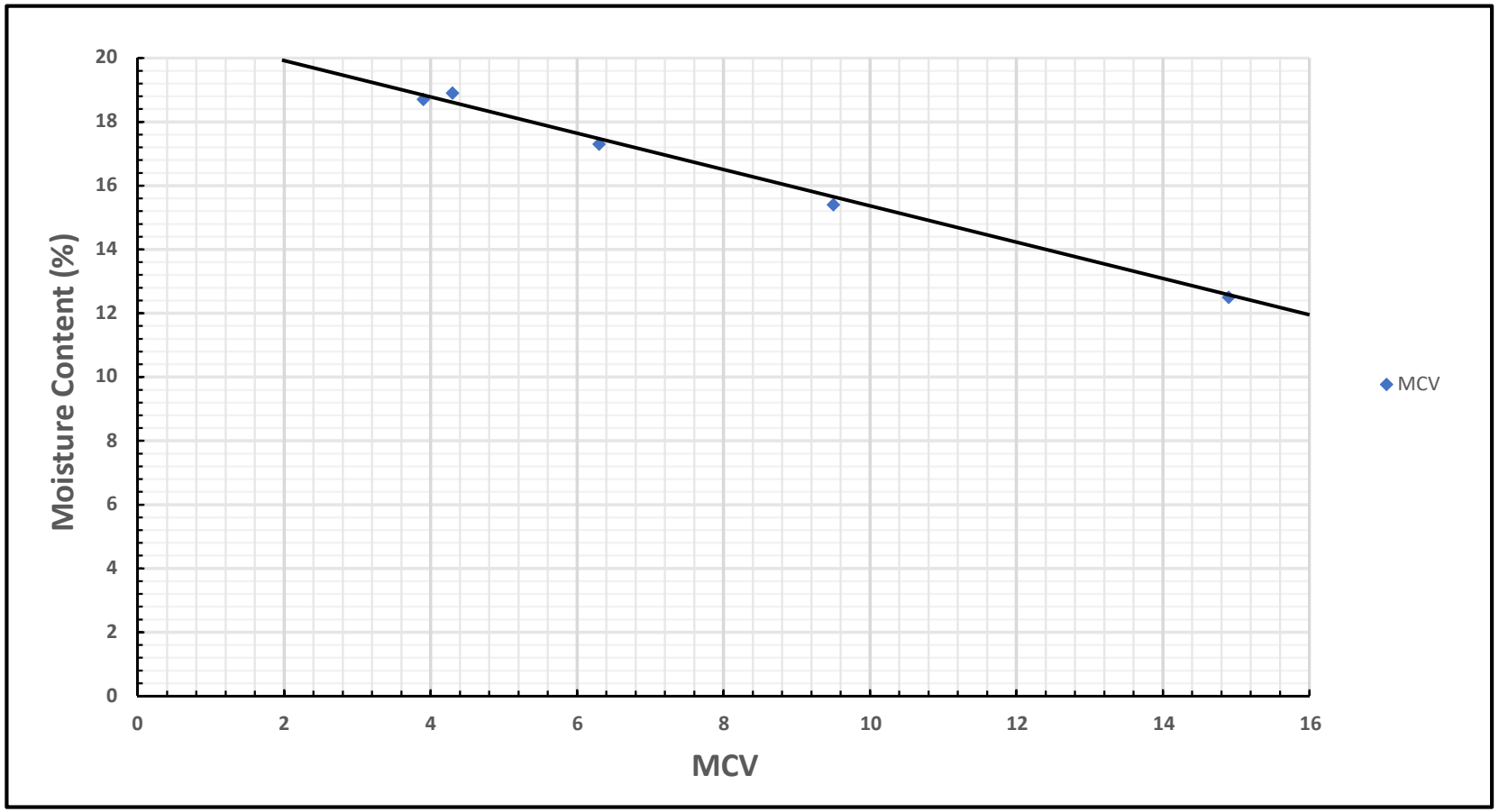


Figure 6-31

CBR Vs. Moisture Content

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP109 - B12 - 1m to 2m (Calibration)

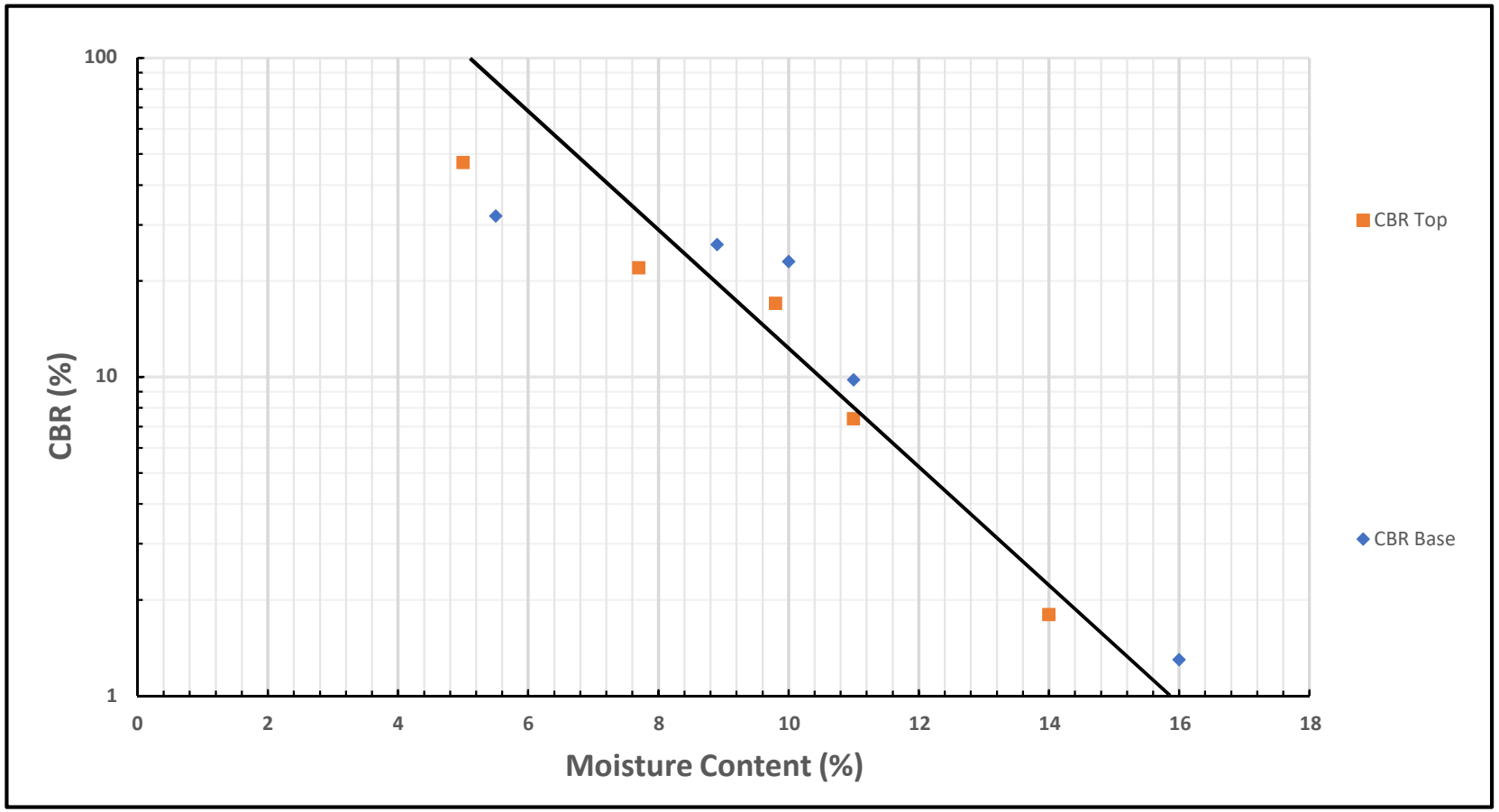


Figure 6-32

CBR Vs. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP107 - B19 - 1m to 3.5m (Calibration)

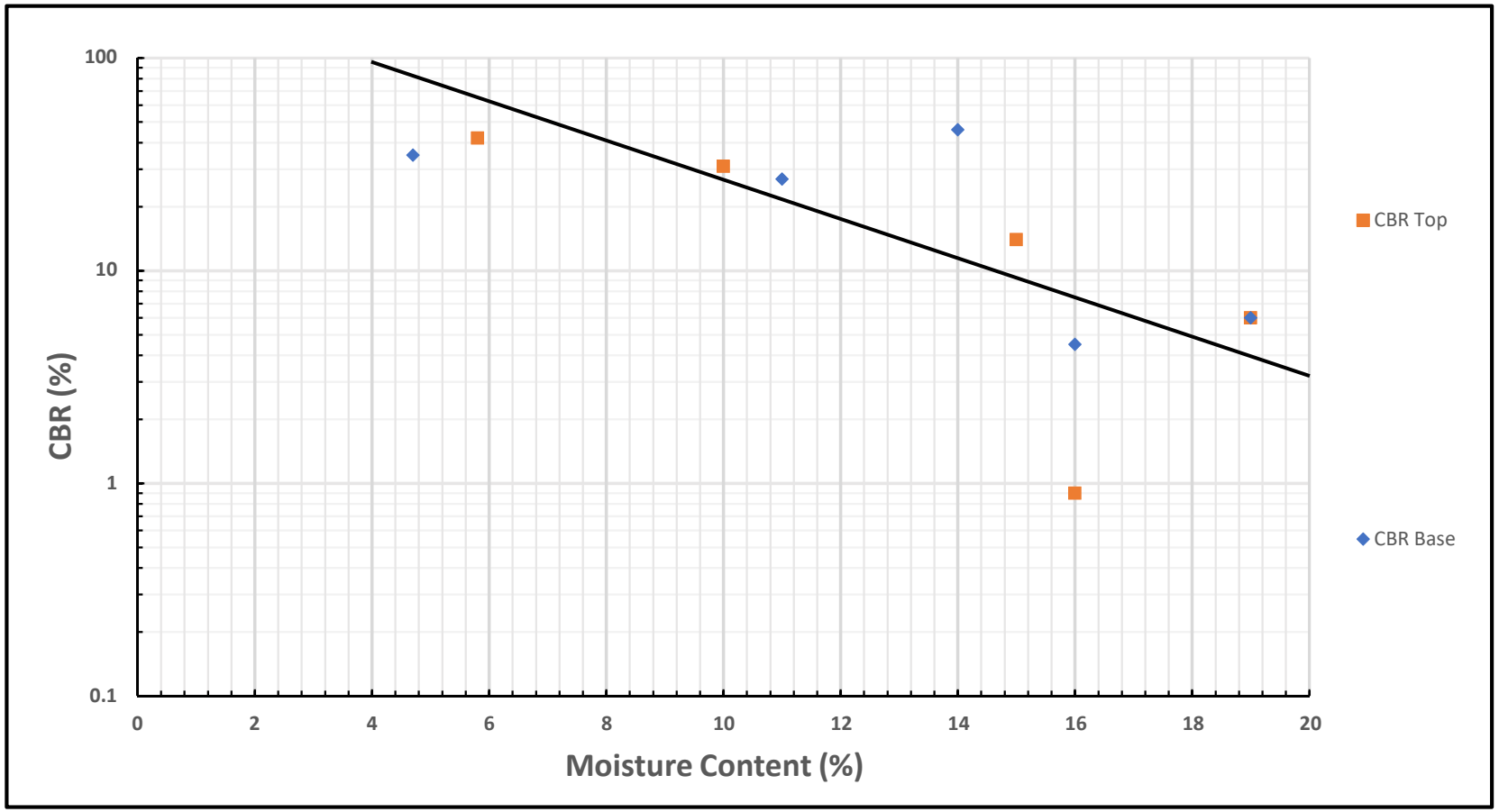


Figure 6-33

CBR Vs. Moisture Content

UA008015 - A585 Windy Harbour to Skippool

Glacial Till - TP105 - B14 - 1m to 2m (Calibration)

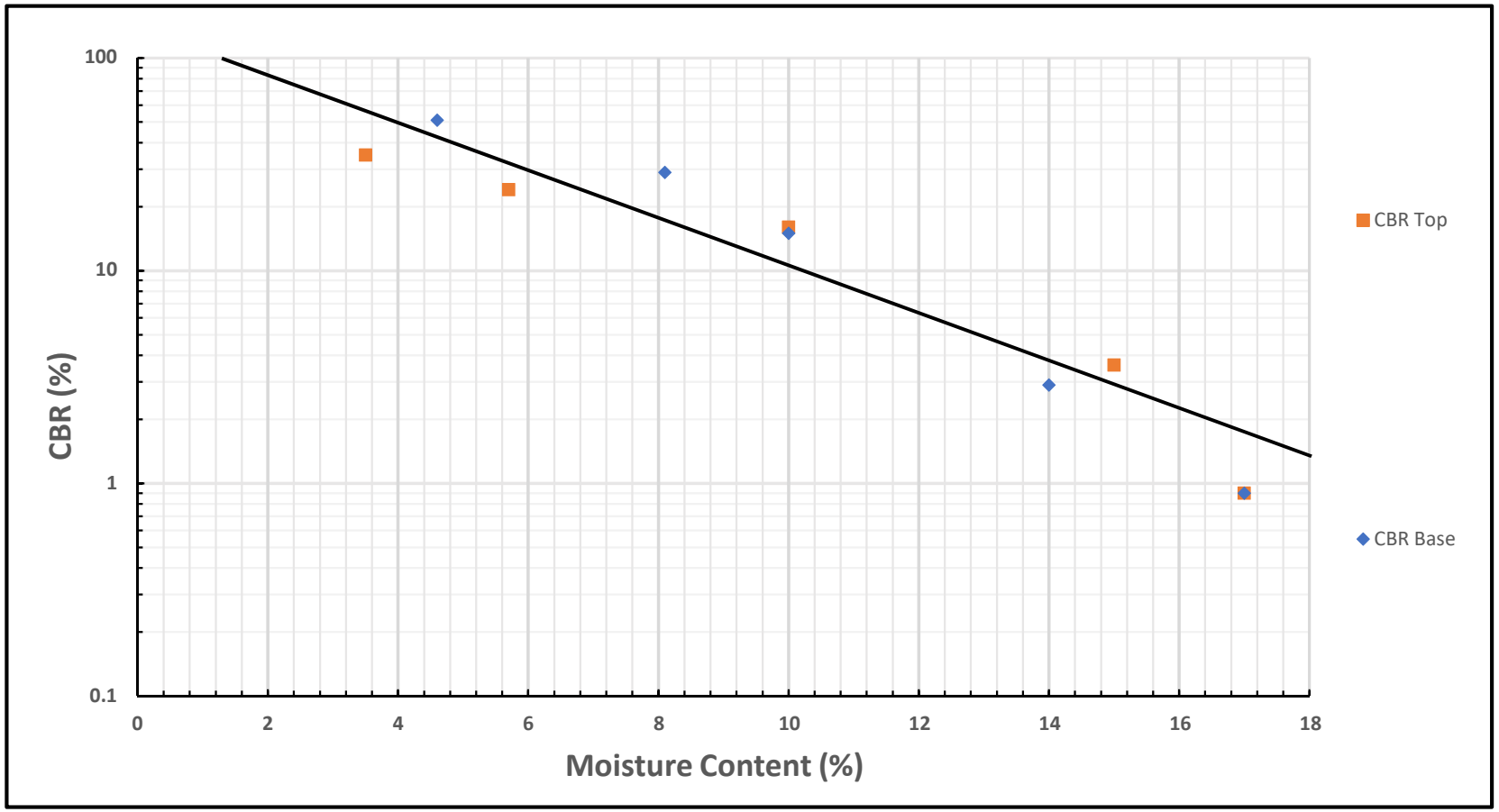


Figure 6-34

MCV Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

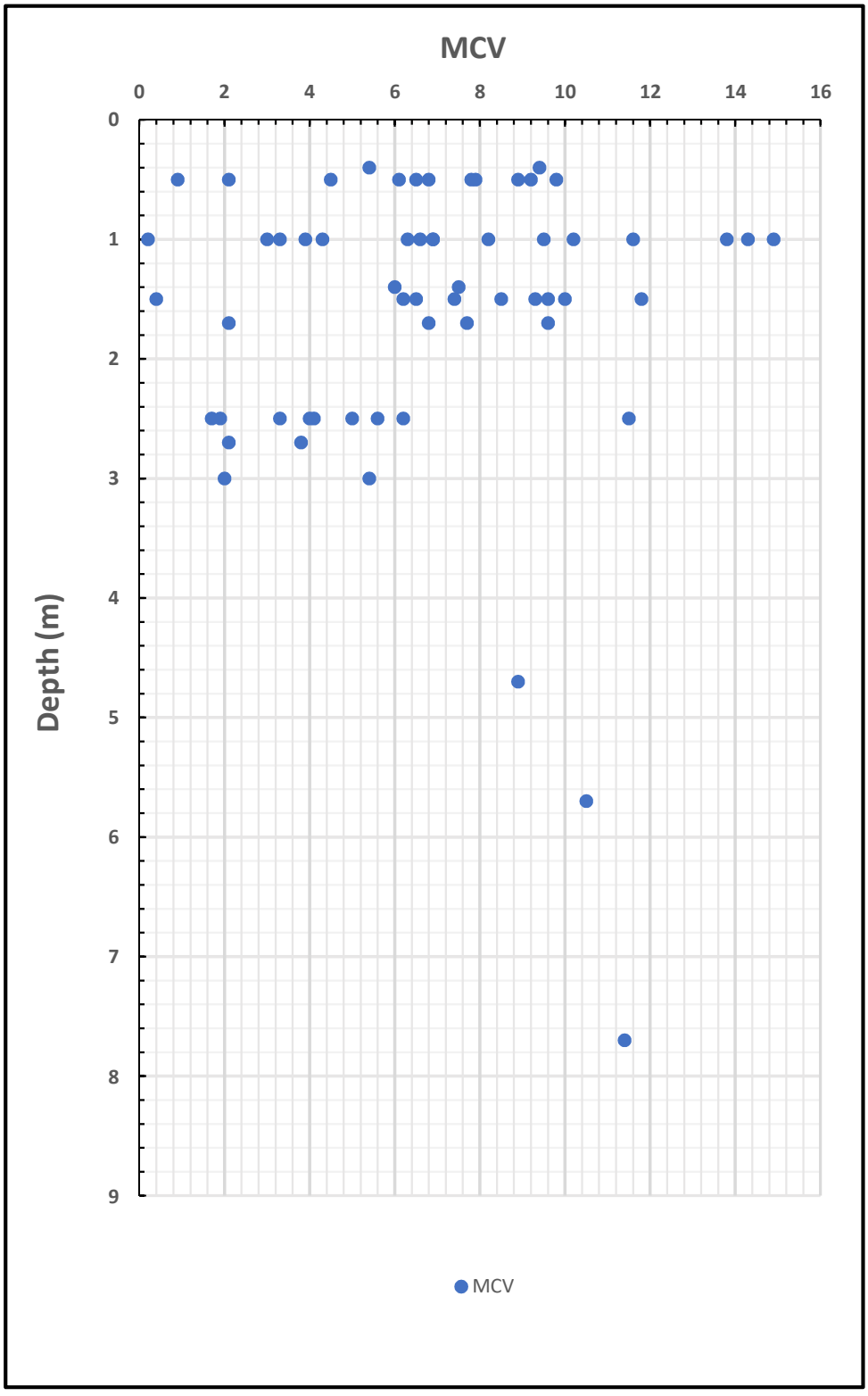


Figure 6-35

Moisture Content Vs. Dry Density (2.5kg)

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

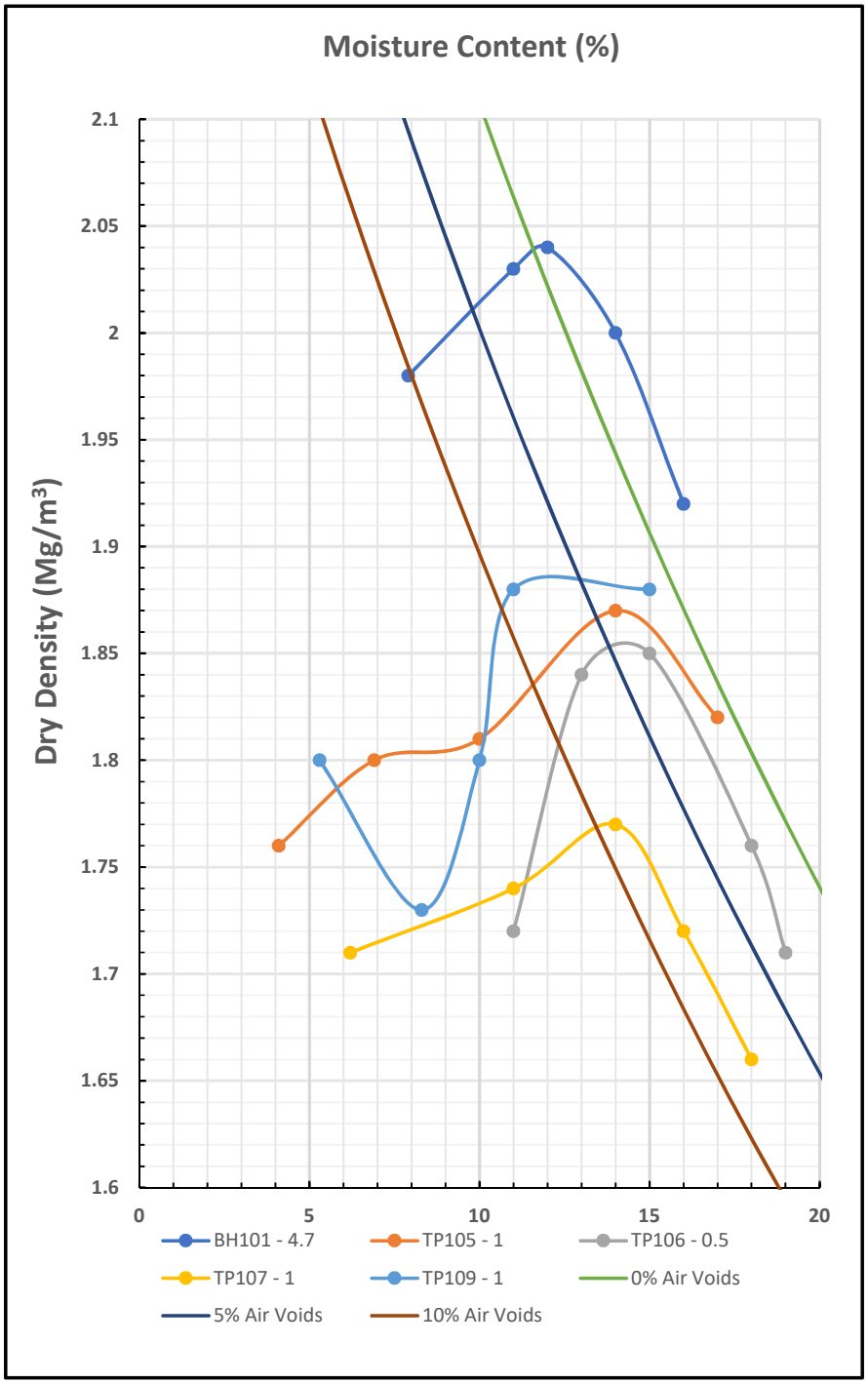


Figure 6-36

Moisture Content Vs. Dry Density (4.5kg)

highways england

UA008015 - A585 Windy Harbour to Skippool

Glacial Till

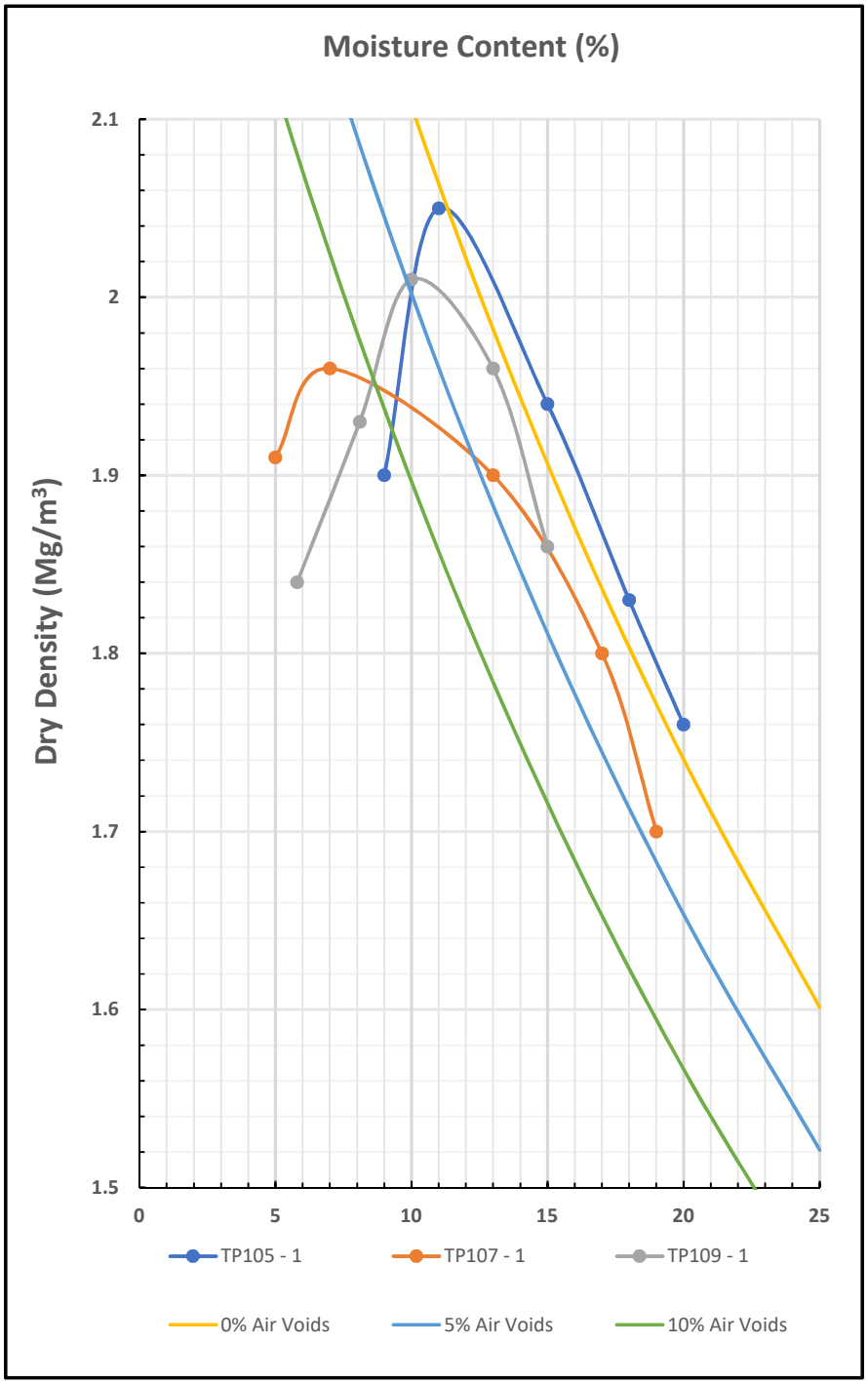


Figure 6-37

Particle Size Distribution

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

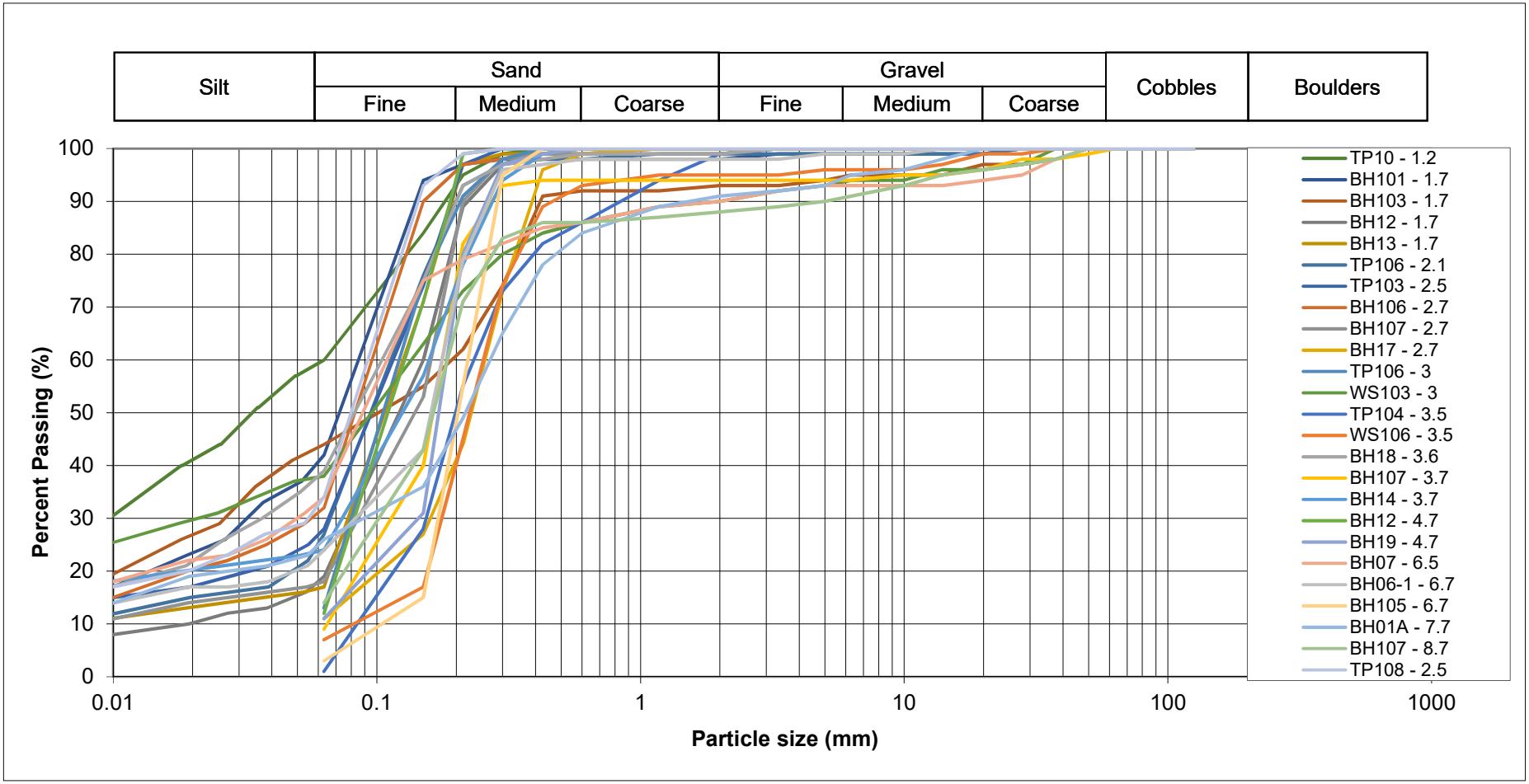


Figure 6-38

Moisture Content Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

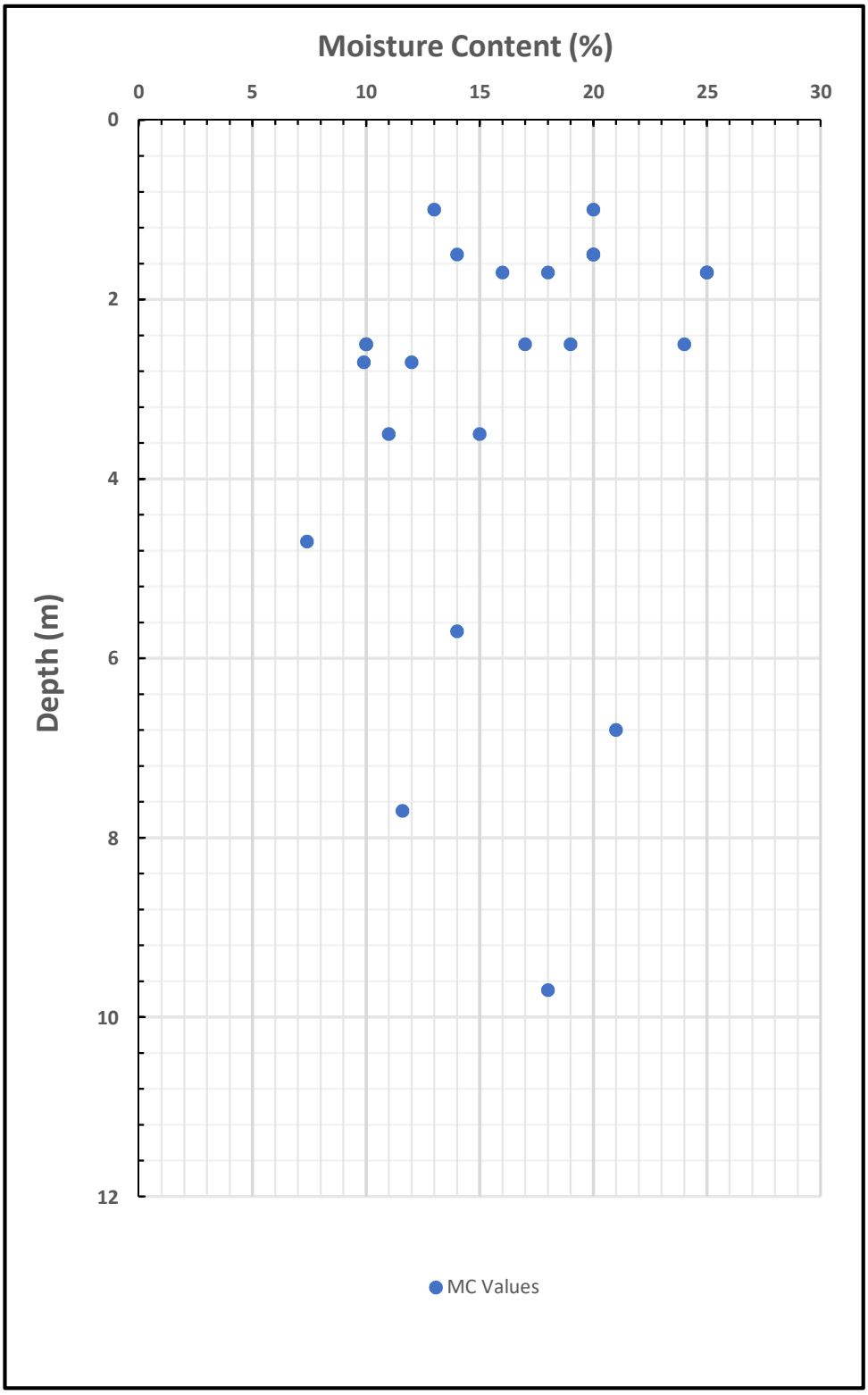


Figure 6-39

Atterberg 'A' Line Plot

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

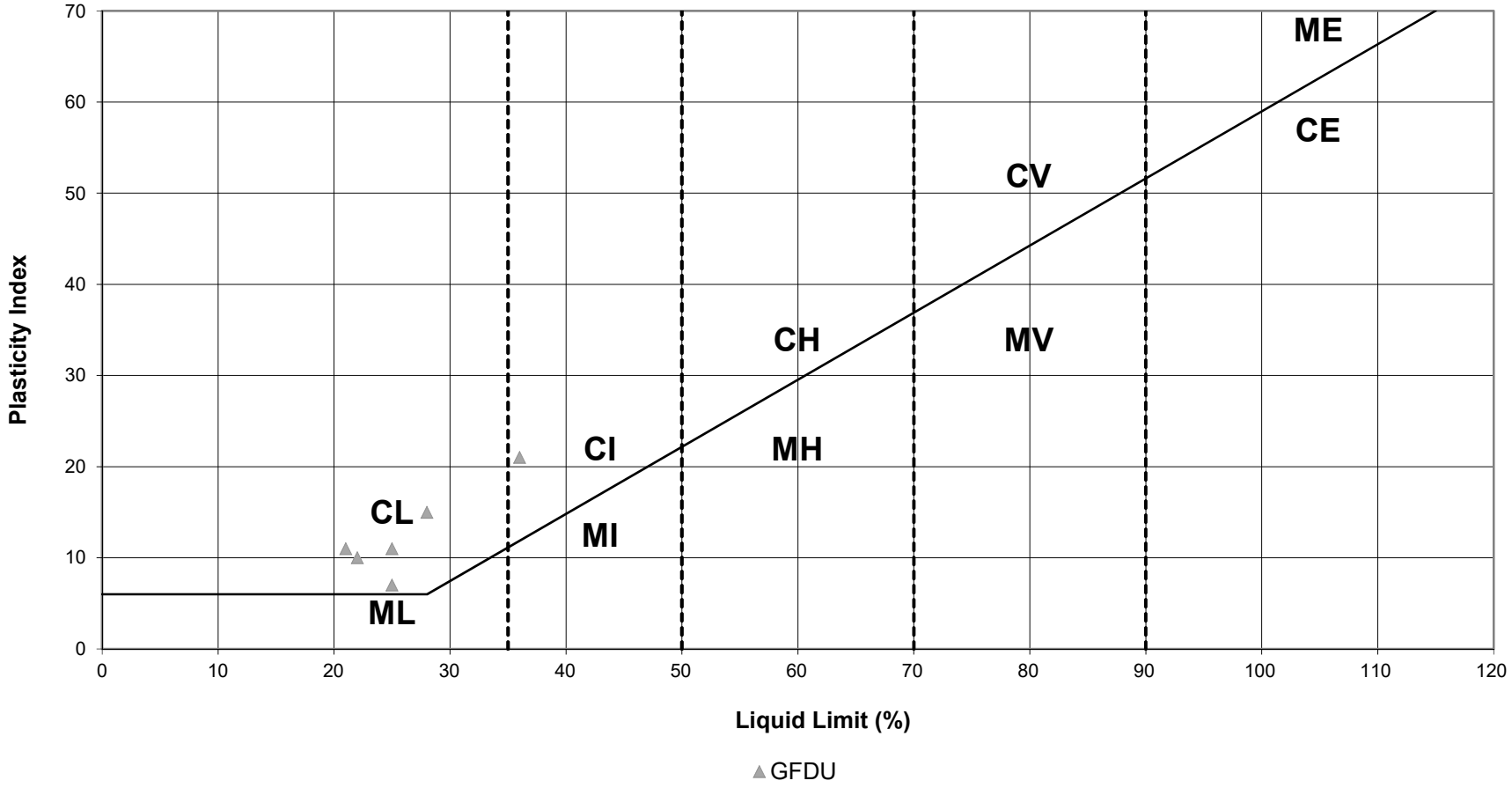


Figure 6-40

SPT 'N' Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

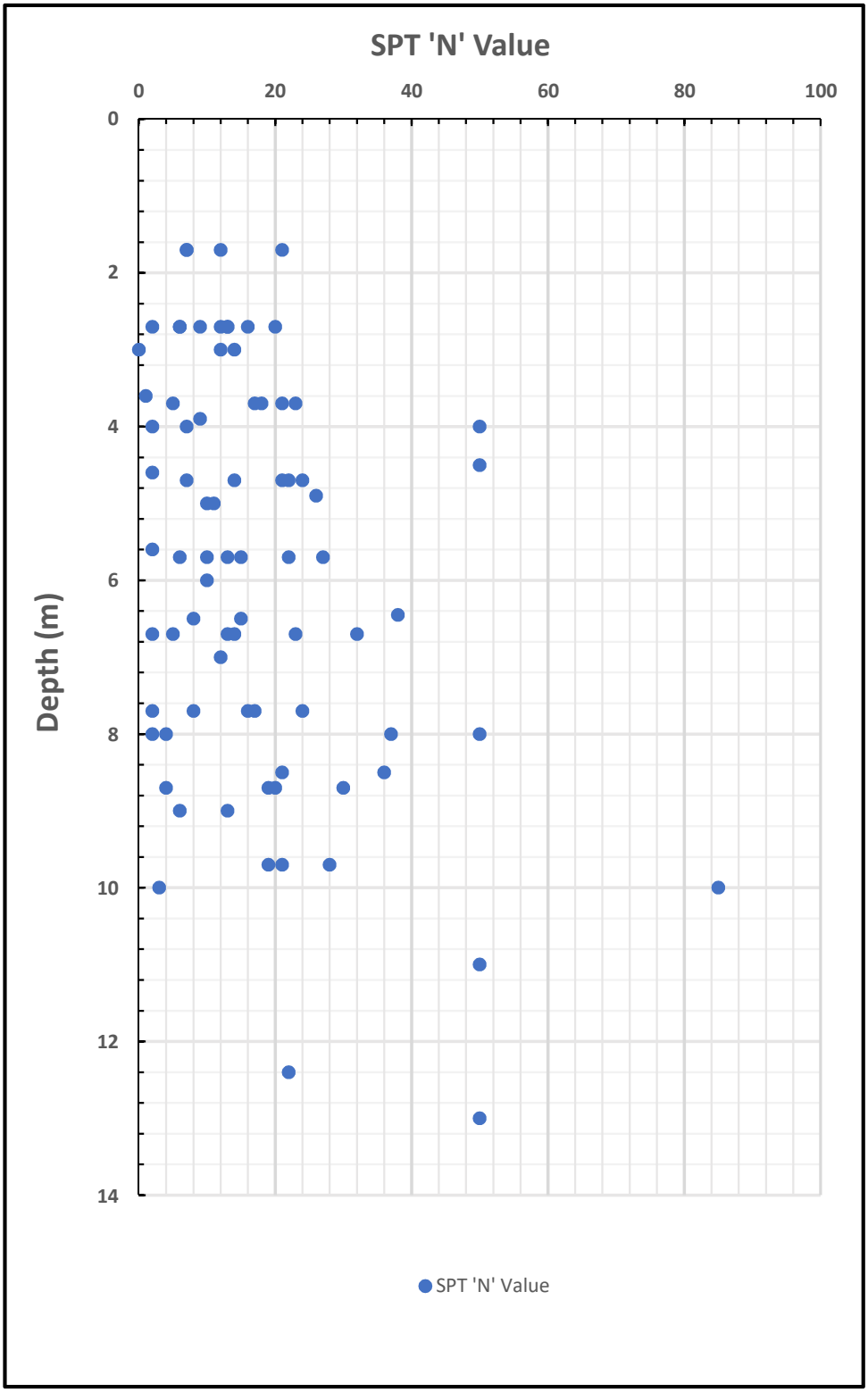


Figure 6-41

SPT 'N' Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits - Under TFD Along Dyke

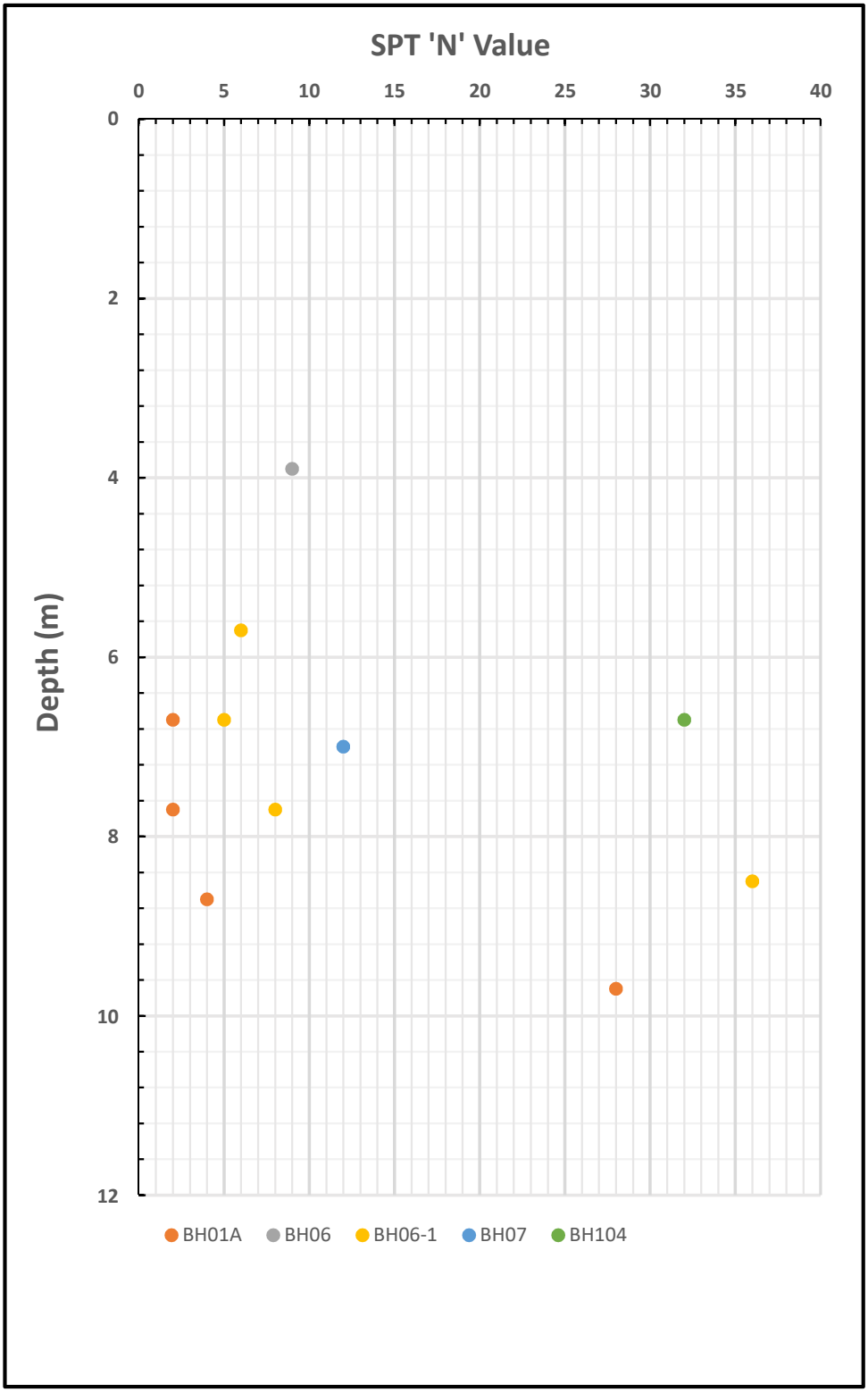


Figure 6-42

SPT 'N' Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits - Middle Sands

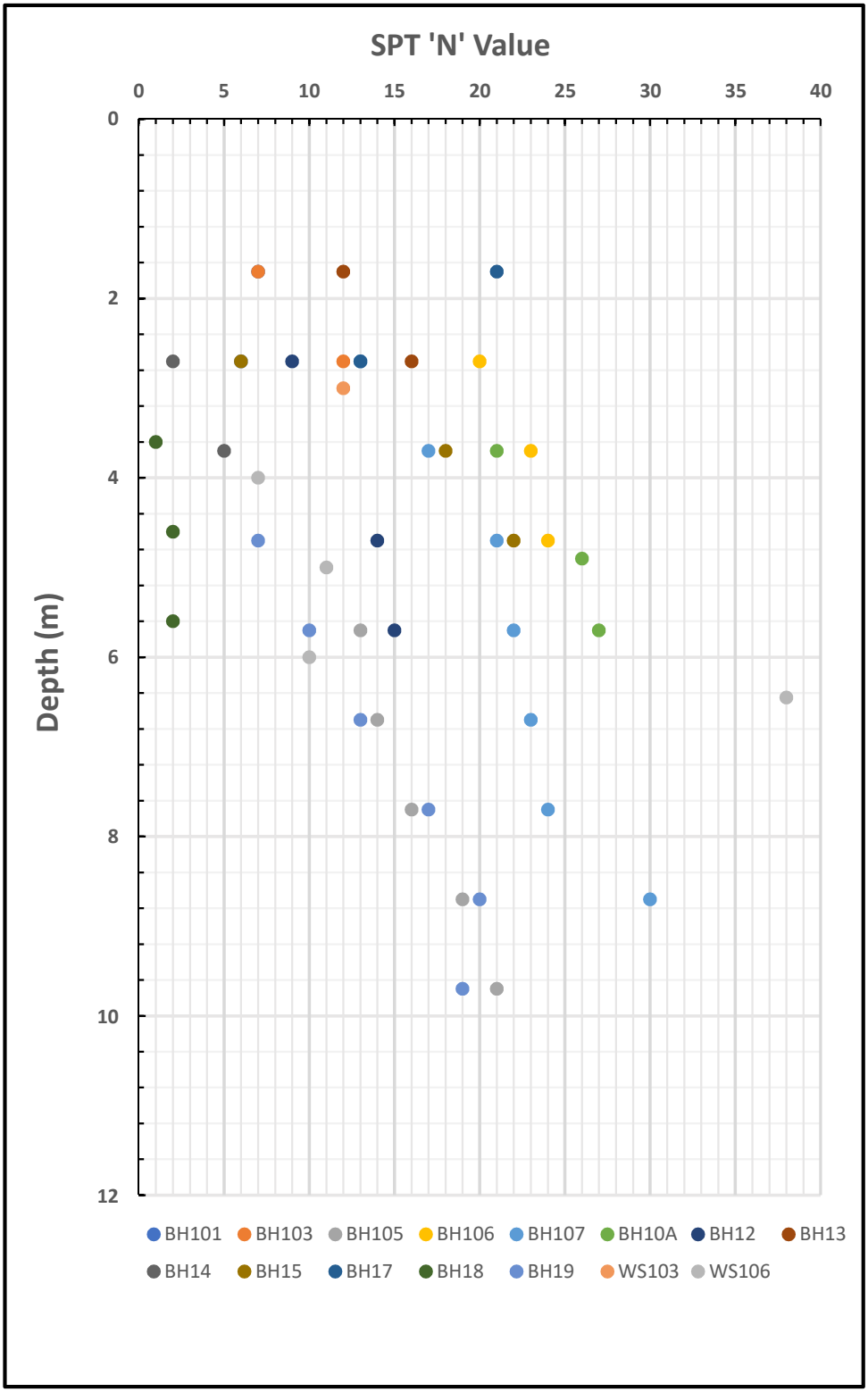


Figure 6-43

Cone Resistance Vs. Depth

highways england

UA008015 - A585 Windy Harbour to Skippool

GFDU - CH. 1130 - 2350

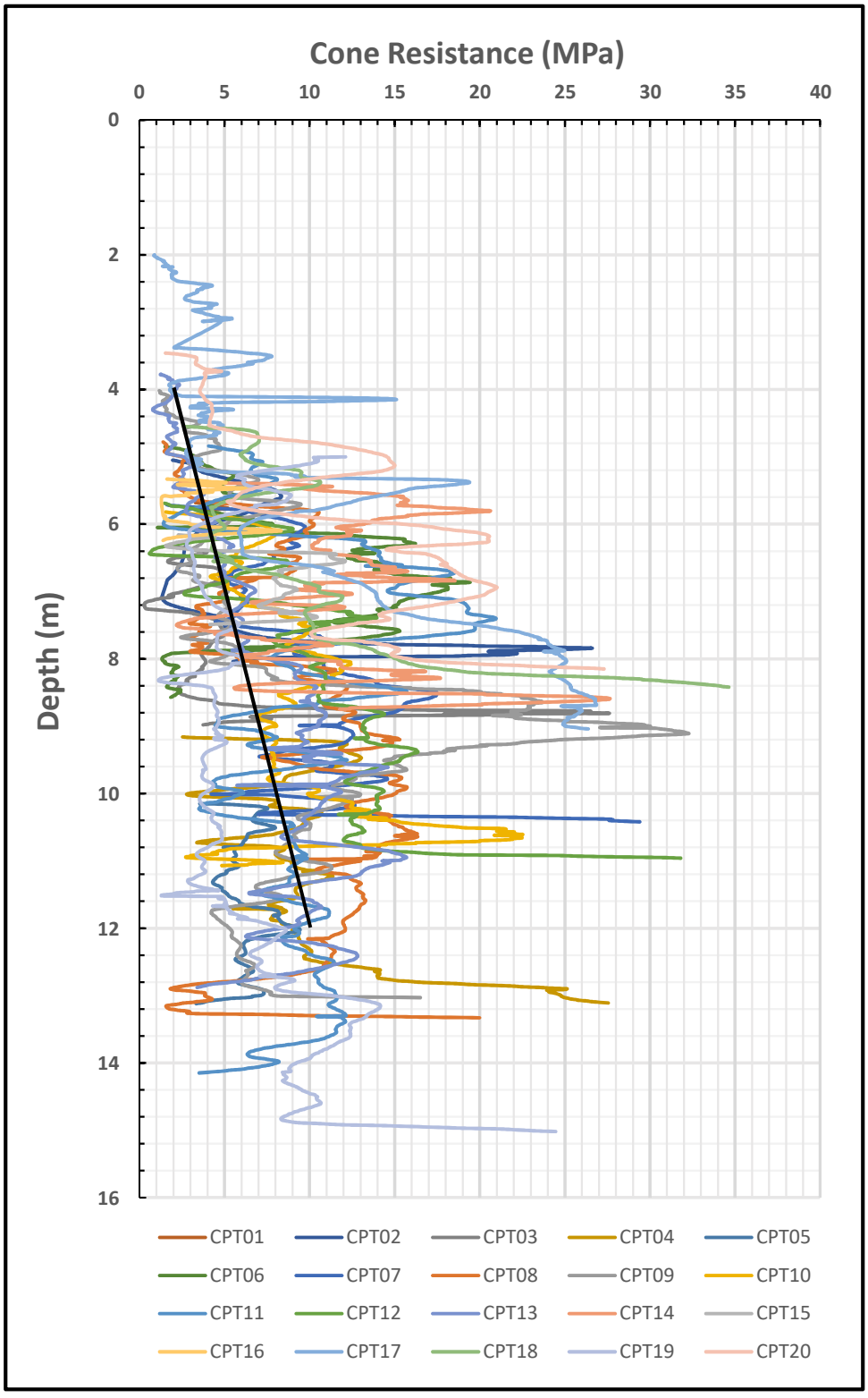


Figure 6-44

Peak Shear Stress Vs. Normal Stress

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

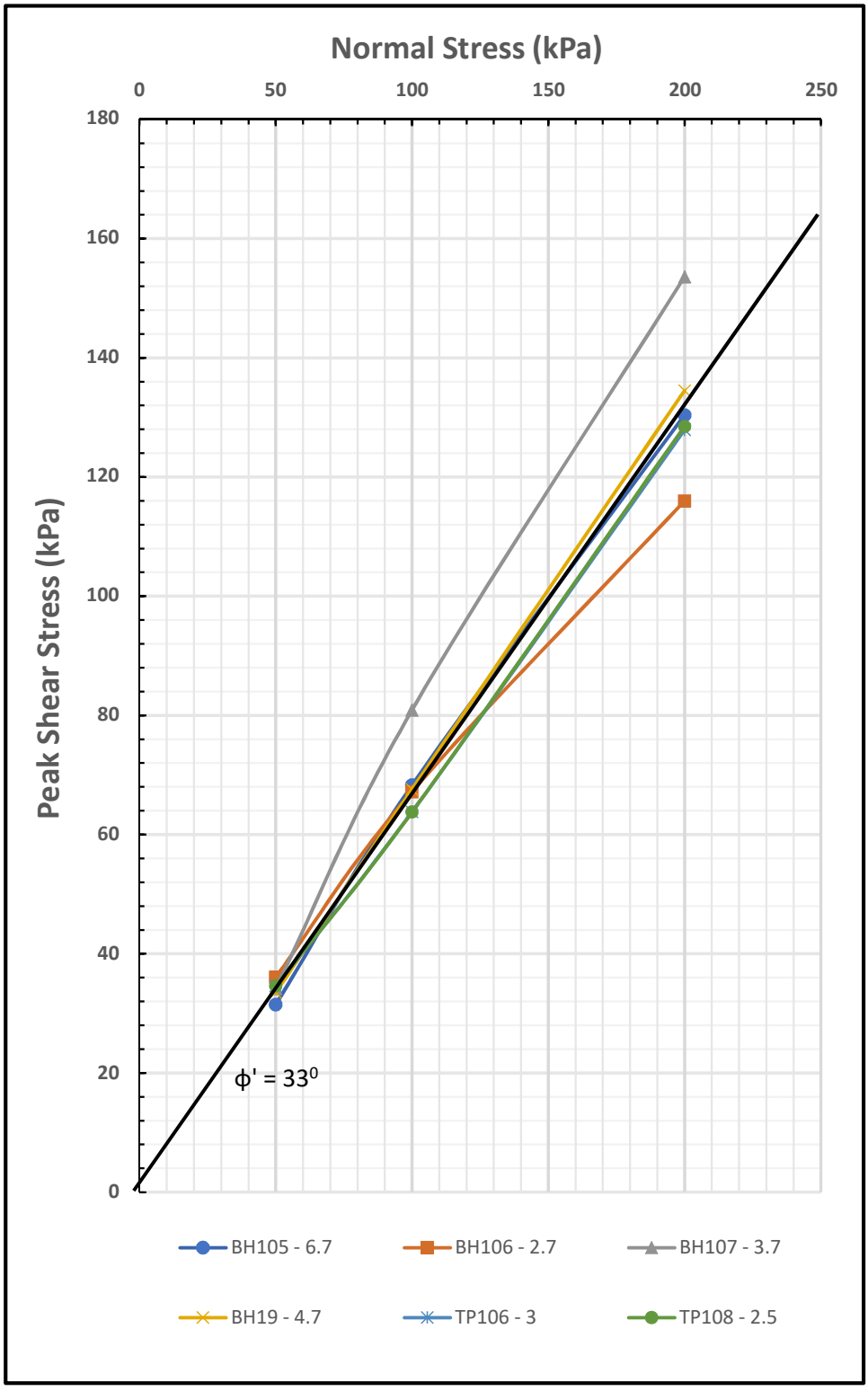


Figure 6-45

Residual Shear Stress Vs. Normal Stress

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

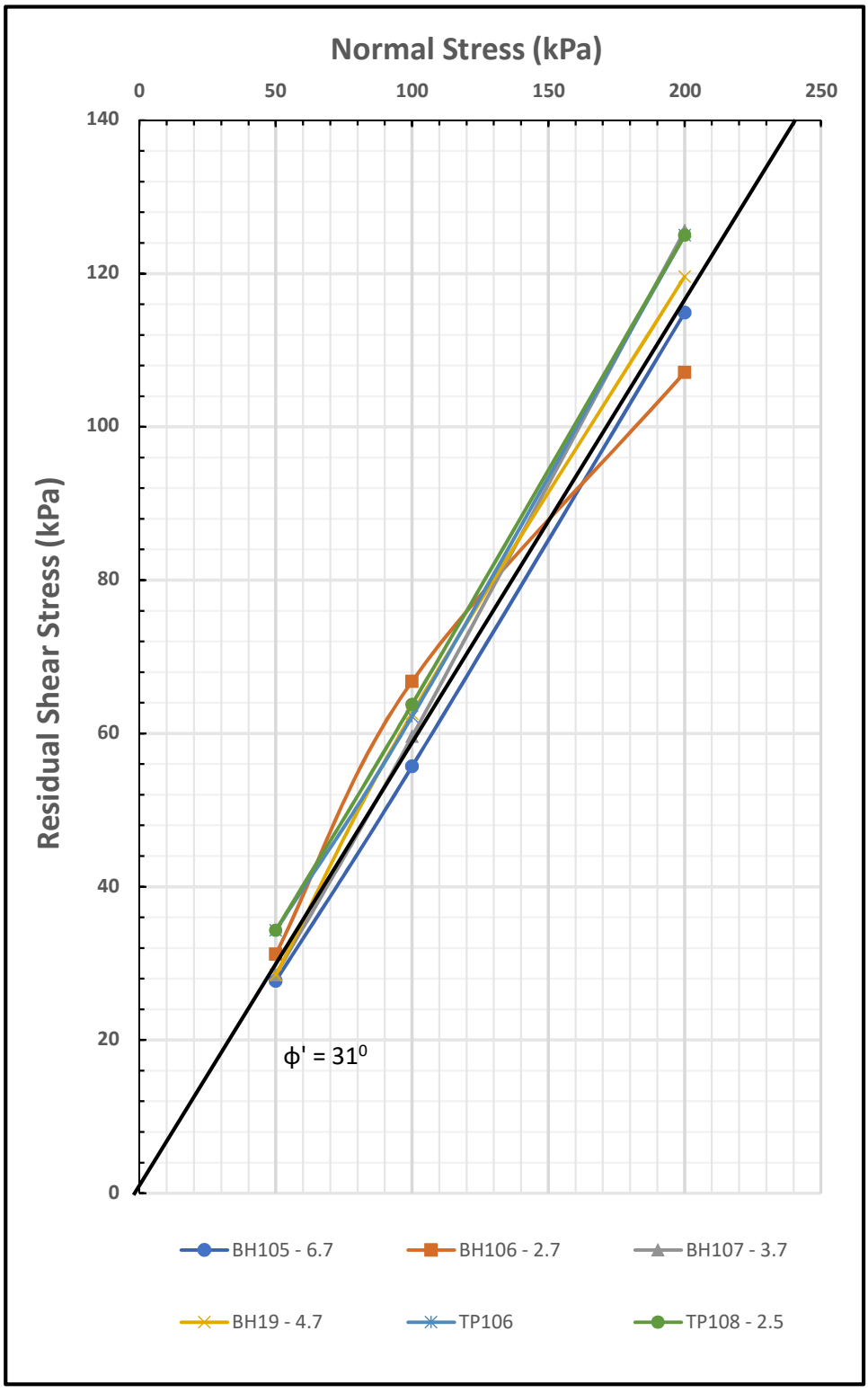


Figure 6-46

Moisture Content Vs. Dry Density (2.5kg)

highways england

UA008015 - A585 Windy Harbour to Skippool

GFDU - TP108 - B13 - 2.5 (Calibration)

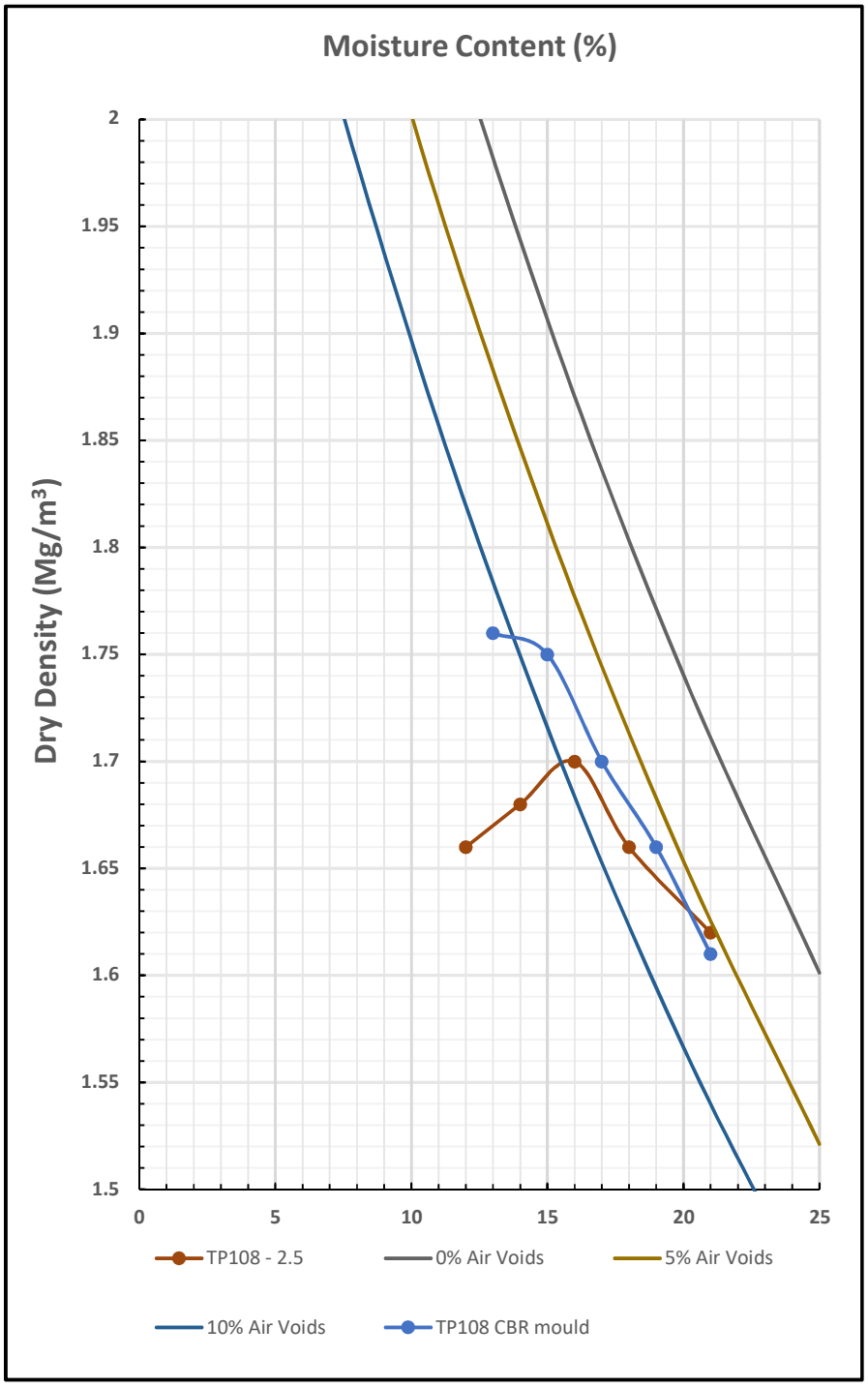


Figure 6-47

MCV Vs. Moisture Content

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits - TP108 - B13 - 2.5m (Calibration)

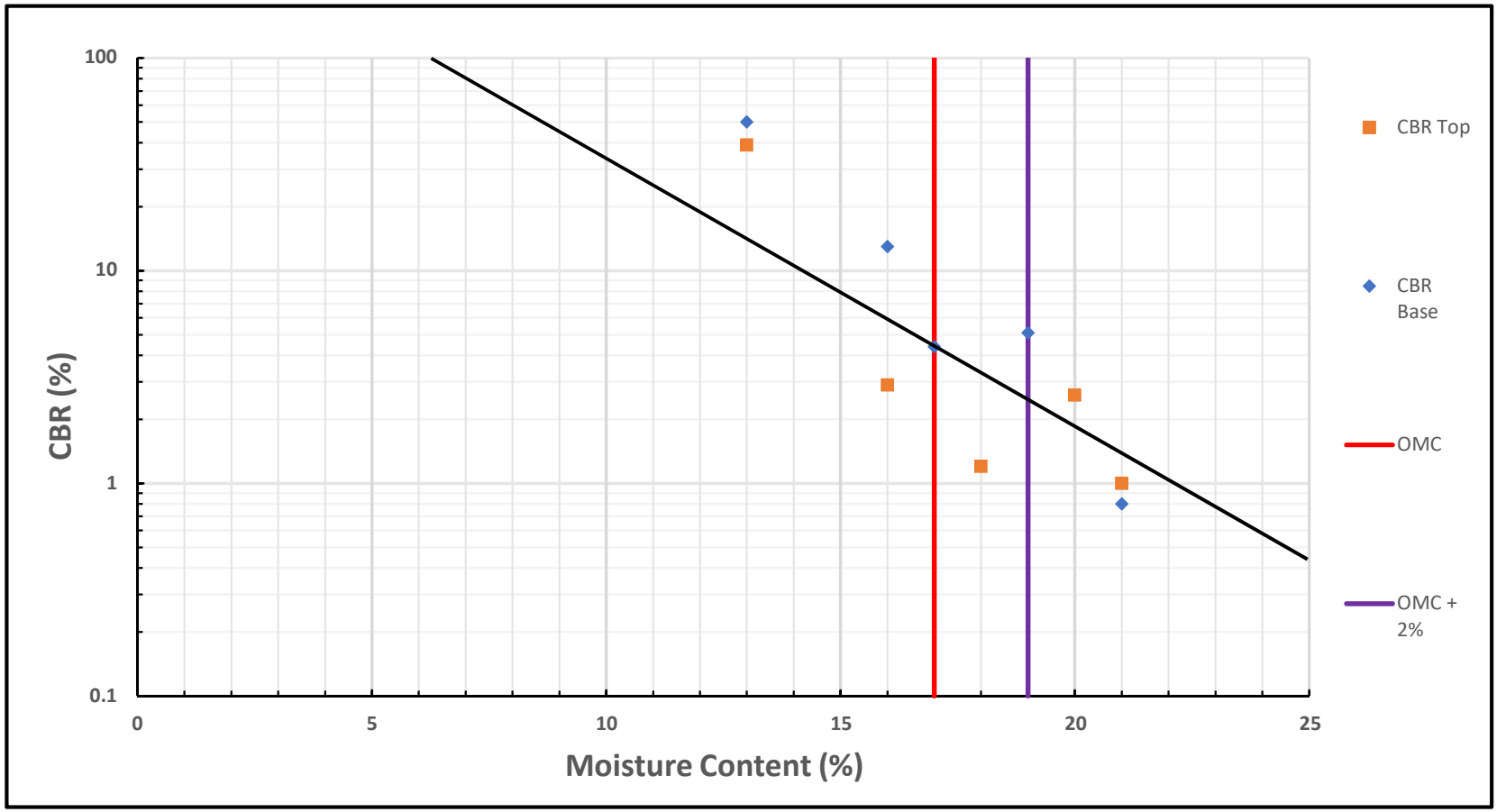


Figure 6-48

Moisture Content Vs. Dry Density (2.5kg)

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

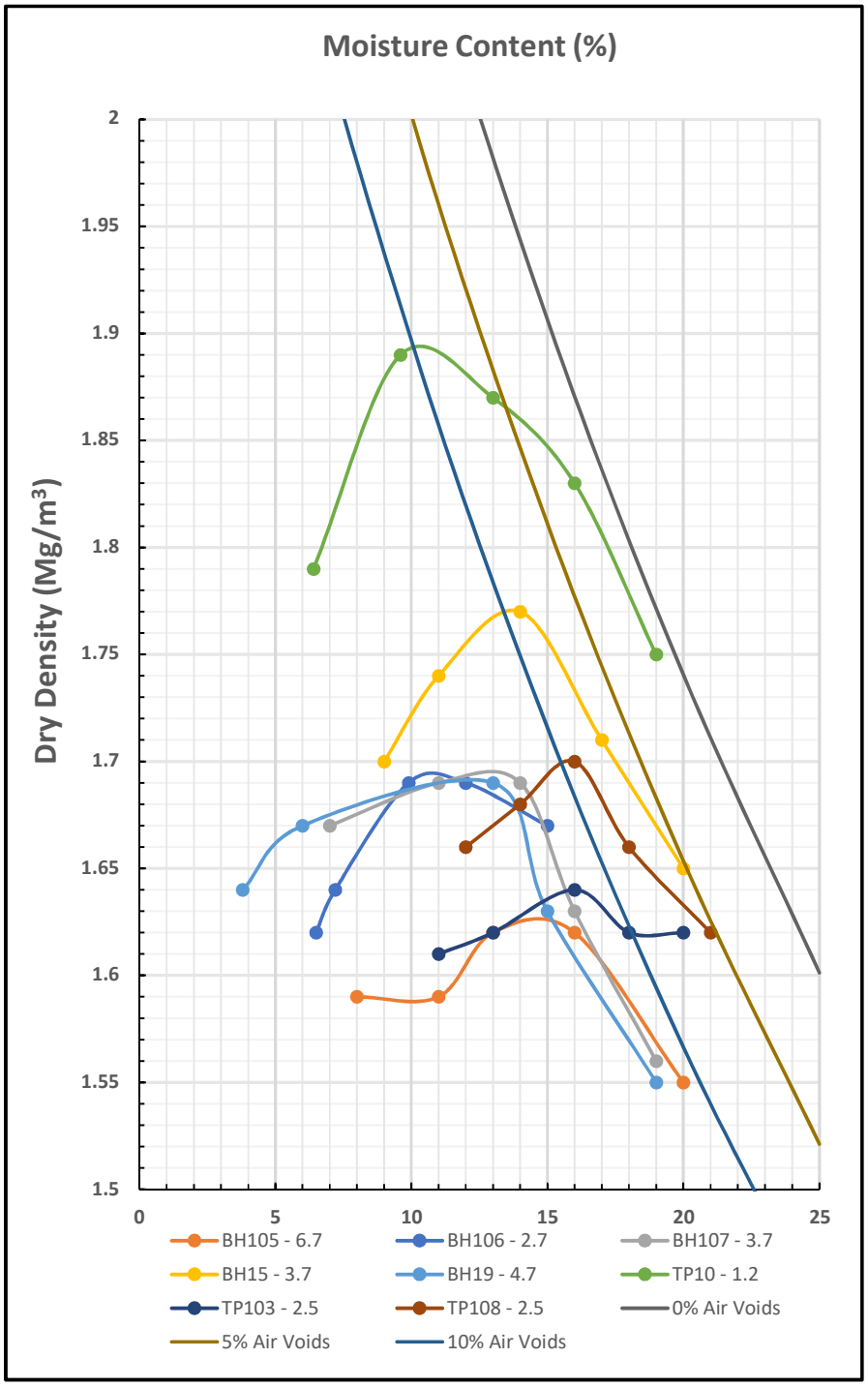


Figure 6-49

Moisture Content Vs. Dry Density (4.5kg)

highways england

UA008015 - A585 Windy Harbour to Skippool

Glaciofluvial Deposits

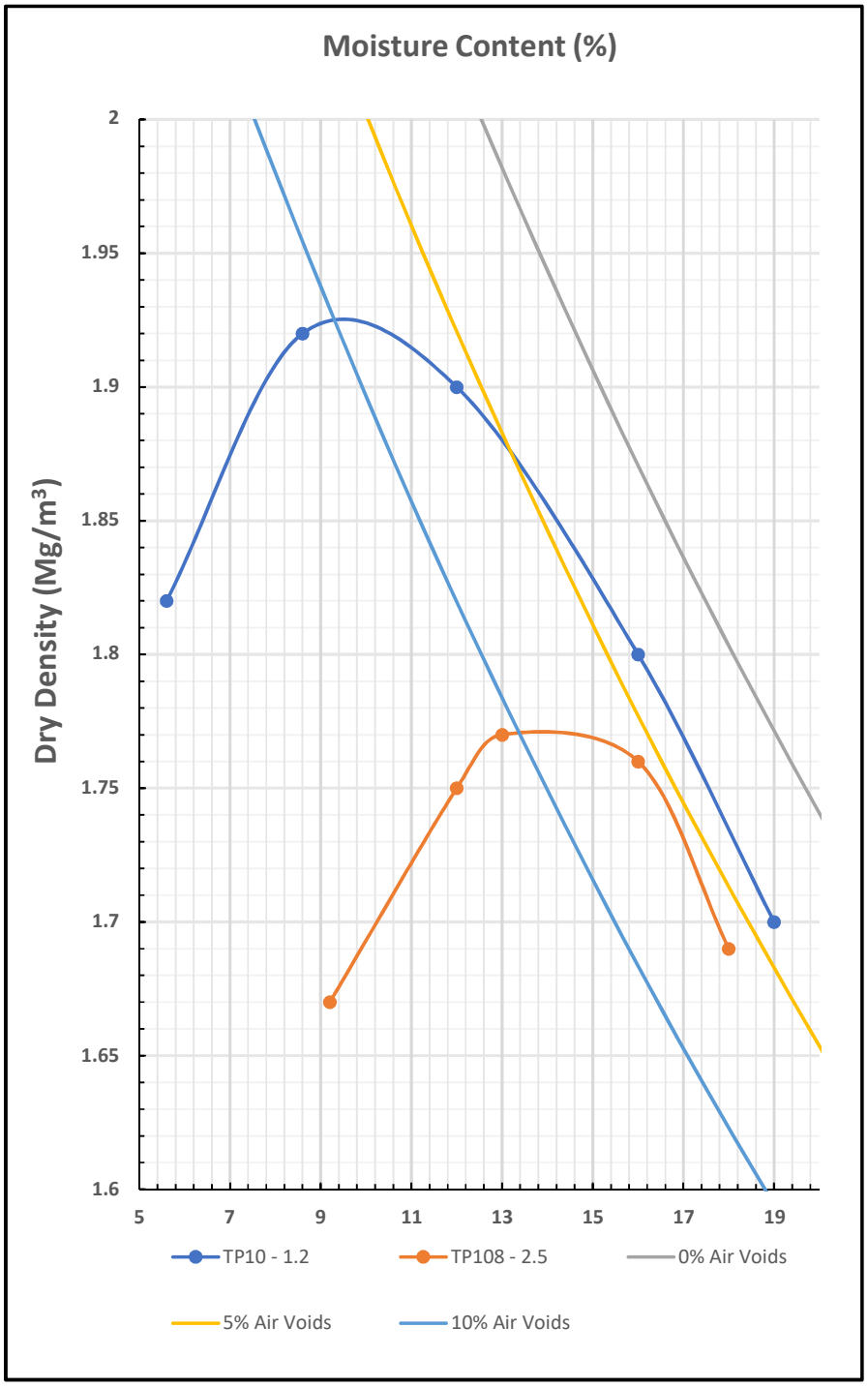


Figure 6-50

Particle Size Distribution

UA008015 - A585 Windy Harbour to Skippool

Singleton Mudstone Member

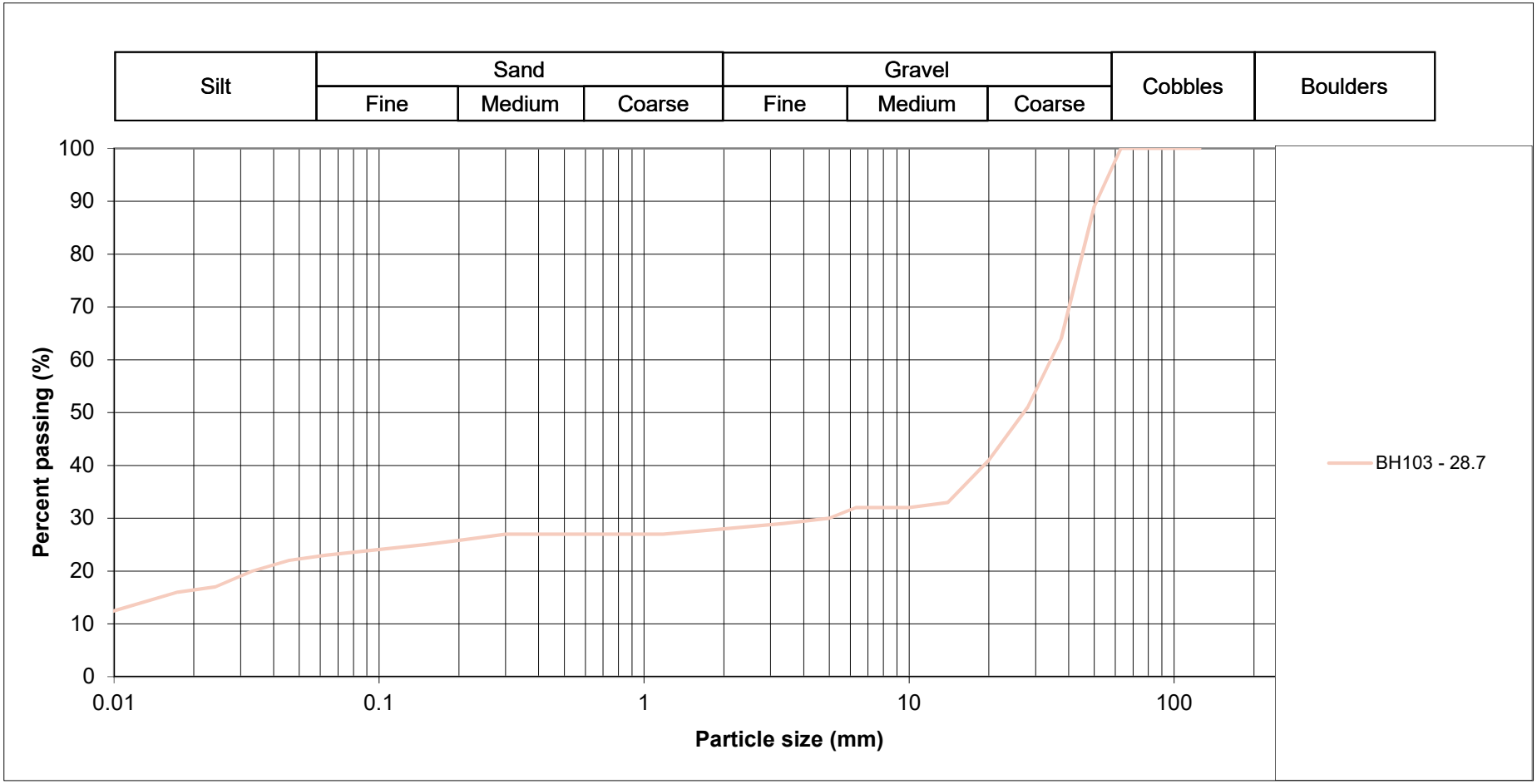


Figure 6-51

Appendix G Risk Register Map

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SKIPPOOL CREEK

SKIPPOOL MARSH

AREA OF MAPPED ARTIFICIAL GROUND/ALLUVIUM

FLOODING

FLOODING

MADE GROUND

SEWERAGE PIPELINE

PETROL STATION

EXITS, WORKSHOP, ADJACENT BRIDGE

SOFT TIDAL FLAT DEPOSITS, AREA SUBJECT TO FLOODING AND RUNNING SAND AT DEPTH

POND

POND

SOFT TIDAL FLAT DEPOSITS, AREA SUBJECT TO FLOODING AND RUNNING SAND AT DEPTH

SD34S64/BGS

SD34SE65/BGS

BH15/3936

BH14/3936

TP106/Rec

TP103/Rec

CP102/Rec

TP105/Rec

TP104/Rec

BH649/1/SB

BH104

BH101

TP103/Rec

TP102/Rec

TP104/Rec

CP101/Rec

BH05/2/28880

BH05/3/28880

BH04

WS111

TP01

TP02

CPT01

BH06-1

BH06

CPT02

CPT03/MO3/PV3

CPT05/MO5/PV5

CPT04

BH07

CPT06

CPT07/MO7

BH08

CPT08

WS109A

WS109

CPT09/MO9/PV9

CPT10

CPT11

WS108

CPT12

CPT13/MO13/PV13

CPT14/MO14/PV14

WS104A

NOTE: FOR THE DETAILS OF THE GEOTECHNICAL RISKS REFER TO THE RISK REGISTER TABLE IN CHAPTER 7

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

LEGEND

CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000

Client: highways england

Designer: ARCADIS — Design & Consultancy for natural and built assets

Registered office: Arcadis House, 34 York Way, London, N1 9AB

Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

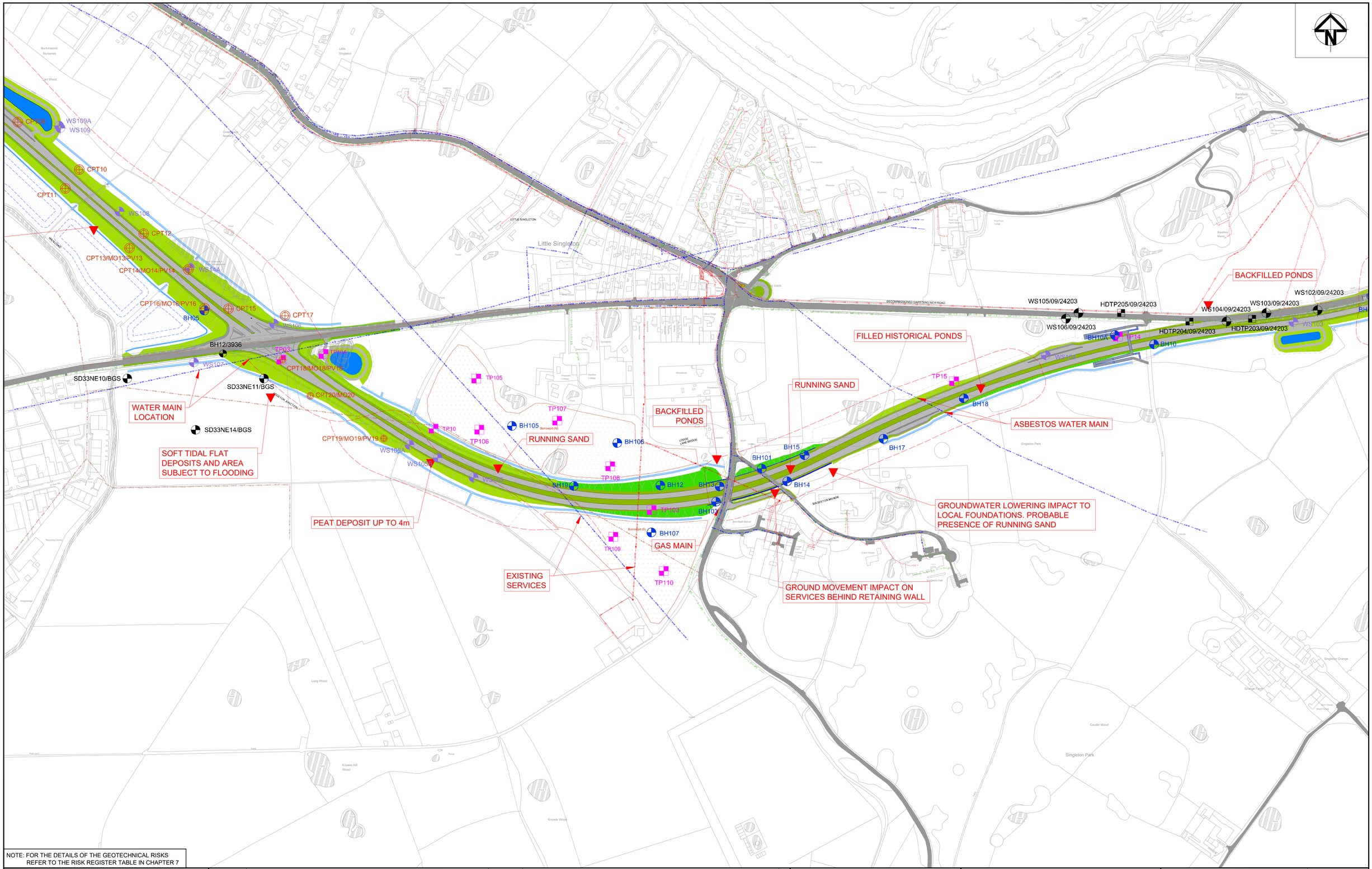
Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: RISK REGISTER MAP SHEET 1 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J.BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number

HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3020

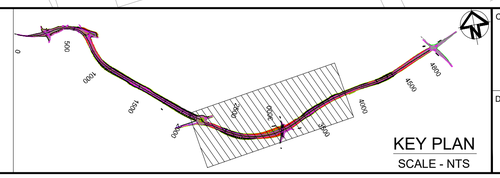


NOTE: FOR THE DETAILS OF THE GEOTECHNICAL RISKS REFER TO THE RISK REGISTER TABLE IN CHAPTER 7

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

LEGEND

CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		



KEY PLAN
SCALE - NTS

Client: highways england

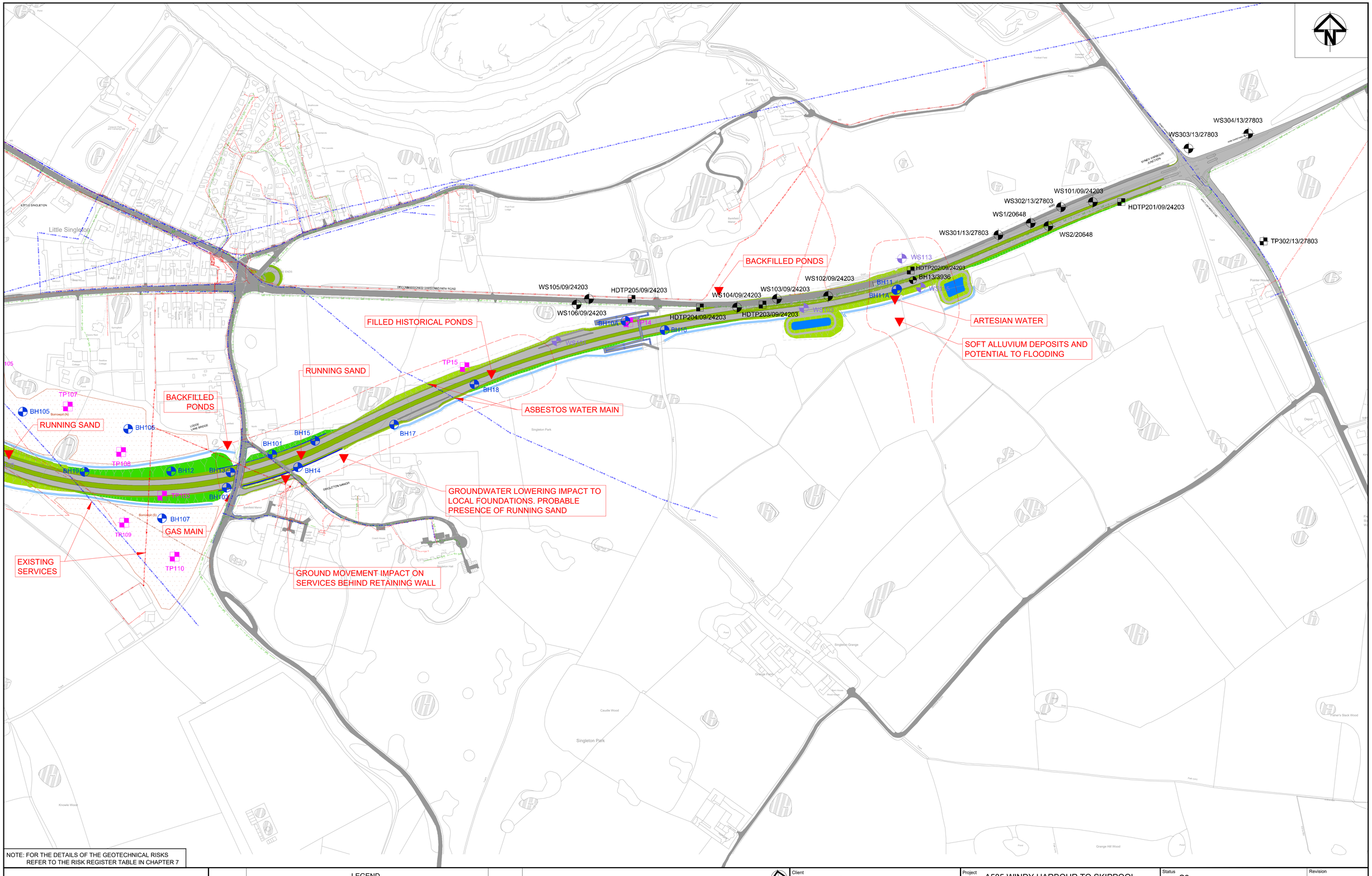
Designer: ARCADIS Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: RISK REGISTER MAP SHEET 2 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J.BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3020
(HE PIN | Originator | Volume | Location | Type | Role | Number)

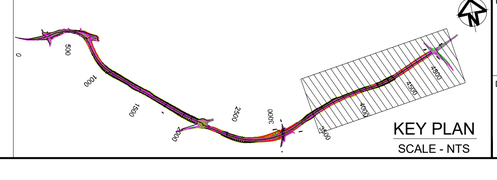


NOTE: FOR THE DETAILS OF THE GEOTECHNICAL RISKS REFER TO THE RISK REGISTER TABLE IN CHAPTER 7

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S3	27/07/2018	SECOND ISSUE HE COMMENTS	DM	KK/JB	NH
P01	S3	28/06/2018	PRELIMINARY DESIGN	DM	KK/JB	NH

LEGEND

CURRENT INVESTIGATION (2018)		HISTORICAL INVESTIGATION	
CPT	CONE PENETRATION TEST	BH	BOREHOLES
BH	BOREHOLES	TP	TRIAL PITS
TP	TRIAL PITS	WS	WINDOW SAMPLE
WS	WINDOW SAMPLE		



KEY PLAN
SCALE - NTS

Client: highways england

Designer: ARCADIS — Design & Consultancy for natural and built assets
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: 10 Medawar Road, The Surrey Research Park, Guildford, Surrey, GU2 7AR

Project: A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title: RISK REGISTER MAP SHEET 3 OF 3

Status	S3	Revision	P02
Scale	AS SHOWN	Date	27/07/2018
Drawn By	D. MORE		
Checked By	K. KANIA/J.BAPLE		
Approved By	N. HENDERSON		
PINS No.	TR010035	Original Size	A1

Drawing number: HE PIN | Originator | Volume | Location | Type | Role | Number
HE548643-ARC-HGT-SZ_ZZ000-DR-CE-3020

Appendix H Waste Classification Report and Material Re-Use

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			SampleCode	BH01130218SO0.5	BH01130218SO2	BH01A050318SO0.5	BH04090118SO0.5	BH05050318SO1	BH06130218SO0.5	BH07310118SO0.5	BH08080218SO0.5	BH101070218SO1	BH10260218SO0.5	BH103000100SO0.8	BH104310118SO1	BH105220118SO0.8	BH106230118SO0.3	BH107160118SO1	BH11A160218SO1
			Location_Code	BH01	BH01	BH01A	BH04	BH05	BH06	BH07	BH08	BH101	BH10	BH103	BH104	BH105	BH106	BH107	BH11A
			Sampled_Date_Time	13/02/2018	13/02/2018	05/03/2018	09/01/2018	05/03/2018	13/02/2018	31/01/2018	08/02/2018	07/02/2018	26/02/2018	01/01/1901	31/01/2018	22/01/2018	23/01/2018	16/01/2018	16/02/2018
			Sample_Depth_Range	0.5	2	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.8	1	0.8	0.3	1	1
			Matrix_Type	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
			Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
			SO LQM POS-Resi 1% SOM																
Method_Name	ChemName	output unit																	
	MTBE	mg/kg		0.027	0.025	0.023	0.023	0.026	0.027	0.027	0.026	0.024	0.024	-	0.022	0.023	0.026	0.024	0.091
	PAH 16 Total	mg/kg		26.5	8.91	62.2	1.48	1.64	1.74	1.7	1.67	1.53	1.59	1.53	3.54	1.5	1.65	1.53	5.84
	SO4-- (acid sol)	mg/kg		722	312	6990	191	545	545	604	219	250	261	234	217	1990	854	25	4640
	>EC8-EC10 Aromatics	mg/kg	5000	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	18
	Benzene	mg/kg	72	0.014	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.046
	% Stones >4mm	%		-	4.6	-	-	-	-	-	-	-	-	-	-	6.4	-	4	-
	>C8-C10 Aliphatics	mg/kg	13000	5	5	5	4.73	5	5	5.37	5	5	5	4.92	4	4.73	5.31	4.83	18
	>EC10-EC12 Aromatics	mg/kg	13000	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	18
	GRO TOT uncorrected	mg/kg		0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.9
	Toluene	mg/kg	56000	0.014	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.046
	>C10-C12 Aliphatics	mg/kg	13000	5	5	5	4.73	5	5	5.37	5	5	5	4.92	4	4.73	5.31	4.83	18
	>EC12-EC16 Aromatics	mg/kg	5100	5	5	5.34	5	5	5	5	5	5	5	5	4	5	5	6.39	18
	Ethylbenzene	mg/kg	24000	0.014	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.046
	>C12-C16 Aliphatics	mg/kg	13000	5	5	5	4.73	5	5	5.37	5	5	5	4.92	4	4.73	5.31	4.83	18
	>EC16-EC21 Aromatics	mg/kg	3800	8.09	5	32.9	5	5	9.02	5	5	5	11.4	5	4	5	5	5	27.17
	>C16-C21 Aliphatics	mg/kg		6.31	5	7.74	4.73	5	6.29	5.37	5	5	5	4.92	4	4.73	5.31	4.83	18
	>EC21-EC35 Aromatics	mg/kg	3800	86	34.9	200	10.16	11.23	19.6	11.65	11.42	10.45	26.9	10.47	9.84	10.26	11.29	10.47	123
	Aliphatics C5-C6	mg/kg	570000	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.9
	Xylene (m & p)	mg/kg		0.014	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.046
	Aliphatics C6-C7	µg/kg		300	200	200	200	300	300	300	300	200	200	200	200	200	300	200	900
	>C21-C35 Aliphatics	mg/kg		30	23.6	120	10.37	11.23	11.9	11.77	11.42	10.45	10.33	11	9.84	10.36	12	10.57	49.8
	>C8-C10	mg/kg		0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.9
	Xylene (o)	mg/kg	41000	0.014	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.046
	Aliphatics C7-C8	µg/kg		300	200	200	200	300	300	300	300	200	200	200	200	200	300	200	900
	>C8-C40 Aliphatics	mg/kg		44	34.4	142	23.7	26	27	26.9	26	24	24	24.6	22	23.7	26.5	24.1	91
	>C8-C40 Aromatics	mg/kg		96	41.9	256	23	26	34.4	27	26	24	43.8	24	22	23	26	24	168.5
	Acenaphthene	mg/kg	15000	0.11	0.1	0.5	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.09	0.09	0.1	0.1	0.37
	Acenaphthylene	mg/kg	15000	0.14	0.1	0.16	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.09	0.09	0.1	0.1	0.37
	Anthracene	mg/kg	74000	0.34	0.21	1.98	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.15	0.09	0.1	0.1	0.37
	Antimony	mg/kg		10.1	0.7	2.9	0.6	0.4	0.5	0.9	-	0.2	0.7	0.7	-	0.7	1.2	0.7	1.1
	Arsenic	mg/kg	79	12.2	8.4	6.4	7	4	8.3	12.9	3.7	5.9	7.5	9.7	6.5	6.8	6.8	7.8	14.3
	Barium	mg/kg		165	57.7	131	44.8	420	77.9	150	116	29	55.7	93.9	121	4370	512	77	149
UNK	Benz(a)anthracene	mg/kg	29	2.2	0.72	6.33	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.24	0.09	0.1	0.1	0.37
	Benzo(a) pyrene	mg/kg	5.7	2.84	0.86	4.91	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.2	0.09	0.1	0.1	0.37
	Benzo(b)fluoranthene	mg/kg	7.1	3.57	1.05	5.67	0.09	0.1	0.11	0.11	0.1	0.1	0.13	0.1	0.26	0.09	0.1	0.1	0.37
	Benzo(g,h,i)perylene	mg/kg	640	2.06	0.56	1.85	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.12	0.09	0.1	0.1	0.37
	Benzo(k)fluoranthene	mg/kg	190	1.46	0.47	2	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.12	0.09	0.1	0.1	0.37
	Beryllium	mg/kg	2.2	0.8	0.68	0.42	0.49	0.56	0.93	1.39	1.16	0.29	0.46	1.06	0.66	0.59	0.54	0.88	1.76
	Boron	mg/kg	21000	2.5	1.4	1.2	0.5	0.5	1.5	2.5	0.5	0.5	0.8	0.9	0.5	0.7	0.9	0.5	5.7
	Cadmium	mg/kg	120	0.36	0.2	0.21	0.2	0.2	0.2	0.22	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.2	0.4
	Chromium (hexavalent)	mg/kg	7.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	Chromium (III+VI)	mg/kg		27.3	25.8	16	16.6	25.1	34.4	115.4	42.1	16	22.3	28.8	28.6	26.7	23.4	24.5	65.8
	Chromium (Trivalent)	mg/kg	1500	27.3	25.8	16.2	16.6	25.1	34.4	115	42.1	16.2	22.2	28.8	28.6	26.7	23.4	24.5	65.8
	Chrysene	mg/kg	57	2.79	0.84	4.98	0.09	0.1	0.11	0.11	0.1	0.1	0.13	0.1	0.3	0.09	0.1	0.1	0.37
	Copper	mg/kg	12000	37.2	12.8	18.8	12	8.2	15.6	25.8	13.3	13.4	13	17.7	18.8	12.7	18.3	18	45.2
	Cyanide (Free)	mg/kg		0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.3
	Cyanide Total	mg/kg		0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.3
	Dibenz(a,h)anthracene	mg/kg	0.57	0.41	0.12	0.5	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.09	0.09	0.1	0.1	0.37
	Fluoranthene	mg/kg	3100	3.76	1.35	13.8	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.63	0.09	0.1	0.1	0.37
	Fluorene	mg/kg	9900	0.11	0.1	0.53	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.09	0.09	0.1	0.1	0.37
	Fraction Organic Carbon	-		3.98	0.77	1.8	0.7	0.41	2.08	2.03	0.72	0.23	0.82	0.36	0.31	0.33	1.96	0.26	25.4
	Indeno(1,2,3-c,d)pyrene	mg/kg	82	2.04	0.57	2.51	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.1	0.37
	Iron	mg/kg		24600	23700	12600	23800	19600	21100	33600	28900	14800	17800	28300	22300	24400	18000	28100	53200
	Lead	mg/kg	630	120.5	22.7	62	19.6	9.7	21	30.6	17.1	8.7	17.6	12.9	10	10.9	34.1	12.8	25.8
	Manganese	mg/kg		641	301.2	318.9	158.4	316	170	1025.5	313.5	346	331.9	475.2	518.1	255.8	303.2	532	599
	Mercury	mg/kg	16	0.51	0.5	1.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.54	0.5	1.1
	Moisture Content 105C	percent		26.8	19	14	13.8	22	26.4	24.8	23.3	16.2	15.2	16.3	11	14.6	22.4	16.3	78.1
	Molybdenum	mg/kg		1.5	0.8	0.9	0.6	0.7	1.6	2	0.5	0.5	0.5	0.6	0.7	0.7	1	0.6	3.4
	Naphthalene	mg/kg	4900	0.11	0.1	0.26	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.09	0.09	0.1	0.1	0.37
	Nickel	mg/kg	230	25	22.9	15	16.4	18.8	21.2	33	36	12.2	16	29.1	27.1	17.3	14.7	28.9	43.5
	pH (Lab)	pH_Units		7.8	8.3	6.6	7.2	10.2	10.3	6.5	7.1	7	8.5	8.2	8.8	7.6	7.4	7.7	7.8
	Phenanthrene	mg/kg	3100	0.87	0.57	5.41	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.1	0.48	0.09	0.1	0.1	0.37
	Pyrene	mg/kg	7400	3.65	1.2	10.88	0.09	0.1	0.11	0.11	0.1	0.1	0.11	0.1	0.49	0.09	0.1	0.1	0.37
	Selenium	mg/kg	1100	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
	Vanadium	mg/kg	2000	34	30.4	20.7	21.7	26.2	34.8	66	46.8	17	23	29	27.6	22.9	24.3	24.1	61.1
	Zinc	mg/kg	81000	177.1	75	83.7	41.2	45.3	50	75.1	100.3	31.5	51.8	42.5	46	30.2	43.4	43.6	87.8

			SampleCode	BH13240118SO0.8	BH14070218SO0.2	BH15070218SO0.2	BH17130218SO1	BH19230118SO0.8	TP01050218SO0.2	TP02050218SO1	TP03070218SO0.3	TP03070218SO1	TP10060218SO0.3	TP104070218SO0.3	TP105060218SO1	TP106310118SO0.3	TP107310118SO0.3	TP108300118SO1	TP109300118SO0.5	TP110180118SO1
			Location_Code	BH13	BH14	BH15	BH17	BH19	TP01	TP02	TP03	TP03	TP10	TP104	TP105	TP106	TP107	TP108	TP109	TP110
			Sampled_Date_Time	24/01/2018	07/02/2018	07/02/2018	13/02/2018	23/01/2018	05/02/2018	05/02/2018	07/02/2018	07/02/2018	06/02/2018	07/02/2018	06/02/2018	31/01/2018	31/01/2018	30/01/2018	30/01/2018	18/01/2018
			Sample_Depth_Range	0.8	0.2	0.2	1	0.8	0.2	1	0.3	1	0.3	0.3	1	0.3	0.3	1	0.5	1
			Matrix_Type	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
			Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
			SO LQM POS-Resi 1% SOM																	
Method_Name	ChemName	output unit																		
	MTBE	mg/kg		0.023	0.025	0.026	0.024	0.024	0.025	0.023	0.026	0.024	0.025	0.028	0.023	0.026	0.024	-	-	0.023
	PAH 16 Total	mg/kg		1.49	1.61	1.63	1.51	1.53	1.57	1.46	1.7	1.5	1.6	2.02	1.48	1.63	1.54	1.5	1.53	1.48
	SO4-- (acid sol)	mg/kg		85	514	803	118	139	407	33	576	54	371	801	25	399	281	96	311	37
	>EC8-EC10 Aromatics	mg/kg	5000	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5
	Benzene	mg/kg	72	0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.013	0.012	0.013	0.014	0.012	0.013	0.012	0.012	0.012	0.012
	% Stones >4mm	%		-	-	-	0	-	-	-	-	-	-	-	13.3	-	-	-	44.2	-
	>C8-C10 Aliphatics	mg/kg	13000	5	5	5	5	4.86	5	5	5	5	5	6	5	5	5	4.74	4.89	4.67
	>EC10-EC12 Aromatics	mg/kg	13000	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5	5
	GRO TOT uncorrected	mg/kg		0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2
	Toluene	mg/kg	56000	0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.013	0.012	0.013	0.014	0.012	0.013	0.012	0.012	0.012	0.012
	>C10-C12 Aliphatics	mg/kg	13000	5	5	5	5	4.86	5	5	5	5	5	6	5	5	5	4.74	4.89	4.67
	>EC12-EC16 Aromatics	mg/kg	5100	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5
	Ethylbenzene	mg/kg	24000	0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.013	0.012	0.013	0.014	0.012	0.013	0.012	0.012	0.012	0.012
	>C12-C16 Aliphatics	mg/kg	13000	5	5	5	5	4.86	5	5	5	5	5	6	5	5	5	4.74	4.89	4.67
	>EC16-EC21 Aromatics	mg/kg	3800	5	5	5	6.88	5	5	5	5	5	5	6	5	5	5	5	5	5
	>C16-C21 Aliphatics	mg/kg		5	5	5	5	4.86	5	5	5	5	5	6	5	5	5	4.74	4.89	4.67
	>EC21-EC35 Aromatics	mg/kg	3800	10.22	11.01	18.3	11.1	10.8	10.77	10	11.36	10.29	10.95	24.8	10.12	11.19	10.57	10.28	10.49	10.12
	Aliphatics C5-C6	mg/kg	570000	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2
	Xylene (m & p)	mg/kg		0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.013	0.012	0.013	0.014	0.012	0.013	0.012	0.012	0.012	0.012
	Aliphatics C6-C7	µg/kg		200	300	300	200	200	200	200	300	200	300	300	200	300	200	200	200	200
	>C21-C35 Aliphatics	mg/kg		10.22	11.01	11.19	10.31	10.66	10.77	10	11.36	10.29	10.95	12.36	10.12	11.19	10.57	10.39	10.71	10.22
	>C8-C10	mg/kg		0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2
	Xylene (o)	mg/kg	41000	0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.013	0.012	0.013	0.014	0.012	0.013	0.012	0.012	0.012	0.012
	Aliphatics C7-C8	µg/kg		200	300	300	200	200	200	200	300	200	300	300	200	300	200	200	200	200
	>C8-C40 Aliphatics	mg/kg		23	25	26	24	24.3	25	23	26	24	25	28	23	26	24	23.7	24.4	23.3
	>C8-C40 Aromatics	mg/kg		23	25	26	24	24	25	23	26	24	25	31.6	23	26	24	23	24	23
	Acenaphthene	mg/kg	15000	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Acenaphthylene	mg/kg	15000	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Anthracene	mg/kg	74000	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Antimony	mg/kg		0.8	-	-	0.7	0.9	0.8	0.6	1	0.7	0.6	1	0.6	0.8	0.6	0.6	0.5	0.5
	Arsenic	mg/kg	79	9.9	8.6	6.5	8.5	7.1	10.2	8.9	9.7	9	8.7	9	6.8	8.8	7.6	9.6	7.5	7
	Barium	mg/kg		138	54.6	61.3	58.7	181	45.2	78.8	128	101.6	52.7	105.1	57	71.9	50.9	67.2	50.9	55.8
UNK	Benz(a)anthracene	mg/kg	29	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Benzo(a) pyrene	mg/kg	5.7	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Benzo(b)fluoranthene	mg/kg	7.1	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.16	0.09	0.1	0.1	0.09	0.1	0.09
	Benzo(g,h,i)perylene	mg/kg	640	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Benzo(k)fluoranthene	mg/kg	190	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Beryllium	mg/kg	2.2	1.16	0.5	0.48	0.69	0.87	0.48	0.85	0.77	0.88	0.53	0.6	0.68	0.55	0.48	0.85	0.51	0.78
	Boron	mg/kg	21000	0.9	0.6	0.5	0.7	0.5	1	0.8	1.6	1	1	1.8	1	1.5	1	0.8	1	0.5
	Cadmium	mg/kg	120	0.2	0.21	0.21	0.2	0.26	0.21	0.2	0.21	0.2	0.21	0.22	0.2	0.21	0.21	0.2	0.2	0.2
	Chromium (hexavalent)	mg/kg	7.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Chromium (III+VI)	mg/kg		37.9	22.5	23.8	28.1	30.4	21.3	27.4	59.7	31	27.5	73.6	23.9	57.5	22.4	29.8	21.6	22
	Chromium (Trivalent)	mg/kg	1500	37.9	22.5	23.8	28.1	30.4	21.3	27.4	59.7	30.6	27.5	73.6	23.9	57.5	22.4	29.7	21.6	22
	Chrysene	mg/kg	57	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.12	0.09	0.1	0.16	0.09	0.1	0.1	0.09	0.1	0.09
	Copper	mg/kg	12000	18.9	17.2	15.1	13.5	15.8	16	18.5	22.8	19.3	17.7	25.4	15.9	21.8	13.8	13.8	11.5	15.5
	Cyanide (Free)	mg/kg		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
	Cyanide Total	mg/kg		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
	Dibenz(a,h)anthracene	mg/kg	0.57	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Fluoranthene	mg/kg	3100	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.13	0.09	0.1	0.18	0.09	0.1	0.1	0.09	0.1	0.09
	Fluorene	mg/kg	9900	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Fraction Organic Carbon	-		0.28	1.9	1.5	0.32	0.21	1.47	0.18	1.89	0.21	1.18	2.68	0.19	1.26	1.05	0.26	0.83	0.19
	Indeno(1,2,3-c,d)pyrene	mg/kg	82	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Iron	mg/kg		30100	22100	17200	28600	28100	19900	24500	23600	26800	21200	22300	20200	22100	17800	28300	24800	24200
	Lead	mg/kg	630	13.2	30	28.5	9.1	10	29.3	10	32.6	11.4	23.2	34.9	9	24.2	21.4	11.8	15	10.8
	Manganese	mg/kg		666	464	361.9	478.3	548	513.4	1390	626.6	618.4	419.5	811.1	382	744.7	392.5	286.2	481.5	593.2
	Mercury	mg/kg	16	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
	Moisture Content 105C	percent		14.3	20.4	21.7	15	16.1	18.7	12.4	22.9	14.9	20	29.1	13.4	21.7	17.1	14.8	16.5	13.4
	Molybdenum	mg/kg		0.5	1	0.7	0.5	0.6	0.9	0.5	1	0.5	0.8	1	0.6	1	0.6	0.5	0.7	0.5
	Naphthalene	mg/kg	4900	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Nickel	mg/kg	230	40.5	13.9	14.2	21	28	14.8	29.7	17	24.9	18.4	17.9	18.9	16.4	14.7	24.3	15.8	19.2
	pH (Lab)	pH_Units		7.6	6.8	6.3	8.6	7.6	6.4	7.5	6.8	7.8	6.4	6.1	7.2	6.9	6.5	7.5	7.2	7.5
	Phenanthrene	mg/kg	3100	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.11	0.09	0.1	0.1	0.09	0.1	0.09
	Pyrene	mg/kg	7400	0.09	0.1	0.1	0.09	0.1	0.1	0.09	0.12	0.09	0.1	0.16	0.09	0.1	0.1	0.09	0.1	0.09
	Selenium	mg/kg	1100	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.8	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
	Vanadium	mg/kg	2000	35.2	29.5	29.7	27.2	24.3	25.4	27.8	36.6	29.7	32	36	22.7	38.4	26.9	29.7	26	22.3
	Zinc	mg/kg	81000	54	48.6	60.2	39.5	38.6	48.2	40.2	62.5	36.8	44.1	62.3	31.6	48	38.3	38.7	35	29.9

			SampleCode	TP14080318SO1	TP15150218SO0.2	WS102250118SO0.5	WS103190218SO0.7	WS104140218SO0.5	WS104140218SO1	WS105230218SO0.5	WS106230118SO0.5	WS107120218SO0.6	WS108090218SO0.3	WS109080218SO0.2	WS111240118SO1	WS112250118SO0.5	WS113150318SO0.5	WS113150318SO2
			Location_Code	TP14	TP15	WS102	WS103	WS104	WS104	WS105	WS106	WS107	WS108	WS109	WS111	WS112	WS113	WS113
			Sampled_Date_Time	08/03/2018	15/02/2018	25/01/2018	19/02/2018	14/02/2018	14/02/2018	23/02/2018	23/01/2018	12/02/2018	09/02/2018	08/02/2018	24/01/2018	25/01/2018	15/03/2018	15/03/2018
			Sample_Depth_Range	1	0.2	0.5	0.7	0.5	1	0.5	0.5	0.6	0.3	0.2	1	0.5	0.5	2
			Matrix_Type	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
			Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
			SO LQM POS-Resi 1% SOM															
Method_Name	ChemName	output unit																
	MTBE	mg/kg		0.024	0.023	-	0.027	0.023	0.023	0.087	0.032	0.026	0.026	0.029	0.024	-	0.0253	0.0313
	PAH 16 Total	mg/kg		1.51	1.48	4.16	1.74	1.48	1.48	5.57	2.03	1.67	1.67	1.84	1.5	1.51	2.51	2
	SO4-- (acid sol)	mg/kg		67	253	394	541	113	102	2240	651	290	261	1820	154	217	360	731
	>EC8-EC10 Aromatics	mg/kg	5000	5	5	5	5	5	5	17	6	5	5	6	5	5	5	6
	Benzene	mg/kg	72	0.012	0.012	0.012	0.014	0.012	0.012	0.043	0.016	0.013	0.013	0.014	0.012	0.012	0.013	0.016
	% Stones >4mm	%		-	-	-	-	-	-	-	0	-	-	-	-	-	-	-
	>C8-C10 Aliphatics	mg/kg	13000	5	5	4.98	5	5	5	17	6	5	5	6	5	4.87	5	6.32
	>EC10-EC12 Aromatics	mg/kg	13000	5	5	5	5	5	5	17	6	5	5	6	5	5	5	6
	GRO TOT uncorrected	mg/kg		0.2	0.2	0.2	0.3	0.2	0.2	0.9	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3
	Toluene	mg/kg	56000	0.012	0.012	0.012	0.014	0.012	0.012	0.043	0.016	0.013	0.013	0.014	0.012	0.012	0.013	0.016
	>C10-C12 Aliphatics	mg/kg	13000	5	5	4.98	5	5	5	17	6	5	5	6	5	4.87	5	6.32
	>EC12-EC16 Aromatics	mg/kg	5100	5	5	5	5	5	5	17	6	5	5	6	5	5	5	6
	Ethylbenzene	mg/kg	24000	0.012	0.012	0.012	0.014	0.012	0.012	0.043	0.016	0.013	0.013	0.014	0.012	0.012	0.013	0.016
	>C12-C16 Aliphatics	mg/kg	13000	5	5	4.98	5	5	5	17	6	5	5	6	5	4.87	5	6.32
	>EC16-EC21 Aromatics	mg/kg	3800	5	5	5	5	5	5	17	6	5	5	6	5	5	8.78	10.66
	>C16-C21 Aliphatics	mg/kg		5	5	4.98	5	5	5	17	6	5	5	6	5	4.87	5	6.32
	>EC21-EC35 Aromatics	mg/kg	3800	10.33	10.12	10.79	11.93	10.15	10.14	38.09	13.86	11.45	11.41	12.62	10.29	10.35	11.06	13.83
	Aliphatics C5-C6	mg/kg	570000	0.2	0.2	0.2	0.3	0.2	0.2	0.9	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3
	Xylene (m & p)	mg/kg		0.012	0.012	0.012	0.014	0.012	0.012	0.043	0.016	0.013	0.013	0.014	0.012	0.012	0.013	0.016
	Aliphatics C6-C7	µg/kg		200	200	200	300	200	200	900	300	300	300	300	200	200	300	300
	>C21-C35 Aliphatics	mg/kg		10.33	14.3	10.9	11.93	10.15	10.14	38.09	13.86	11.45	11.41	12.62	10.29	10.8	11.06	13.85
	>C8-C10	mg/kg		0.2	0.2	0.2	0.3	0.2	0.2	0.9	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3
	Xylene (o)	mg/kg	41000	0.012	0.012	0.012	0.014	0.012	0.012	0.043	0.016	0.013	0.013	0.014	0.012	0.012	0.013	0.016
	Aliphatics C7-C8	µg/kg		200	200	200	300	200	200	900	300	300	300	300	200	200	300	300
	>C8-C40 Aliphatics	mg/kg		24	23	24.9	27	23	23	87	32	26	26	29	24	24.3	25	31.6
	>C8-C40 Aromatics	mg/kg		24	23	25	27	23	23	87	32	26	26	29	24	24	25	31.8
	Acenaphthene	mg/kg	15000	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Acenaphthylene	mg/kg	15000	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Anthracene	mg/kg	74000	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Antimony	mg/kg		0.5	0.3	0.7	0.6	-	-	0.4	1.2	-	-	-	0.7	0.4	0.8	1.4
	Arsenic	mg/kg	79	6.3	7.2	8.5	10	8.5	6.4	10.6	17.9	6	7	15.2	7.4	6.1	8.7	10.8
	Barium	mg/kg		103	45.5	76	68.8	74.5	63.3	210	234	100.3	124	241	105	81.3	74.1	110.4
UNK	Benz(a)anthracene	mg/kg	29	0.09	0.09	0.32	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.18	0.13
	Benzo(a) pyrene	mg/kg	5.7	0.09	0.09	0.34	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.16	0.13
	Benzo(b)fluoranthene	mg/kg	7.1	0.09	0.09	0.52	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.21	0.13
	Benzo(g,h,i)perylene	mg/kg	640	0.09	0.09	0.23	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Benzo(k)fluoranthene	mg/kg	190	0.09	0.09	0.22	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.11	0.13
	Beryllium	mg/kg	2.2	0.79	0.45	0.65	0.54	0.7	0.58	0.59	1.5	0.56	1.01	1.3	0.68	0.54	0.55	0.78
	Boron	mg/kg	21000	0.5	0.6	1.3	1.1	0.5	0.5	3.6	1.5	0.6	1	0.9	0.7	1	1.1	1.4
	Cadmium	mg/kg	120	0.2	0.2	0.21	0.2	0.2	0.2	0.32	0.22	0.2	0.2	0.26	0.2	0.2	0.2	0.36
	Chromium (hexavalent)	mg/kg	7.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Chromium (III+VI)	mg/kg		28.5	23.6	22.7	20.6	29.1	24.9	17	54.1	25.7	40.3	46	25.4	18.5	21.1	32.6
	Chromium (Trivalent)	mg/kg	1500	28.5	23.6	22.7	20.6	29.1	24.9	17	54.1	25.7	40.3	46	25.4	18.5	21.1	32.6
	Chrysene	mg/kg	57	0.09	0.09	0.46	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.21	0.13
	Copper	mg/kg	12000	13.9	11.7	18.4	21.7	12.8	12	17.2	26	7.7	10	19.4	14.5	9.8	19.5	31
	Cyanide (Free)	mg/kg		0.6	0.6	0.6	0.7	0.6	0.6	2.2	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.8
	Cyanide Total	mg/kg		0.6	0.6	0.6	0.7	0.6	0.6	2.2	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.8
	Dibenz(a,h)anthracene	mg/kg	0.57	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Fluoranthene	mg/kg	3100	0.09	0.09	0.58	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.35	0.13
	Fluorene	mg/kg	9900	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Fraction Organic Carbon	-		0.17	0.57	2.15	2.16	0.29	0.26	-	2.24	0.68	1.01	2.86	0.31	0.6	1.27	2.64
	Indeno(1,2,3-c,d)pyrene	mg/kg	82	0.09	0.09	0.26	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Iron	mg/kg		21100	22900	21900	18400	24000	20000	14700	38300	19400	29000	52700	21400	22000	22800	27400
	Lead	mg/kg	630	9	31.3	30.3	28.4	10.6	8.8	17.2	31	10	16.8	42.2	9.7	12.9	35.6	52
	Manganese	mg/kg		272.5	352	458.4	406	443	309.6	169.7	361.9	163.6	238	863.6	538.2	390.4	375	465
	Mercury	mg/kg	16	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.54	0.5	0.5	0.6	0.5	0.5	0.52	0.64
	Moisture Content 105C	percent		15.2	13.4	18.8	26.6	13.7	13.6	77	36.8	23.5	23.2	30.6	14.9	15.4	20.8	36.1
	Molybdenum	mg/kg		0.5	0.5	0.8	0.6	0.5	0.5	1.6	1.2	0.6	0.9	1.7	0.7	0.6	1	1.5
	Naphthalene	mg/kg	4900	0.09	0.09	0.1	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.1	0.13
	Nickel	mg/kg	230	25.6	14	19	15.6	21.4	18.8	13.2	37.6	19.2	32.8	31.1	22.7	14.3	16	23
	pH (Lab)	pH_Units		8.5	7.2	7.7	8	8.3	8.2	6.6	7.1	7.2	7.6	7.4	7.9	8	8.2	6.1
	Phenanthrene	mg/kg	3100	0.09	0.09	0.16	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.21	0.13
	Pyrene	mg/kg	7400	0.09	0.09	0.49	0.11	0.09	0.09	0.35	0.13	0.1	0.1	0.12	0.09	0.09	0.28	0.13
	Selenium	mg/kg	1100	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1	0.5	0.7	0.8	0.5	0.5	0.5	0.6
	Vanadium	mg/kg	2000	27.2	25.9	23.4	22	29.7	25	22.4	60.4	28.1	42.5	69.4	25.4	21.1	23.2	34.7
	Zinc	mg/kg	81000	37.4	29.9	52.1	49.6	37.3	31.3	39	69	43.2	74.2	89.6	33.5	32	54.7	93.3

			SampleCode	WS114190218SO0.5	WS114190218SO1	WS115190218SO0.5
			Location_Code	WS114	WS114	WS115
			Sampled_Date_Time	19/02/2018	19/02/2018	19/02/2018
			Sample_Depth_Range	0.5	1	0.5
			Matrix_Type	SO	SO	SO
			Sample_Type	Normal	Normal	Normal
			SO LQM POS-Resi 1% SOM			
Method_Name	ChemName	output unit				
	MTBE	mg/kg		0.025	0.025	0.029
	PAH 16 Total	mg/kg		2.3	5.83	1.87
	SO4-- (acid sol)	mg/kg		525	377	464
	>EC8-EC10 Aromatics	mg/kg	5000	5	5	6
	Benzene	mg/kg	72	0.012	0.013	0.015
	% Stones >4mm	%		30.6	37.2	-
	>C8-C10 Aliphatics	mg/kg	13000	5	5	6
	>EC10-EC12 Aromatics	mg/kg	13000	5	5	6
	GRO TOT uncorrected	mg/kg		0.2	0.3	0.3
	Toluene	mg/kg	56000	0.012	0.013	0.015
	>C10-C12 Aliphatics	mg/kg	13000	5	5	6
	>EC12-EC16 Aromatics	mg/kg	5100	5	5	6
	Ethylbenzene	mg/kg	24000	0.012	0.013	0.015
	>C12-C16 Aliphatics	mg/kg	13000	5	5	6
	>EC16-EC21 Aromatics	mg/kg	3800	5	5	6
	>C16-C21 Aliphatics	mg/kg		5	5	6
	>EC21-EC35 Aromatics	mg/kg	3800	10.81	26	12.81
	Aliphatics C5-C6	mg/kg	570000	0.2	0.3	0.3
	Xylene (m & p)	mg/kg		0.012	0.013	0.015
	Aliphatics C6-C7	µg/kg		200	300	300
	>C21-C35 Aliphatics	mg/kg		10.81	10.96	12.81
	>C8-C10	mg/kg		0.2	0.3	0.3
	Xylene (o)	mg/kg	41000	0.012	0.013	0.015
	Aliphatics C7-C8	µg/kg		200	300	300
	>C8-C40 Aliphatics	mg/kg		25	25	29
	>C8-C40 Aromatics	mg/kg		25	35.3	29
	Acenaphthene	mg/kg	15000	0.1	0.1	0.12
	Acenaphthylene	mg/kg	15000	0.1	0.1	0.12
	Anthracene	mg/kg	74000	0.1	0.1	0.12
	Antimony	mg/kg		1.2	1.1	0.5
	Arsenic	mg/kg	79	8	9	10
	Barium	mg/kg		64.4	75.4	150
UNK	Benz(a)anthracene	mg/kg	29	0.16	0.46	0.12
	Benzo(a) pyrene	mg/kg	5.7	0.2	0.65	0.12
	Benzo(b)fluoranthene	mg/kg	7.1	0.23	0.79	0.12
	Benzo(g,h,i)perylene	mg/kg	640	0.16	0.46	0.12
	Benzo(k)fluoranthene	mg/kg	190	0.1	0.34	0.12
	Beryllium	mg/kg	2.2	0.54	0.64	1.3
	Boron	mg/kg	21000	1	1	1.2
	Cadmium	mg/kg	120	0.2	0.24	0.2
	Chromium (hexavalent)	mg/kg	7.7	0.1	0.1	0.1
	Chromium (III+VI)	mg/kg		17.7	21.6	50.1
	Chromium (Trivalent)	mg/kg	1500	17.7	21.6	50.1
	Chrysene	mg/kg	57	0.2	0.61	0.12
	Copper	mg/kg	12000	21.5	25.5	16.3
	Cyanide (Free)	mg/kg		0.6	0.6	0.7
	Cyanide Total	mg/kg		0.6	0.6	0.7
	Dibenz(a,h)anthracene	mg/kg	0.57	0.1	0.1	0.12
	Fluoranthene	mg/kg	3100	0.2	0.64	0.12
	Fluorene	mg/kg	9900	0.1	0.1	0.12
	Fraction Organic Carbon	-		0.98	1.47	1.69
	Indeno(1,2,3-c,d)pyrene	mg/kg	82	0.14	0.43	0.12
	Iron	mg/kg		18600	22100	35900
	Lead	mg/kg	630	63	63.9	24
	Manganese	mg/kg		414	487	192
	Mercury	mg/kg	16	0.5	0.5	0.5
	Moisture Content 105C	percent		19	20.1	31.6
	Molybdenum	mg/kg		0.8	0.8	0.6
	Naphthalene	mg/kg	4900	0.1	0.1	0.12
	Nickel	mg/kg	230	16.2	18.6	31.9
	pH (Lab)	pH_Units		8.8	8.6	6.7
	Phenanthrene	mg/kg	3100	0.1	0.16	0.12
	Pyrene	mg/kg	7400	0.22	0.69	0.12
	Selenium	mg/kg	1100	0.5	0.5	0.6
	Vanadium	mg/kg	2000	21.6	25	60.6
	Zinc	mg/kg	81000	66.4	114.4	57.2

			SampleCode	BH01130218SL2	BH105220118SL0.8	BH107160118SL1	BH10A280218SL1	BH17130218SL1	TP105060218SL1	TP109300118SL0.5	WS106230118SL0.5	WS114190218SL0.5	WS114190218SL1
			Location_Code	BH01	BH105	BH107	BH10A	BH17	TP105	TP109	WS106	WS114	WS114
			Sampled_Date_Time	13/02/2018	22/01/2018	16/01/2018	28/02/2018	13/02/2018	06/02/2018	30/01/2018	23/01/2018	19/02/2018	19/02/2018
			Sample_Depth_Avg	2	0.8	1	1	1	1	0.5	0.5	0.5	1
			Matrix_Type	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
ChemName	output unit	EQS Fresh Water <50 ug CaCO3/l	UK Drinking Water Standard										
Phenol	µg/L	7.7	7.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cresol Total	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulphur (Total Oxidised as SO4)	µg/L			9000	3000	3000	3000	5000	6000	3000	3000	3000	3000
Chloride	µg/L			7000	2000	1000	2000	5000	11000	3000	15000	3000	3000
Chromium (hexavalent)	µg/L	3.4	50	<3	<3	10	<3	20	<3	10	<3	<3	<3
Trimethylphenols	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Lead	µg/L	1.2	10	<1	<1	<1	<1	<1	<1	30	20	10	<1
Mercury	µg/L	0.05		0.1	0.1	0.1	<0.005	0.1	<0.005	<0.005	0.1	0.1	0.1
Molybdenum	µg/L	70		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	µg/L	4	20	<1	<1	<1	<1	<1	<1	<1	20	<1	<1
Antimony	µg/L			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	µg/L	50		<1	<1	<1	<1	<1	<1	<1	<1	10	<1
Barium	µg/L	700		<10	<10	<10	<10	20	20	20	350	<10	<10
Beryllium	µg/L			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Boron	µg/L	2000	1000	<10	150	210	<10	20	<10	30	<10	<10	<10
Cadmium	µg/L	0.08	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (III+VI)	µg/L			<1	<1	<1	<1	<1	<1	<1	10	<1	<1
Copper	µg/L	1	2000	<1	<1	<1	<1	<1	<1	10	20	<1	<1
Zinc	µg/L	12.1	3000	10	<2	<2	<2	10	<2	10	20	30	10
Calcium	µg/L			25000	2000	2000	17000	13000	-	4000	2000	18000	26000
Selenium	µg/L	10	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ammoniacal Nitrogen as N	µg/L			20	200	20	20	<10	30	90	70	30	60
Dissolved Organic Carbon	µg/L			4300	8100	4200	1400	3600	2400	9800	44000	3200	3500
Dimethylphenoles	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (Trivalent)	µg/L	4.7	50	<1	<1	<1	<1	20	<1	3	10	<1	<1
Cyanide (Free)	µg/L			<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Cyanide Total	µg/L			<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Iron	µg/L			700	650	220	430	3650	-	1200	140	880	660

				SampleCode	BH04280318WG2.29	BH08280318WG0.88	BH101270318WG3.8	BH103270318WG2.1	BH1040403 18WG1.6	BH10A260318WG0.9	BH13270318WG1.83	BH14260318WG2.2	BH19260318WG6.7
				Location_Code	BH04	BH08	BH101	BH103	BH104	BH10A	BH13	BH14	BH19
				ampled_Date_Tir	28/03/2018	28/03/2018	27/03/2018	27/03/2018	04/03/2018	26/03/2018	27/03/2018	26/03/2018	26/03/2018
				ample_Depth_A	2.29	0.88	3.8	2.1	1.6	0.9	1.83	2.2	6.7
				Matrix_Type	WG	WG	WG	WG	WG	WG	WG	WG	WG
				Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
ChemName	output unit	EQS Fresh Wate	UK Drinking Wa										
Alkalinity (Bicarbonate as CaCO3)	µg/L			383000	-	17000	81000	641000	399000	265000	292000	145000
Ammonia (Free as N)	µg/L			<10	<10	-	-	-	-	-	-	-
Diphenyl ether	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Ammoniacal Nitrogen as NH4	µg/L			-	-	120	100	390	150	90	30	390
MTBE	µg/L	15	15	< 10	< 10	<10	<10	< 10	<10	<10	<10	<10
PAH 16 Total	µg/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
>EC8-EC10 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
1,1,1,2-tetrachloroethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	µg/L	10	1	< 5	< 5	< 5	< 5	< 5	<5	< 5	<5	< 5
>C8-C10 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
>EC10-EC12 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
1,1,1-trichloroethane	µg/L	100	2000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
GRO TOT uncorrected	µg/L			-	-	-	-	-	<100	-	<100	-
Toluene	µg/L	74	700	< 5	< 5	< 5	< 5	< 5	<5	< 5	<5	< 5
>C10-C12 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
>EC12-EC16 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
1,1,2,2-tetrachloroethane	µg/L	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	µg/L	20	300	< 5	< 5	< 5	< 5	< 5	<5	< 5	<5	< 5
>C12-C16 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
>EC16-EC21 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
1,1,2-trichloroethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
>C16-C21 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
>EC21-EC35 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
Aliphatics C5-C6	µg/L			-	-	-	-	-	<100	-	<100	-
Xylene (m & p)	µg/L	30	500	< 10	< 10	< 10	< 10	< 10	<5	< 10	<5	< 10
>C21-C35 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
>C8-C10	µg/L			-	-	-	-	-	<100	-	<100	-
1,1-Biphenyl	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Aliphatics C6-C7	µg/L			-	-	-	-	-	<100	-	<100	-
Xylene (o)	µg/L	30	500	< 1	< 5	< 5	< 1	< 1	<5	< 1	<5	< 1
1,1-dichloroethane	µg/L	2.7	2.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aliphatics C7-C8	µg/L			-	-	-	-	-	<100	-	<100	-
Xylene Total	µg/L	30	500	< 15	< 15	-	-	<15	-	-	-	-
>C8-C40 Aliphatics	µg/L			<10	<10	<10	<10	-	<10	<10	<10	<10
1,1-dichloroethene	µg/L	140	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
>C8-C40 Aromatics	µg/L			<10	<10	<10	<10	-	<10	<10	10	<10
1,1-dichloropropene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-trichlorobenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-trichloropropane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-trichlorobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
1,2,4-trimethylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-dibromo-3-chloropropane	µg/L			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-dibromoethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-dichlorobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
1,2-dichloroethane	µg/L	10	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-dichloropropane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-trimethylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-dichlorobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
1,3-dichloropropane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-dichlorobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
1-Methylnaphthalene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
2,2-dichloropropane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-trichlorophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
2,4,6-trichlorophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
2,4-dichlorophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
2,4-dimethylphenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
2,4-dinitrophenol	µg/L			< 40	< 40	< 10	< 10	< 20	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
2,6-dinitrotoluene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
2-chloronaphthalene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
2-chlorophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
2-chlorotoluene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-methylnaphthalene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
2-methylphenol	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
2-nitroaniline	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
2-nitrophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
3-&4-methylphenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20

				SampleCode	BH04280318WG2.29	BH08280318WG0.88	BH101270318WG3.8	BH103270318WG2.1	BH1040403 18WG1.6	BH10A260318WG0.9	BH13270318WG1.83	BH14260318WG2.2	BH19260318WG6.7
				Location_Code	BH04	BH08	BH101	BH103	BH104	BH10A	BH13	BH14	BH19
				ampled_Date_Tir	28/03/2018	28/03/2018	27/03/2018	27/03/2018	04/03/2018	26/03/2018	27/03/2018	26/03/2018	26/03/2018
				ample_Depth_A	2.29	0.88	3.8	2.1	1.6	0.9	1.83	2.2	6.7
				Matrix_Type	WG	WG	WG	WG	WG	WG	WG	WG	WG
				Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
		EQS Fresh Wate	UK Drinking Wa										
ChemName	output unit												
Trimethylphenols	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3-nitroaniline	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4,6-Dinitro-2-methylphenol	µg/L			< 200	< 200	< 50	< 50	< 100	< 50	< 50	< 50	< 50
4-bromophenyl phenyl ether	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4-chloro-3-methylphenol	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4-chloroaniline	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4-chlorophenol	µg/L			< 80	< 80	< 20	< 20	< 40	< 20	< 20	< 20	< 20
4-chlorophenyl phenyl ether	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4-chlorotoluene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-nitroaniline	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
4-nitrophenol	µg/L			< 200	< 200	< 50	< 50	< 100	< 50	< 50	< 50	< 50
Acenaphthene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Acenaphthylene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Ammoniacal Nitrogen as N	µg/L			10	230	90	80	300	120	70	20	300
Coronene	µg/L			< 200	< 200	< 50	< 50	< 100	< 50	< 50	< 50	< 50
Anthracene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Antimony	µg/L			<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	µg/L	50		<1	20	<1	10	10	<1	10	<1	<1
Barium	µg/L	700		210	110	120	140	60	270	210	40	140
Benz(a)anthracene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Benzo(a) pyrene	µg/L	0.00017	0.01	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Benzo(b)fluoranthene	µg/L		0.025	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Benzo(g,h,i)perylene	µg/L		0.025	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Benzo(k)fluoranthene	µg/L		0.025	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Benzoic Acid	µg/L			< 400	< 400	< 100	< 100	< 200	< 100	< 100	< 100	< 100
Benzyl alcohol	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Beryllium	µg/L			<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Bis(2-chloroethyl)ether	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Bis(2-chloroisopropyl) ether	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Bis(2-ethylhexyl) phthalate	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Boron	µg/L	2000	1000	120	80	40	40	310	30	50	<10	70
Bromobenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Butyl benzyl phthalate	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Cadmium	µg/L	0.08	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	µg/L			123000	109000	106000	115000	67000	142000	115000	35000	63000
Carbon tetrachloride	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloride	µg/L			33000	32000	77000	129000	219000	88000	127000	22000	38000
Chlorobenzene	µg/L	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	µg/L	2.5	300	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chromium (hexavalent)	µg/L	3.4	50	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium (III+VI)	µg/L			<1	<1	10	<10	<1	<1	30	<1	60
Chromium (Trivalent)	µg/L	4.7	50	80	20	10	< 10	30	< 1	< 30	<1	< 60
Chrysene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
cis-1,2-dichloroethene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-dichloropropene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Copper	µg/L	1	2000	<1	<1	<1	<1	10	<1	<1	<1	<1
Calculated Bioavaliable Fraction - Copper	µg/L	1		0.06	0.03	0.08	0.05	0.37	0.13	0.07	0.39	0.12
Cresol Total	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Free)	µg/L			<20	<20	<20	<20	<20	<20	<20	<20	<20
Cyanide Total	µg/L			<20	<20	<20	<20	<20	<20	<20	<20	<20
Dibenz(a,h)anthracene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Dibenzofuran	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Dibromomethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Dimethyl phthalate	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Dimethylphenoles	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5

				SampleCode	BH04280318WG2.29	BH08280318WG0.88	BH101270318WG3.8	BH103270318WG2.1	BH104040318WG1.6	BH10A260318WG0.9	BH13270318WG1.83	BH14260318WG2.2	BH19260318WG6.7
				Location_Code	BH04	BH08	BH101	BH103	BH104	BH10A	BH13	BH14	BH19
				ampled_Date_Tir	28/03/2018	28/03/2018	27/03/2018	27/03/2018	04/03/2018	26/03/2018	27/03/2018	26/03/2018	26/03/2018
				ample_Depth_A	2.29	0.88	3.8	2.1	1.6	0.9	1.83	2.2	6.7
				Matrix_Type	WG	WG	WG	WG	WG	WG	WG	WG	WG
				Sample_Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
ChemName	output unit	EQS Fresh Wate	UK Drinking Wa										
Di-n-octyl phthalate	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Dissolved Organic Carbon	µg/L			4100	9000	3000	4900	16000	2000	3400	1400	2500
Fluoranthene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Fluorene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Hexachlorobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Hexachlorobutadiene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Hexachlorocyclopentadiene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Hexachloroethane	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Indeno(1,2,3-c,d)pyrene	µg/L		0.025	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Isophorone	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Isopropylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	µg/L	1.2	10	<1	<1	<1	10	<1	<1	<1	<1	<1
Mercury	µg/L	0.05	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum	µg/L	70	70	<1	<1	<1	10	20	<1	<1	<1	<1
Naphthalene	µg/L	2	2	< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
n-butylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nickel	µg/L	4	20	<1	<1	<1	<1	20	<1	<1	<1	10
Calculated Bioavaliable Fraction - Nickel	µg/L	4		0.27	0.21	0.33	0.29	3.59	0.38	0.32	0.18	2.01
Nitrate (as N)	µg/L			<200	<200	<200	<200	<200	<200	<200	6000	2400
Nitrobenzene	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
N-nitrosodi-n-propylamine	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
n-Nitrosodiphenylamine	µg/L			< 20	< 20	< 5	< 5	< 10	< 5	< 5	< 5	< 5
n-propylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	µg/L			< 200	< 200	< 50	< 50	< 100	< 50	< 50	< 50	< 50
pH (Lab)	pH_Units			7.5	7.7	7.6	7.7	7.9	7.6	7.6	6.4	6.8
Phenanthrene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Phenol	µg/L	7.7	7.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-isopropyltoluene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	µg/L			< 8	< 8	< 2	< 2	< 4	< 2	< 2	< 2	< 2
sec-butylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Selenium	µg/L	10	10	<1	<1	<1	<1	10	<1	<1	<1	<1
Styrene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sulphide	µg/L			<20	20	<20	80	<20	<20	<20	<20	80
Sulphur (Total Oxidised as SO4)	µg/L			48000	36000	162000	43000	1160000	122000	53000	10000	47000
Trichloroethene	µg/L	10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-butylbenzene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-dichloroethene	µg/L	25	25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-dichloropropene	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichlorofluoromethane	µg/L			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Vinyl chloride	µg/L	0.5	0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Zinc	µg/L	12.1	3000	30	20	<2	20	30	10	100	20	170
Calculated Bioavaliable Fraction - Zinc	µg/L	12.1		13.06	5.44	0.1	7.84	4.64	5.38	46.62	13.63	95.64
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	µg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Waste Classification Report

EFLFX-8NPD7-LBXF2

Job name

A585Windy Harbour

Description/Comments

UA009921 A585 Windy Harbour to Skippool

Project

10013463

Site

A585 Windy Harbour to Skippool

Waste Stream Template

A585 Windy Harbour

Classified by

Name:
Simon Hay
Date:
08 May 2018 09:59 GMT
Telephone:
01638 674564

Company:
Arcadis Consulting (UK) Ltd
3rd Floor, Charter House
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Report

Created by: Simon Hay
Created date: 08 May 2018 09:59 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	BH01	0.5	Non Hazardous		3
2	BH01[1]	2	Non Hazardous		6
3	BH01A	0.5	Non Hazardous		9
4	BH04	0.5	Non Hazardous		12
5	BH05	1	Non Hazardous		15
6	BH06	0.5	Non Hazardous		18
7	BH07	0.5	Non Hazardous		21
8	BH08	0.5	Non Hazardous		24
9	BH10	0.5	Non Hazardous		27
10	BH101	1	Non Hazardous		30
11	BH103	0.8	Non Hazardous		33
12	BH104	1	Non Hazardous		36
13	BH105	0.8	Non Hazardous		39
14	BH106	0.3	Non Hazardous		42
15	BH107	1	Non Hazardous		45
16	BH11A	1	Non Hazardous		48

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
17	BH13	0.8	Non Hazardous		51
18	BH14	0.2	Non Hazardous		54
19	BH15	0.2	Non Hazardous		57
20	BH17	1	Non Hazardous		60
21	BH19	0.8	Non Hazardous		63
22	TP01	0.2	Non Hazardous		66
23	TP02	1	Non Hazardous		69
24	TP03	0.3	Non Hazardous		72
25	TP03[1]	1	Non Hazardous		75
26	TP10	0.3	Non Hazardous		78
27	TP104	0.3	Non Hazardous		81
28	TP105	1	Non Hazardous		84
29	TP106	0.3	Non Hazardous		87
30	TP107	0.3	Non Hazardous		90
31	TP108	1	Non Hazardous		93
32	TP109	0.5	Non Hazardous		96
33	TP110	1	Non Hazardous		99
34	TP14	1	Non Hazardous		102
35	TP15	0.2	Non Hazardous		105
36	WS102	0.5	Non Hazardous		108
37	WS103	0.7	Non Hazardous		111
38	WS104	0.5	Non Hazardous		114
39	WS104[1]	1	Non Hazardous		117
40	WS105	0.5	Non Hazardous		120
41	WS106	0.5	Non Hazardous		123
42	WS107	0.6	Non Hazardous		126
43	WS108	0.3	Non Hazardous		129
44	WS109	0.2	Non Hazardous		132
45	WS111	1	Non Hazardous		135
46	WS112	0.5	Non Hazardous		138
47	WS113	0.5	Non Hazardous		141
48	WS113[1]	2	Non Hazardous		144
49	WS114	0.5	Non Hazardous		147
50	WS114[1]	1	Non Hazardous		150
51	WS115	0.5	Non Hazardous		153

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Appendix A: Classifier defined and non CLP determinands	156
Appendix B: Rationale for selection of metal species	158
Appendix C: Version	159

Classification of sample: BH01

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

Sample details

Sample Name:
BH01
Sample Depth:
0.5 m
Moisture content:
26.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 26.8% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.8	pH		7.8	pH	7.8 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		0.14	mg/kg		0.11	mg/kg	0.000011 %	✓	
6		acenaphthene		201-469-6	83-32-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		0.87	mg/kg		0.686	mg/kg	0.0000686 %	✓	
9		anthracene		204-371-1	120-12-7		0.34	mg/kg		0.268	mg/kg	0.0000268 %	✓	
10		fluoranthene		205-912-4	206-44-0		3.76	mg/kg		2.965	mg/kg	0.000297 %	✓	
11		pyrene		204-927-3	129-00-0		3.65	mg/kg		2.879	mg/kg	0.000288 %	✓	
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.2	mg/kg		1.735	mg/kg	0.000174 %	✓	
13		chrysene	601-048-00-0	205-923-4	218-01-9		2.79	mg/kg		2.2	mg/kg	0.00022 %	✓	
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3.57	mg/kg		2.815	mg/kg	0.000282 %	✓	

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.46	mg/kg		1.151	mg/kg	0.000115 %	✓	
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.84	mg/kg		2.24	mg/kg	0.000224 %	✓	
17		indeno[123-cd]pyrene		205-893-2	193-39-5		2.04	mg/kg		1.609	mg/kg	0.000161 %	✓	
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.41	mg/kg		0.323	mg/kg	0.0000323 %	✓	
19		benzo[ghi]perylene		205-883-8	191-24-2		2.06	mg/kg		1.625	mg/kg	0.000162 %	✓	
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.2	mg/kg	1.32	12.703	mg/kg	0.00127 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		165	mg/kg	1.437	186.988	mg/kg	0.0187 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.8	mg/kg	8.868	5.595	mg/kg	0.000559 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		2.5	mg/kg	23.173	45.688	mg/kg	0.00457 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.36	mg/kg	1.285	0.365	mg/kg	0.0000284 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<27.3	mg/kg	1.462	<39.9	mg/kg	<0.00399 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		37.2	mg/kg	3.929	115.269	mg/kg	0.0115 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	120.5	mg/kg		95.032	mg/kg	0.0095 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.51	mg/kg	1.353	<0.69	mg/kg	<0.000069 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		25	mg/kg	1.579	31.142	mg/kg	0.00311 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		34	mg/kg	1.785	47.868	mg/kg	0.00479 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		177.1	mg/kg	2.469	344.884	mg/kg	0.0345 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.027	mg/kg		<0.027	mg/kg	<0.0000027 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		140	mg/kg		110.41	mg/kg	0.011 %	✓	
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				10.1	mg/kg	2.456	19.562	mg/kg	0.00196 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				641	mg/kg	2.749	1389.455	mg/kg	0.139 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1.5	mg/kg	1.5	1.775	mg/kg	0.000177 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.247 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.011%)

Classification of sample: BH01[1]

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

Sample details

Sample Name:
BH01[1]
Sample Depth:
2 m
Moisture content:
19%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 19% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		8.3 pH		8.3 pH	8.3 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		0.57 mg/kg		0.479 mg/kg	0.0000479 %	✓	
9		anthracene 204-371-1 / 120-12-7		0.21 mg/kg		0.176 mg/kg	0.0000176 %	✓	
10		fluoranthene 205-912-4 / 206-44-0		1.35 mg/kg		1.134 mg/kg	0.000113 %	✓	
11		pyrene 204-927-3 / 129-00-0		1.2 mg/kg		1.008 mg/kg	0.000101 %	✓	
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		0.72 mg/kg		0.605 mg/kg	0.0000605 %	✓	
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		0.84 mg/kg		0.706 mg/kg	0.0000706 %	✓	
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		1.05 mg/kg		0.882 mg/kg	0.0000882 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				0.47	mg/kg		0.395	mg/kg	0.0000395 %	✓	
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				0.86	mg/kg		0.723	mg/kg	0.0000723 %	✓	
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				0.57	mg/kg		0.479	mg/kg	0.0000479 %	✓	
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				0.12	mg/kg		0.101	mg/kg	0.0000101 %	✓	
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				0.56	mg/kg		0.471	mg/kg	0.0000471 %	✓	
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				8.4	mg/kg	1.32	9.32	mg/kg	0.000932 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				57.7	mg/kg	1.437	69.675	mg/kg	0.00697 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.68	mg/kg	8.868	5.067	mg/kg	0.000507 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1.4	mg/kg	23.173	27.262	mg/kg	0.00273 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<25.8	mg/kg	1.462	<37.708	mg/kg	<0.00377 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				12.8	mg/kg	3.929	42.262	mg/kg	0.00423 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	22.7	mg/kg		19.076	mg/kg	0.00191 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				22.9	mg/kg	1.579	30.395	mg/kg	0.00304 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				30.4	mg/kg	1.785	45.605	mg/kg	0.00456 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				75	mg/kg	2.469	155.628	mg/kg	0.0156 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025	mg/kg		<0.025	mg/kg	<0.0000025 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		76.3	mg/kg		64.118	mg/kg	0.00641 %	✓	
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.445	mg/kg	0.000144 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				301.2	mg/kg	2.749	695.687	mg/kg	0.0696 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.8	mg/kg	1.5	1.009	mg/kg	0.000101 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.122 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00641%)

Classification of sample: BH01A

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

Sample details

Sample Name:
BH01A
Sample Depth:
0.5 m
Moisture content:
14%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.6	pH		6.6	pH	6.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		0.26	mg/kg		0.228	mg/kg	0.0000228 %	✓	
5		acenaphthylene		205-917-1	208-96-8		0.16	mg/kg		0.14	mg/kg	0.000014 %	✓	
6		acenaphthene		201-469-6	83-32-9		0.5	mg/kg		0.439	mg/kg	0.0000439 %	✓	
7		fluorene		201-695-5	86-73-7		0.53	mg/kg		0.465	mg/kg	0.0000465 %	✓	
8		phenanthrene		201-581-5	85-01-8		5.41	mg/kg		4.746	mg/kg	0.000475 %	✓	
9		anthracene		204-371-1	120-12-7		1.98	mg/kg		1.737	mg/kg	0.000174 %	✓	
10		fluoranthene		205-912-4	206-44-0		13.8	mg/kg		12.105	mg/kg	0.00121 %	✓	
11		pyrene		204-927-3	129-00-0		10.88	mg/kg		9.544	mg/kg	0.000954 %	✓	
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		6.33	mg/kg		5.553	mg/kg	0.000555 %	✓	
13		chrysene	601-048-00-0	205-923-4	218-01-9		4.98	mg/kg		4.368	mg/kg	0.000437 %	✓	
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		5.67	mg/kg		4.974	mg/kg	0.000497 %	✓	

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2	mg/kg		1.754	mg/kg	0.000175 %	✓	
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.91	mg/kg		4.307	mg/kg	0.000431 %	✓	
17		indeno[123-cd]pyrene		205-893-2	193-39-5		2.51	mg/kg		2.202	mg/kg	0.00022 %	✓	
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.5	mg/kg		0.439	mg/kg	0.0000439 %	✓	
19		benzo[ghi]perylene		205-883-8	191-24-2		1.85	mg/kg		1.623	mg/kg	0.000162 %	✓	
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.4	mg/kg	1.32	7.412	mg/kg	0.000741 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		131	mg/kg	1.437	165.126	mg/kg	0.0165 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.42	mg/kg	8.868	3.267	mg/kg	0.000327 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.2	mg/kg	23.173	24.393	mg/kg	0.00244 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.21	mg/kg	1.285	0.237	mg/kg	0.0000184 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<16.2	mg/kg	1.462	<23.677	mg/kg	<0.00237 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		18.8	mg/kg	3.929	64.795	mg/kg	0.00648 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	62	mg/kg		54.386	mg/kg	0.00544 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.6	mg/kg	1.353	1.9	mg/kg	0.00019 %	✓	
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15	mg/kg	1.579	20.783	mg/kg	0.00208 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		20.7	mg/kg	1.785	32.415	mg/kg	0.00324 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		83.7	mg/kg	2.469	181.298	mg/kg	0.0181 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		398	mg/kg		349.123	mg/kg	0.0349 %	✓	
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		**<LOD**
41		antimony { antimony pentachloride }				2.9	mg/kg	2.456	6.247	mg/kg	0.000625 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				318.9	mg/kg	2.749	768.875	mg/kg	0.0769 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.9	mg/kg	1.5	1.184	mg/kg	0.000118 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.176 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0349%)

Classification of sample: BH04

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

Sample details

Sample Name:
BH04
Sample Depth:
0.5 m
Moisture content:
13.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2 pH		7.2 pH	7.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				7	mg/kg	1.32	8.122	mg/kg	0.000812 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				44.8	mg/kg	1.437	56.57	mg/kg	0.00566 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.49	mg/kg	8.868	3.818	mg/kg	0.000382 %	✓	
				7787-47-5									
23		boron { boron tribromide }				0.5	mg/kg	23.173	10.181	mg/kg	0.00102 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<16.6	mg/kg	1.462	<24.262	mg/kg	<0.00243 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				12	mg/kg	3.929	41.431	mg/kg	0.00414 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	19.6	mg/kg		17.223	mg/kg	0.00172 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				16.4	mg/kg	1.579	22.763	mg/kg	0.00228 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				21.7	mg/kg	1.785	34.041	mg/kg	0.0034 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				41.2	mg/kg	2.469	89.398	mg/kg	0.00894 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23.7	mg/kg		<23.7	mg/kg	<0.00237 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.295	mg/kg	0.000129 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				158.4	mg/kg	2.749	382.577	mg/kg	0.0383 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.791	mg/kg	0.0000791 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.0722 %		

Key

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

Classification of sample: BH05

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

Sample details

Sample Name:
BH05
Sample Depth:
1 m
Moisture content:
22%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 22% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		10.2 pH		10.2 pH	10.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	4.329	mg/kg	0.000433 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		420	mg/kg	1.437	494.697	mg/kg	0.0495 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.56	mg/kg	8.868	4.071	mg/kg	0.000407 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.5	mg/kg	23.173	9.497	mg/kg	0.00095 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<25.1	mg/kg	1.462	<36.685	mg/kg	<0.00367 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		8.2	mg/kg	3.929	26.408	mg/kg	0.00264 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.7	mg/kg		7.951	mg/kg	0.000795 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		18.8	mg/kg	1.579	24.34	mg/kg	0.00243 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26.2	mg/kg	1.785	38.338	mg/kg	0.00383 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		45.3	mg/kg	2.469	91.688	mg/kg	0.00917 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.026	mg/kg		<0.026	mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.4	mg/kg	2.456	0.805	mg/kg	0.0000805 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				316	mg/kg	2.749	711.923	mg/kg	0.0712 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.861	mg/kg	0.0000861 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.148 %		

Key

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

Classification of sample: BH06

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

Sample details

Sample Name:
BH06
Sample Depth:
0.5 m
Moisture content:
26.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 26.4% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		10.3 pH		10.3 pH	10.3 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				8.3	mg/kg	1.32	8.67	mg/kg	0.000867 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				77.9	mg/kg	1.437	88.561	mg/kg	0.00886 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.93	mg/kg	8.868	6.525	mg/kg	0.000652 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1.5	mg/kg	23.173	27.5	mg/kg	0.00275 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<34.4	mg/kg	1.462	<50.278	mg/kg	<0.00503 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				15.6	mg/kg	3.929	48.491	mg/kg	0.00485 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	21	mg/kg		16.614	mg/kg	0.00166 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				21.2	mg/kg	1.579	26.492	mg/kg	0.00265 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				34.8	mg/kg	1.785	49.149	mg/kg	0.00491 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				50	mg/kg	2.469	97.678	mg/kg	0.00977 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.027	mg/kg		<0.027	mg/kg	<0.0000027 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				34.4	mg/kg		27.215	mg/kg	0.00272 %	✓	
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.5	mg/kg	2.456	0.971	mg/kg	0.0000971 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				170	mg/kg	2.749	369.664	mg/kg	0.037 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1.6	mg/kg	1.5	1.899	mg/kg	0.00019 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.0826 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00272%)

Classification of sample: BH07

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

Sample details

Sample Name:
BH07
Sample Depth:
0.5 m
Moisture content:
24.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 24.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.5 pH		6.5 pH	6.5 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.9	mg/kg	1.32	13.648	mg/kg	0.00136 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		150	mg/kg	1.437	172.714	mg/kg	0.0173 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.39	mg/kg	8.868	9.877	mg/kg	0.000988 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		2.5	mg/kg	23.173	46.42	mg/kg	0.00464 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.22	mg/kg	1.285	<0.283	mg/kg	<0.000022 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		115	mg/kg	1.462	134.679	mg/kg	0.0135 %	✓	
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		25.8	mg/kg	3.929	81.226	mg/kg	0.00812 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	30.6	mg/kg		24.519	mg/kg	0.00245 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.6	mg/kg	1.353	<0.812	mg/kg	<0.0000812 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		33	mg/kg	1.579	41.766	mg/kg	0.00418 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7	mg/kg	2.554	1.432	mg/kg	0.000143 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		66	mg/kg	1.785	94.409	mg/kg	0.00944 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		75.1	mg/kg	2.469	148.593	mg/kg	0.0149 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.027	mg/kg		<0.027	mg/kg	<0.0000027 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<27	mg/kg		<27	mg/kg	<0.0027 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.9	mg/kg	2.456	1.771	mg/kg	0.000177 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				1025.5	mg/kg	2.749	2258.535	mg/kg	0.226 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				2	mg/kg	1.5	2.404	mg/kg	0.00024 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.306 %		

Key

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

Classification of sample: BH08

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

Sample details

Sample Name:
BH08
Sample Depth:
0.5 m
Moisture content:
23.3%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 23.3% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.1	pH		7.1	pH	7.1 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		3.7 mg/kg	1.32	3.962 mg/kg	0.000396 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		116 mg/kg	1.437	135.19 mg/kg	0.0135 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		1.16 mg/kg	8.868	8.343 mg/kg	0.000834 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		<0.5 mg/kg	23.173	<11.586 mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<42.1 mg/kg	1.462	<61.531 mg/kg	<0.00615 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		13.3 mg/kg	3.929	42.382 mg/kg	0.00424 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	17.1 mg/kg		13.869 mg/kg	0.00139 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1] 234-348-1 [2] / 12054-48-7 [1] 11113-74-9 [2]		36 mg/kg	1.579	46.117 mg/kg	0.00461 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		46.8 mg/kg	1.785	67.759 mg/kg	0.00678 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		100.3 mg/kg	2.469	200.868 mg/kg	0.0201 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				313.5	mg/kg	2.749	698.844	mg/kg	0.0699 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.132 %		

Key

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

Classification of sample: BH10

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

Sample details

Sample Name:
BH10
Sample Depth:
0.5 m
Moisture content:
15.2%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 15.2% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		8.5 pH		8.5 pH	8.5 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		0.11 mg/kg		0.0955 mg/kg	0.00000955 %	✓	
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		0.09 mg/kg		0.0781 mg/kg	0.00000781 %	✓	
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		0.13 mg/kg		0.113 mg/kg	0.0000113 %	✓	
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		0.13 mg/kg		0.113 mg/kg	0.0000113 %	✓	

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.5	mg/kg	1.32	8.596	mg/kg	0.00086 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		55.7	mg/kg	1.437	69.479	mg/kg	0.00695 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.46	mg/kg	8.868	3.541	mg/kg	0.000354 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.8	mg/kg	23.173	16.092	mg/kg	0.00161 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				0.1	mg/kg		0.0868	mg/kg	0.00000868 %	✓	
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22.2	mg/kg	1.462	28.165	mg/kg	0.00282 %	✓	
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		13	mg/kg	3.929	44.338	mg/kg	0.00443 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	17.6	mg/kg		15.278	mg/kg	0.00153 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		16	mg/kg	1.579	21.937	mg/kg	0.00219 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	35.642	mg/kg	0.00356 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		51.8	mg/kg	2.469	111.033	mg/kg	0.0111 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		43.8	mg/kg		38.021	mg/kg	0.0038 %	✓	
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.492	mg/kg	0.000149 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				331.9	mg/kg	2.749	791.882	mg/kg	0.0792 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.651	mg/kg	0.0000651 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.119 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0038%)

Classification of sample: BH101

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

Sample details

Sample Name:
BH101
Sample Depth:
1 m
Moisture content:
16.2%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.2% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7 pH		7 pH	7pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		5.9 mg/kg	1.32	6.704 mg/kg	0.00067 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		29 mg/kg	1.437	35.863 mg/kg	0.00359 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.29 mg/kg	8.868	2.213 mg/kg	0.000221 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		<0.5 mg/kg	23.173	<11.586 mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<16.2 mg/kg	1.462	<23.677 mg/kg	<0.00237 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		13.4 mg/kg	3.929	45.309 mg/kg	0.00453 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	8.7 mg/kg		7.487 mg/kg	0.000749 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1], 234-348-1 [2] / 12054-48-7 [1], 11113-74-9 [2]		12.2 mg/kg	1.579	16.583 mg/kg	0.00166 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		17 mg/kg	1.785	26.117 mg/kg	0.00261 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1], 231-793-3 [2] / 7446-19-7 [1], 7733-02-0 [2]		31.5 mg/kg	2.469	66.939 mg/kg	0.00669 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1], 203-396-5 [2], 203-576-3 [3], 215-535-7 [4] / 95-47-6 [1], 106-42-3 [2], 108-38-3 [3], 1330-20-7 [4]		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.2	mg/kg	2.456	0.423	mg/kg	0.0000423 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				346	mg/kg	2.749	818.419	mg/kg	0.0818 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.109 %		

Key

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

Classification of sample: BH103

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

Sample details

Sample Name:
BH103
Sample Depth:
0.8 m
Moisture content:
16.3%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.3% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2 pH		8.2 pH	8.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.7	mg/kg	1.32	11.012	mg/kg	0.0011 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		93.9	mg/kg	1.437	116.021	mg/kg	0.0116 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.06	mg/kg	8.868	8.083	mg/kg	0.000808 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.9	mg/kg	23.173	17.933	mg/kg	0.00179 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<28.8	mg/kg	1.462	<42.093	mg/kg	<0.00421 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		17.7	mg/kg	3.929	59.797	mg/kg	0.00598 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12.9	mg/kg		11.092	mg/kg	0.00111 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		29.1	mg/kg	1.579	39.521	mg/kg	0.00395 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	44.515	mg/kg	0.00445 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		42.5	mg/kg	2.469	90.237	mg/kg	0.00902 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		TPH (C6 to C40) petroleum group			TPH		<24.6	mg/kg		<24.6	mg/kg	<0.00246 %		<LOD
39		petrol (gasoline) petroleum group					<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.478	mg/kg	0.000148 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
41		manganese { manganese sulphate }				475.2	mg/kg	2.749	1123.059	mg/kg	0.112 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.774	mg/kg	0.0000774 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.16 %		

Key

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

Classification of sample: BH104

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

Sample details

Sample Name:
BH104
Sample Depth:
1 m
Moisture content:
11%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.8 pH		8.8 pH	8.8 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		0.48 mg/kg		0.432 mg/kg	0.0000432 %	✓	
9	anthracene		204-371-1	120-12-7		0.15 mg/kg		0.135 mg/kg	0.0000135 %	✓	
10	fluoranthene		205-912-4	206-44-0		0.63 mg/kg		0.568 mg/kg	0.0000568 %	✓	
11	pyrene		204-927-3	129-00-0		0.49 mg/kg		0.441 mg/kg	0.0000441 %	✓	
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.24 mg/kg		0.216 mg/kg	0.0000216 %	✓	
13	chrysene	601-048-00-0	205-923-4	218-01-9		0.3 mg/kg		0.27 mg/kg	0.000027 %	✓	
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.26 mg/kg		0.234 mg/kg	0.0000234 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				0.12	mg/kg		0.108	mg/kg	0.0000108 %	✓	
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.18	mg/kg	0.000018 %	✓	
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				0.1	mg/kg		0.0901	mg/kg	0.00000901 %	✓	
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				0.12	mg/kg		0.108	mg/kg	0.0000108 %	✓	
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				6.5	mg/kg	1.32	7.732	mg/kg	0.000773 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				121	mg/kg	1.437	156.644	mg/kg	0.0157 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.66	mg/kg	8.868	5.273	mg/kg	0.000527 %	✓	
				7787-47-5									
23		boron { boron tribromide }				0.5	mg/kg	23.173	10.438	mg/kg	0.00104 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<28.6	mg/kg	1.462	<41.8	mg/kg	<0.00418 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				18.8	mg/kg	3.929	66.546	mg/kg	0.00665 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	10	mg/kg		9.009	mg/kg	0.000901 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				27.1	mg/kg	1.579	38.563	mg/kg	0.00386 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				27.6	mg/kg	1.785	44.388	mg/kg	0.00444 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				46	mg/kg	2.469	102.331	mg/kg	0.0102 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.022	mg/kg		<0.022	mg/kg	<0.0000022 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<22	mg/kg		<22	mg/kg	<0.0022 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		manganese { manganese sulphate }				518.1	mg/kg	2.749	1282.911	mg/kg	0.128 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.946	mg/kg	0.0000946 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.18 %		

Key

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

Classification of sample: BH105

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

Sample details

Sample Name:
BH105
Sample Depth:
0.8 m
Moisture content:
14.6%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14.6% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.6 pH		7.6 pH	7.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8	mg/kg	1.32	7.834	mg/kg	0.000783 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		4370	mg/kg	1.437	5479.576	mg/kg	0.548 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.59	mg/kg	8.868	4.566	mg/kg	0.000457 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.7	mg/kg	23.173	14.155	mg/kg	0.00142 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<26.7	mg/kg	1.462	<39.024	mg/kg	<0.0039 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		12.7	mg/kg	3.929	43.542	mg/kg	0.00435 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10.9	mg/kg		9.511	mg/kg	0.000951 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17.3	mg/kg	1.579	23.844	mg/kg	0.00238 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22.9	mg/kg	1.785	35.673	mg/kg	0.00357 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		30.2	mg/kg	2.469	65.072	mg/kg	0.00651 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23.7	mg/kg		<23.7	mg/kg	<0.00237 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.5	mg/kg	0.00015 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				255.8	mg/kg	2.749	613.51	mg/kg	0.0614 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.916	mg/kg	0.0000916 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.637 %		

Key

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

Classification of sample: BH106

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

Sample details

Sample Name:
BH106
Sample Depth:
0.3 m
Moisture content:
22.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 22.4% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.4 pH		7.4 pH	7.4 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8 mg/kg	1.32	7.335 mg/kg	0.000734 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		512 mg/kg	1.437	601.089 mg/kg	0.0601 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.54 mg/kg	8.868	3.912 mg/kg	0.000391 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.9 mg/kg	23.173	17.039 mg/kg	0.0017 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.23 mg/kg	1.285	0.242 mg/kg	0.0000188 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<23.4 mg/kg	1.462	<34.2 mg/kg	<0.00342 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		18.3 mg/kg	3.929	58.743 mg/kg	0.00587 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	34.1 mg/kg		27.859 mg/kg	0.00279 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.54 mg/kg	1.353	<0.731 mg/kg	<0.0000731 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		14.7 mg/kg	1.579	18.969 mg/kg	0.0019 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24.3 mg/kg	1.785	35.441 mg/kg	0.00354 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		43.4 mg/kg	2.469	87.555 mg/kg	0.00876 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26.5	mg/kg		<26.5	mg/kg	<0.00265 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				1.2	mg/kg	2.456	2.408	mg/kg	0.000241 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				303.2	mg/kg	2.749	680.853	mg/kg	0.0681 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.226	mg/kg	0.000123 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.161 %		

Key

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

Classification of sample: BH107

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

Sample details

Sample Name:
BH107
Sample Depth:
1 m
Moisture content:
16.3%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.3% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7 pH		7.7 pH	7.7 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.8	mg/kg	1.32	8.855	mg/kg	0.000886 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		77	mg/kg	1.437	95.14	mg/kg	0.00951 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.88	mg/kg	8.868	6.71	mg/kg	0.000671 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<24.5	mg/kg	1.462	<35.808	mg/kg	<0.00358 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		18	mg/kg	3.929	60.811	mg/kg	0.00608 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12.8	mg/kg		11.006	mg/kg	0.0011 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		28.9	mg/kg	1.579	39.25	mg/kg	0.00392 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24.1	mg/kg	1.785	36.993	mg/kg	0.0037 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		43.6	mg/kg	2.469	92.572	mg/kg	0.00926 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24.1	mg/kg		<24.1	mg/kg	<0.00241 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.478	mg/kg	0.000148 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				532	mg/kg	2.749	1257.297	mg/kg	0.126 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.774	mg/kg	0.0000774 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.169 %		

Key

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

Classification of sample: BH11A

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

Sample details

Sample Name:
BH11A
Sample Depth:
1 m
Moisture content:
78.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 78.1% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.8 pH		7.8 pH	7.8 pH		
2		cyanides { 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		<2.3 mg/kg	1.884	<4.333 mg/kg	<0.000433 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<2.3 mg/kg		<2.3 mg/kg	<0.00023 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.37 mg/kg		<0.37 mg/kg	<0.000037 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.37	mg/kg		<0.37	mg/kg	<0.000037 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.37	mg/kg		<0.37	mg/kg	<0.000037 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.37	mg/kg		<0.37	mg/kg	<0.000037 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.37	mg/kg		<0.37	mg/kg	<0.000037 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.37	mg/kg		<0.37	mg/kg	<0.000037 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				14.3	mg/kg	1.32	10.601	mg/kg	0.00106 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				149	mg/kg	1.437	120.219	mg/kg	0.012 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				1.76	mg/kg	8.868	8.763	mg/kg	0.000876 %	✓	
				7787-47-5									
23		boron { boron tribromide }				5.7	mg/kg	23.173	74.164	mg/kg	0.00742 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	0.4	mg/kg	1.285	0.289	mg/kg	0.0000225 %	✓	
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<65.8	mg/kg	1.462	<96.17	mg/kg	<0.00962 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				45.2	mg/kg	3.929	99.715	mg/kg	0.00997 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	25.8	mg/kg		14.486	mg/kg	0.00145 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<1.1	mg/kg	1.353	<1.489	mg/kg	<0.000149 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				43.5	mg/kg	1.579	38.578	mg/kg	0.00386 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.5	mg/kg	2.554	2.151	mg/kg	0.000215 %	✓	
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				61.1	mg/kg	1.785	61.244	mg/kg	0.00612 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				87.8	mg/kg	2.469	121.732	mg/kg	0.0122 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.091	mg/kg		<0.091	mg/kg	<0.0000091 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				168.5	mg/kg		94.61	mg/kg	0.00946 %	✓	
				TPH									
40		petrol (gasoline) petroleum group				<0.9	mg/kg		<0.9	mg/kg	<0.00009 %		<**LOD**
41		antimony { antimony pentachloride }				1.1	mg/kg	2.456	1.517	mg/kg	0.000152 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				599	mg/kg	2.749	924.419	mg/kg	0.0924 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				3.4	mg/kg	1.5	2.864	mg/kg	0.000286 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00946%)

Classification of sample: BH13

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

Sample details

Sample Name:
BH13
Sample Depth:
0.8 m
Moisture content:
14.3%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14.3% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.6	pH		7.6	pH	7.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9	mg/kg	1.32	11.436	mg/kg	0.00114 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		138	mg/kg	1.437	173.493	mg/kg	0.0173 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.16	mg/kg	8.868	9	mg/kg	0.0009 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.9	mg/kg	23.173	18.246	mg/kg	0.00182 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<37.9	mg/kg	1.462	<55.393	mg/kg	<0.00554 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		18.9	mg/kg	3.929	64.969	mg/kg	0.0065 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	13.2	mg/kg		11.549	mg/kg	0.00115 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		40.5	mg/kg	1.579	55.967	mg/kg	0.0056 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35.2	mg/kg	1.785	54.977	mg/kg	0.0055 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		54	mg/kg	2.469	116.66	mg/kg	0.0117 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.8	mg/kg	2.456	1.719	mg/kg	0.000172 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				666	mg/kg	2.749	1601.525	mg/kg	0.16 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.656	mg/kg	0.0000656 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.22 %		

Key

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

Classification of sample: BH14

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

Sample details

Sample Name:
BH14
Sample Depth:
0.2 m
Moisture content:
20.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 20.4% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		6.8 pH		6.8 pH	6.8 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		8.6 mg/kg	1.32	9.431 mg/kg	0.000943 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		54.6 mg/kg	1.437	65.165 mg/kg	0.00652 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.5 mg/kg	8.868	3.683 mg/kg	0.000368 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		0.6 mg/kg	23.173	11.548 mg/kg	0.00115 %	✓	
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.21 mg/kg	1.285	<0.27 mg/kg	<0.000021 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<22.5 mg/kg	1.462	<32.885 mg/kg	<0.00329 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		17.2 mg/kg	3.929	56.129 mg/kg	0.00561 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	30 mg/kg		24.917 mg/kg	0.00249 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1] 234-348-1 [2] / 12054-48-7 [1] 11113-74-9 [2]		13.9 mg/kg	1.579	18.235 mg/kg	0.00182 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		29.5 mg/kg	1.785	43.74 mg/kg	0.00437 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		48.6 mg/kg	2.469	99.674 mg/kg	0.00997 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				464	mg/kg	2.749	1059.247	mg/kg	0.106 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.246	mg/kg	0.000125 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.146 %		

Key

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

Classification of sample: BH15

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

Sample details

Sample Name:
BH15
Sample Depth:
0.2 m
Moisture content:
21.7%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 21.7% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.3	pH		6.3	pH	6.3 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.5	mg/kg	1.32	7.052	mg/kg	0.000705 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		61.3	mg/kg	1.437	72.38	mg/kg	0.00724 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.48	mg/kg	8.868	3.498	mg/kg	0.00035 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<23.8	mg/kg	1.462	<34.785	mg/kg	<0.00348 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		15.1	mg/kg	3.929	48.75	mg/kg	0.00487 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	28.5	mg/kg		23.418	mg/kg	0.00234 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		14.2	mg/kg	1.579	18.43	mg/kg	0.00184 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29.7	mg/kg	1.785	43.566	mg/kg	0.00436 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		60.2	mg/kg	2.469	122.146	mg/kg	0.0122 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.026	mg/kg		<0.026	mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				361.9	mg/kg	2.749	817.342	mg/kg	0.0817 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.863	mg/kg	0.0000863 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.124 %		

Key

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

Classification of sample: BH17

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

Sample details

Sample Name:
BH17
Sample Depth:
1 m
Moisture content:
15%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 15% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		8.6 pH		8.6 pH	8.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		8.5 mg/kg	1.32	9.759 mg/kg	0.000976 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		58.7 mg/kg	1.437	73.348 mg/kg	0.00733 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.69 mg/kg	8.868	5.321 mg/kg	0.000532 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		0.7 mg/kg	23.173	14.105 mg/kg	0.00141 %	✓	
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<28.1 mg/kg	1.462	<41.07 mg/kg	<0.00411 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		13.5 mg/kg	3.929	46.124 mg/kg	0.00461 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	9.1 mg/kg		7.913 mg/kg	0.000791 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1], 234-348-1 [2] / 12054-48-7 [1], 11113-74-9 [2]		21 mg/kg	1.579	28.843 mg/kg	0.00288 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		27.2 mg/kg	1.785	42.224 mg/kg	0.00422 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1], 231-793-3 [2] / 7446-19-7 [1], 7733-02-0 [2]		39.5 mg/kg	2.469	84.815 mg/kg	0.00848 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1], 203-396-5 [2], 203-576-3 [3], 215-535-7 [4] / 95-47-6 [1], 106-42-3 [2], 108-38-3 [3], 1330-20-7 [4]		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.495	mg/kg	0.000149 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				478.3	mg/kg	2.749	1143.164	mg/kg	0.114 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.652	mg/kg	0.0000652 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.153 %		

Key

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

Classification of sample: BH19

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

Sample details

Sample Name:
BH19
Sample Depth:
0.8 m
Moisture content:
16.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.1% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.6 pH		7.6 pH	7.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.1	mg/kg	1.32	8.074	mg/kg	0.000807 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		181	mg/kg	1.437	224.025	mg/kg	0.0224 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.87	mg/kg	8.868	6.645	mg/kg	0.000665 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.26	mg/kg	1.285	0.288	mg/kg	0.0000224 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<30.4	mg/kg	1.462	<44.431	mg/kg	<0.00444 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		15.8	mg/kg	3.929	53.47	mg/kg	0.00535 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10	mg/kg		8.613	mg/kg	0.000861 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		28	mg/kg	1.579	38.093	mg/kg	0.00381 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24.3	mg/kg	1.785	37.364	mg/kg	0.00374 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		38.6	mg/kg	2.469	82.097	mg/kg	0.00821 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24.3	mg/kg		<24.3	mg/kg	<0.00243 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.9	mg/kg	2.456	1.904	mg/kg	0.00019 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				548	mg/kg	2.749	1297.341	mg/kg	0.13 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.775	mg/kg	0.0000775 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.184 %		

Key

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

Classification of sample: TP01

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

Sample details

Sample Name:
TP01
Sample Depth:
0.2 m
Moisture content:
18.7%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 18.7% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.4 pH		6.4 pH	6.4 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		10.2 mg/kg	1.32	11.346 mg/kg	0.00113 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		45.2 mg/kg	1.437	54.719 mg/kg	0.00547 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.48 mg/kg	8.868	3.586 mg/kg	0.000359 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		1 mg/kg	23.173	19.522 mg/kg	0.00195 %	✓	
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.21 mg/kg	1.285	<0.27 mg/kg	<0.000021 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<21.3 mg/kg	1.462	<31.131 mg/kg	<0.00311 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		16 mg/kg	3.929	52.961 mg/kg	0.0053 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	29.3 mg/kg		24.684 mg/kg	0.00247 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1] 234-348-1 [2] / 12054-48-7 [1] 11113-74-9 [2]		14.8 mg/kg	1.579	19.694 mg/kg	0.00197 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		0.6 mg/kg	2.554	1.291 mg/kg	0.000129 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		25.4 mg/kg	1.785	38.2 mg/kg	0.00382 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		48.2 mg/kg	2.469	100.27 mg/kg	0.01 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.8	mg/kg	2.456	1.655	mg/kg	0.000166 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				513.4	mg/kg	2.749	1188.806	mg/kg	0.119 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.9	mg/kg	1.5	1.137	mg/kg	0.000114 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.158 %		

Key

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

Classification of sample: TP02

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

Sample details

Sample Name:
TP02
Sample Depth:
1 m
Moisture content:
12.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 12.4% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.5	pH		7.5	pH	7.5 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.9	mg/kg	1.32	10.455	mg/kg	0.00105 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		78.8	mg/kg	1.437	100.742	mg/kg	0.0101 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.85	mg/kg	8.868	6.706	mg/kg	0.000671 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.8	mg/kg	23.173	16.493	mg/kg	0.00165 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<27.4	mg/kg	1.462	<40.047	mg/kg	<0.004 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		18.5	mg/kg	3.929	64.669	mg/kg	0.00647 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10	mg/kg		8.897	mg/kg	0.00089 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		29.7	mg/kg	1.579	41.736	mg/kg	0.00417 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		27.8	mg/kg	1.785	44.153	mg/kg	0.00442 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		40.2	mg/kg	2.469	88.315	mg/kg	0.00883 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.311	mg/kg	0.000131 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				1390	mg/kg	2.749	3399.025	mg/kg	0.34 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.667	mg/kg	0.0000667 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.385 %		

Key

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

Classification of sample: TP03

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

Sample details

Sample Name:
TP03
Sample Depth:
0.3 m
Moisture content:
22.9%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 22.9% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.8 pH		6.8 pH	6.8 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		0.13 mg/kg		0.106 mg/kg	0.0000106 %	✓	
11	pyrene		204-927-3	129-00-0		0.12 mg/kg		0.0976 mg/kg	0.00000976 %	✓	
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		0.12 mg/kg		0.0976 mg/kg	0.00000976 %	✓	
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		9.7 mg/kg	1.32	10.421 mg/kg	0.00104 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		128 mg/kg	1.437	149.661 mg/kg	0.015 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.77 mg/kg	8.868	5.556 mg/kg	0.000556 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		1.6 mg/kg	23.173	30.168 mg/kg	0.00302 %	✓	
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	<0.21 mg/kg	1.285	<0.27 mg/kg	<0.000021 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<59.7 mg/kg	1.462	<87.255 mg/kg	<0.00873 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		22.8 mg/kg	3.929	72.89 mg/kg	0.00729 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	32.6 mg/kg		26.526 mg/kg	0.00265 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1] 234-348-1 [2] / 12054-48-7 [1] 11113-74-9 [2]		17 mg/kg	1.579	21.848 mg/kg	0.00218 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		0.8 mg/kg	2.554	1.662 mg/kg	0.000166 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		36.6 mg/kg	1.785	53.163 mg/kg	0.00532 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		62.5 mg/kg	2.469	125.574 mg/kg	0.0126 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				1	mg/kg	2.456	1.998	mg/kg	0.0002 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				626.6	mg/kg	2.749	1401.343	mg/kg	0.14 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.221	mg/kg	0.000122 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.202 %		

Key

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

Classification of sample: TP03[1]

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

Sample details

Sample Name:
TP03[1]
Sample Depth:
1 m
Moisture content:
14.9%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14.9% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.8 pH		7.8 pH	7.8 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	10.342	mg/kg	0.00103 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		101.6	mg/kg	1.437	127.064	mg/kg	0.0127 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.88	mg/kg	8.868	6.792	mg/kg	0.000679 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1	mg/kg	23.173	20.168	mg/kg	0.00202 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<30.6	mg/kg	1.462	<44.724	mg/kg	<0.00447 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		19.3	mg/kg	3.929	65.997	mg/kg	0.0066 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11.4	mg/kg		9.922	mg/kg	0.000992 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		24.9	mg/kg	1.579	34.229	mg/kg	0.00342 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29.7	mg/kg	1.785	46.144	mg/kg	0.00461 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		36.8	mg/kg	2.469	79.086	mg/kg	0.00791 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.496	mg/kg	0.00015 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				618.4	mg/kg	2.749	1479.297	mg/kg	0.148 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.653	mg/kg	0.0000653 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.196 %		

Key

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

Classification of sample: TP10

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

Sample details

Sample Name:
TP10
Sample Depth:
0.3 m
Moisture content:
20%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 20% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.4 pH		6.4 pH	6.4 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				8.7	mg/kg	1.32	9.572	mg/kg	0.000957 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				52.7	mg/kg	1.437	63.107	mg/kg	0.00631 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.53	mg/kg	8.868	3.917	mg/kg	0.000392 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1	mg/kg	23.173	19.311	mg/kg	0.00193 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<27.5	mg/kg	1.462	<40.193	mg/kg	<0.00402 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				17.7	mg/kg	3.929	57.954	mg/kg	0.0058 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	23.2	mg/kg		19.333	mg/kg	0.00193 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				18.4	mg/kg	1.579	24.219	mg/kg	0.00242 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				32	mg/kg	1.785	47.605	mg/kg	0.00476 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				44.1	mg/kg	2.469	90.747	mg/kg	0.00907 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025	mg/kg		<0.025	mg/kg	<0.0000025 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.228	mg/kg	0.000123 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				419.5	mg/kg	2.749	960.852	mg/kg	0.0961 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.8	mg/kg	1.5	1	mg/kg	0.0001 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.137 %		

Key

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

Classification of sample: TP104

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

Sample details

Sample Name:
TP104
Sample Depth:
0.3 m
Moisture content:
29.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 29.1% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.1	pH		6.1	pH	6.1 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		0.18	mg/kg		0.139	mg/kg	0.0000139 %	✓	
11		pyrene		204-927-3	129-00-0		0.16	mg/kg		0.124	mg/kg	0.0000124 %	✓	
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		0.16	mg/kg		0.124	mg/kg	0.0000124 %	✓	
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.16	mg/kg		0.124	mg/kg	0.0000124 %	✓	

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.11	mg/kg		0.0852	mg/kg	0.00000852 %	✓	
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	9.204	mg/kg	0.00092 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		105.1	mg/kg	1.437	116.984	mg/kg	0.0117 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.6	mg/kg	8.868	4.121	mg/kg	0.000412 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.8	mg/kg	23.173	32.309	mg/kg	0.00323 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.22	mg/kg	1.285	<0.283	mg/kg	<0.000022 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<73.6	mg/kg	1.462	<107.571	mg/kg	<0.0108 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		25.4	mg/kg	3.929	77.303	mg/kg	0.00773 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	34.9	mg/kg		27.033	mg/kg	0.0027 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.6	mg/kg	1.353	<0.812	mg/kg	<0.0000812 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17.9	mg/kg	1.579	21.9	mg/kg	0.00219 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.6	mg/kg	2.554	<1.532	mg/kg	<0.000153 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		36	mg/kg	1.785	49.781	mg/kg	0.00498 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		62.3	mg/kg	2.469	119.161	mg/kg	0.0119 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.028	mg/kg		<0.028	mg/kg	<0.0000028 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		31.6	mg/kg		24.477	mg/kg	0.00245 %	✓	
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		**<LOD**
41		antimony { antimony pentachloride }				1	mg/kg	2.456	1.902	mg/kg	0.00019 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				811.1	mg/kg	2.749	1726.848	mg/kg	0.173 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.162	mg/kg	0.000116 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.233 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00245%)

Classification of sample: TP105

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

Sample details

Sample Name:
TP105
Sample Depth:
1 m
Moisture content:
13.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2 pH		7.2 pH	7.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				6.8	mg/kg	1.32	7.917	mg/kg	0.000792 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				57	mg/kg	1.437	72.229	mg/kg	0.00722 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.68	mg/kg	8.868	5.318	mg/kg	0.000532 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1	mg/kg	23.173	20.435	mg/kg	0.00204 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<23.9	mg/kg	1.462	<34.931	mg/kg	<0.00349 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				15.9	mg/kg	3.929	55.09	mg/kg	0.00551 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	9	mg/kg		7.937	mg/kg	0.000794 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				18.9	mg/kg	1.579	26.325	mg/kg	0.00263 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				22.7	mg/kg	1.785	35.735	mg/kg	0.00357 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				31.6	mg/kg	2.469	68.809	mg/kg	0.00688 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.299	mg/kg	0.00013 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				382	mg/kg	2.749	925.883	mg/kg	0.0926 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.794	mg/kg	0.0000794 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.129 %		

Key

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

Classification of sample: TP106

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

Sample details

Sample Name:
TP106
Sample Depth:
0.3 m
Moisture content:
21.7%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 21.7% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.9	pH		6.9	pH	6.9 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.8	mg/kg	1.32	9.547	mg/kg	0.000955 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		71.9	mg/kg	1.437	84.896	mg/kg	0.00849 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.55	mg/kg	8.868	4.008	mg/kg	0.000401 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.5	mg/kg	23.173	28.562	mg/kg	0.00286 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<57.5	mg/kg	1.462	<84.039	mg/kg	<0.0084 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		21.8	mg/kg	3.929	70.381	mg/kg	0.00704 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24.2	mg/kg		19.885	mg/kg	0.00199 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		16.4	mg/kg	1.579	21.285	mg/kg	0.00213 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		38.4	mg/kg	1.785	56.328	mg/kg	0.00563 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		48	mg/kg	2.469	97.392	mg/kg	0.00974 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.026	mg/kg		<0.026	mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.8	mg/kg	2.456	1.614	mg/kg	0.000161 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				744.7	mg/kg	2.749	1681.886	mg/kg	0.168 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.233	mg/kg	0.000123 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.219 %		

Key

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

Classification of sample: TP107

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

Sample details

Sample Name:
TP107
Sample Depth:
0.3 m
Moisture content:
17.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 17.1% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.5 pH		6.5 pH	6.5 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				7.6	mg/kg	1.32	8.569	mg/kg	0.000857 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				50.9	mg/kg	1.437	62.461	mg/kg	0.00625 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.48	mg/kg	8.868	3.635	mg/kg	0.000364 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1	mg/kg	23.173	19.789	mg/kg	0.00198 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<22.4	mg/kg	1.462	<32.739	mg/kg	<0.00327 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				13.8	mg/kg	3.929	46.303	mg/kg	0.00463 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	21.4	mg/kg		18.275	mg/kg	0.00183 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				14.7	mg/kg	1.579	19.828	mg/kg	0.00198 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				26.9	mg/kg	1.785	41.009	mg/kg	0.0041 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				38.3	mg/kg	2.469	80.763	mg/kg	0.00808 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.258	mg/kg	0.000126 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				392.5	mg/kg	2.749	921.274	mg/kg	0.0921 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.769	mg/kg	0.0000769 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.129 %		

Key

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

Classification of sample: TP108

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

Sample details

Sample Name:
TP108
Sample Depth:
1 m
Moisture content:
14.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.5 pH		7.5 pH	7.5 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.6	mg/kg	1.32	11.041	mg/kg	0.0011 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		67.2	mg/kg	1.437	84.116	mg/kg	0.00841 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.85	mg/kg	8.868	6.566	mg/kg	0.000657 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.8	mg/kg	23.173	16.148	mg/kg	0.00161 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				0.1	mg/kg		0.0871	mg/kg	0.00000871 %	✓	
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29.7	mg/kg	1.462	37.812	mg/kg	0.00378 %	✓	
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		13.8	mg/kg	3.929	47.231	mg/kg	0.00472 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11.8	mg/kg		10.279	mg/kg	0.00103 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		24.3	mg/kg	1.579	33.434	mg/kg	0.00334 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29.7	mg/kg	1.785	46.185	mg/kg	0.00462 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		38.7	mg/kg	2.469	83.242	mg/kg	0.00832 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		TPH (C6 to C40) petroleum group			TPH		<23.7	mg/kg		<23.7	mg/kg	<0.00237 %		<LOD
39		petrol (gasoline) petroleum group					<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.284	mg/kg	0.000128 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
41		manganese { manganese sulphate }				286.2	mg/kg	2.749	685.226	mg/kg	0.0685 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.653	mg/kg	0.0000653 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.109 %		

Key

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

Classification of sample: TP109

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

Sample details

Sample Name:
TP109
Sample Depth:
0.5 m
Moisture content:
16.5%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.5% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2 pH		7.2 pH	7.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.5	mg/kg	1.32	8.5	mg/kg	0.00085 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		50.9	mg/kg	1.437	62.783	mg/kg	0.00628 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.51	mg/kg	8.868	3.882	mg/kg	0.000388 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1	mg/kg	23.173	19.891	mg/kg	0.00199 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<21.6	mg/kg	1.462	<31.57	mg/kg	<0.00316 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		11.5	mg/kg	3.929	38.785	mg/kg	0.00388 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	15	mg/kg		12.876	mg/kg	0.00129 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15.8	mg/kg	1.579	21.422	mg/kg	0.00214 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26	mg/kg	1.785	39.841	mg/kg	0.00398 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		35	mg/kg	2.469	74.185	mg/kg	0.00742 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		TPH (C6 to C40) petroleum group			TPH		<24.4	mg/kg		<24.4	mg/kg	<0.00244 %		<LOD
39		petrol (gasoline) petroleum group					<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		antimony { antimony pentachloride }				0.5	mg/kg	2.456	1.054	mg/kg	0.000105 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
41		manganese { manganese sulphate }				481.5	mg/kg	2.749	1135.994	mg/kg	0.114 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.901	mg/kg	0.0000901 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.148 %		

Key

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

Classification of sample: TP110

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

Sample details

Sample Name:
TP110
Sample Depth:
1 m
Moisture content:
13.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.5 pH		7.5 pH	7.5 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	8.15	mg/kg	0.000815 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		55.8	mg/kg	1.437	70.708	mg/kg	0.00707 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.78	mg/kg	8.868	6.1	mg/kg	0.00061 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<22	mg/kg	1.462	<32.154	mg/kg	<0.00322 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		15.5	mg/kg	3.929	53.704	mg/kg	0.00537 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10.8	mg/kg		9.524	mg/kg	0.000952 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		19.2	mg/kg	1.579	26.743	mg/kg	0.00267 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22.3	mg/kg	1.785	35.105	mg/kg	0.00351 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		29.9	mg/kg	2.469	65.108	mg/kg	0.00651 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23.3	mg/kg		<23.3	mg/kg	<0.00233 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.5	mg/kg	2.456	1.083	mg/kg	0.000108 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				593.2	mg/kg	2.749	1437.785	mg/kg	0.144 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.179 %		

Key

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

Classification of sample: TP14

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

Sample details

Sample Name:
TP14
Sample Depth:
1 m
Moisture content:
15.2%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 15.2% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				6.3	mg/kg	1.32	7.221	mg/kg	0.000722 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				103	mg/kg	1.437	128.48	mg/kg	0.0128 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.79	mg/kg	8.868	6.081	mg/kg	0.000608 %	✓	
				7787-47-5									
23		boron { boron tribromide }				<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<28.5	mg/kg	1.462	<41.654	mg/kg	<0.00417 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				13.9	mg/kg	3.929	47.408	mg/kg	0.00474 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	9	mg/kg		7.813	mg/kg	0.000781 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				25.6	mg/kg	1.579	35.1	mg/kg	0.00351 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				27.2	mg/kg	1.785	42.15	mg/kg	0.00422 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				37.4	mg/kg	2.469	80.166	mg/kg	0.00802 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.5	mg/kg	2.456	1.066	mg/kg	0.000107 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				272.5	mg/kg	2.749	650.159	mg/kg	0.065 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.109 %		

Key

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

Classification of sample: TP15

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

Sample details

Sample Name:
TP15
Sample Depth:
0.2 m
Moisture content:
13.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2 pH		7.2 pH	7.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.2	mg/kg	1.32	8.383	mg/kg	0.000838 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		45.5	mg/kg	1.437	57.657	mg/kg	0.00577 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.45	mg/kg	8.868	3.519	mg/kg	0.000352 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.6	mg/kg	23.173	12.261	mg/kg	0.00123 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<23.6	mg/kg	1.462	<34.493	mg/kg	<0.00345 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		11.7	mg/kg	3.929	40.538	mg/kg	0.00405 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	31.3	mg/kg		27.601	mg/kg	0.00276 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		14	mg/kg	1.579	19.5	mg/kg	0.00195 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		25.9	mg/kg	1.785	40.773	mg/kg	0.00408 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		29.9	mg/kg	2.469	65.108	mg/kg	0.00651 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.3	mg/kg	2.456	0.65	mg/kg	0.000065 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				352	mg/kg	2.749	853.17	mg/kg	0.0853 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.119 %		

Key

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

Classification of sample: WS102

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

Sample details

Sample Name:
WS102
Sample Depth:
0.5 m
Moisture content:
18.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 18.8% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.7 pH		7.7 pH	7.7 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		0.16 mg/kg		0.135 mg/kg	0.0000135 %	✓	
9		anthracene 204-371-1 / 120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		0.58 mg/kg		0.488 mg/kg	0.0000488 %	✓	
11		pyrene 204-927-3 / 129-00-0		0.49 mg/kg		0.412 mg/kg	0.0000412 %	✓	
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		0.32 mg/kg		0.269 mg/kg	0.0000269 %	✓	
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		0.46 mg/kg		0.387 mg/kg	0.0000387 %	✓	
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		0.52 mg/kg		0.438 mg/kg	0.0000438 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				0.22	mg/kg		0.185	mg/kg	0.0000185 %	✓	
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				0.34	mg/kg		0.286	mg/kg	0.0000286 %	✓	
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				0.26	mg/kg		0.219	mg/kg	0.0000219 %	✓	
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				0.23	mg/kg		0.194	mg/kg	0.0000194 %	✓	
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				8.5	mg/kg	1.32	9.447	mg/kg	0.000945 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				76	mg/kg	1.437	91.928	mg/kg	0.00919 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.65	mg/kg	8.868	4.852	mg/kg	0.000485 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1.3	mg/kg	23.173	25.358	mg/kg	0.00254 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<22.7	mg/kg	1.462	<33.177	mg/kg	<0.00332 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				18.4	mg/kg	3.929	60.854	mg/kg	0.00609 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	30.3	mg/kg		25.505	mg/kg	0.00255 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				19	mg/kg	1.579	25.261	mg/kg	0.00253 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				23.4	mg/kg	1.785	35.163	mg/kg	0.00352 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				52.1	mg/kg	2.469	108.292	mg/kg	0.0108 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<LOD
				TPH									
39		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.447	mg/kg	0.000145 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
41		manganese { manganese sulphate }				458.4	mg/kg	2.749	1060.557	mg/kg	0.106 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.8	mg/kg	1.5	1.01	mg/kg	0.000101 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.152 %		

Key

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

Classification of sample: WS103

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

Sample details

Sample Name:
WS103
Sample Depth:
0.7 m
Moisture content:
26.6%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 26.6% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8 pH		8 pH	8pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	10.429	mg/kg	0.00104 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		68.8	mg/kg	1.437	78.092	mg/kg	0.00781 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.54	mg/kg	8.868	3.783	mg/kg	0.000378 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.1	mg/kg	23.173	20.134	mg/kg	0.00201 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<20.6	mg/kg	1.462	<30.108	mg/kg	<0.00301 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		21.7	mg/kg	3.929	67.346	mg/kg	0.00673 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	28.4	mg/kg		22.433	mg/kg	0.00224 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15.6	mg/kg	1.579	19.463	mg/kg	0.00195 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		22	mg/kg	1.785	31.022	mg/kg	0.0031 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		49.6	mg/kg	2.469	96.743	mg/kg	0.00967 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.027	mg/kg		<0.027	mg/kg	<0.0000027 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<27	mg/kg		<27	mg/kg	<0.0027 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.6	mg/kg	2.456	1.164	mg/kg	0.000116 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				406	mg/kg	2.749	881.451	mg/kg	0.0881 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.711	mg/kg	0.0000711 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.13 %		

Key

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

Classification of sample: WS104

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

Sample details

Sample Name:
WS104
Sample Depth:
0.5 m
Moisture content:
13.7%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.7% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.3	pH		8.3	pH	8.3 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				8.5	mg/kg	1.32	9.871	mg/kg	0.000987 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				74.5	mg/kg	1.437	94.156	mg/kg	0.00942 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.7	mg/kg	8.868	5.46	mg/kg	0.000546 %	✓	
				7787-47-5									
23		boron { boron tribromide }				<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<29.1	mg/kg	1.462	<42.531	mg/kg	<0.00425 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				12.8	mg/kg	3.929	44.232	mg/kg	0.00442 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	10.6	mg/kg		9.323	mg/kg	0.000932 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				21.4	mg/kg	1.579	29.728	mg/kg	0.00297 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				29.7	mg/kg	1.785	46.631	mg/kg	0.00466 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				37.3	mg/kg	2.469	81.007	mg/kg	0.0081 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		manganese { manganese sulphate }				443	mg/kg	2.749	1070.9	mg/kg	0.107 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.147 %		

Key

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

Classification of sample: WS104[1]

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

Sample details

Sample Name:
WS104[1]
Sample Depth:
1 m
Moisture content:
13.6%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13.6% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.2	pH		8.2	pH	8.2 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.4	mg/kg	1.32	7.438	mg/kg	0.000744 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		63.3	mg/kg	1.437	80.071	mg/kg	0.00801 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.58	mg/kg	8.868	4.528	mg/kg	0.000453 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		<0.5	mg/kg	23.173	<11.586	mg/kg	<0.00116 %		<LOD
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<24.9	mg/kg	1.462	<36.393	mg/kg	<0.00364 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		12	mg/kg	3.929	41.504	mg/kg	0.00415 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	8.8	mg/kg		7.746	mg/kg	0.000775 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		18.8	mg/kg	1.579	26.14	mg/kg	0.00261 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		25	mg/kg	1.785	39.287	mg/kg	0.00393 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		31.3	mg/kg	2.469	68.036	mg/kg	0.0068 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<23	mg/kg		<23	mg/kg	<0.0023 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		manganese { manganese sulphate }				309.6	mg/kg	2.749	749.08	mg/kg	0.0749 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.5	mg/kg	1.5	<0.75	mg/kg	<0.000075 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.11 %		

Key

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

Classification of sample: WS105

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

Sample details

Sample Name:
WS105
Sample Depth:
0.5 m
Moisture content:
77%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 77% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.6	pH		6.6	pH	6.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<2.2	mg/kg	1.884	<4.145	mg/kg	<0.000414 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<2.2	mg/kg		<2.2	mg/kg	<0.00022 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.35	mg/kg		<0.35	mg/kg	<0.000035 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				10.6	mg/kg	1.32	7.907	mg/kg	0.000791 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				210	mg/kg	1.437	170.489	mg/kg	0.017 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.59	mg/kg	8.868	2.956	mg/kg	0.000296 %	✓	
				7787-47-5									
23		boron { boron tribromide }				3.6	mg/kg	23.173	47.131	mg/kg	0.00471 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	0.32	mg/kg	1.285	0.232	mg/kg	0.0000181 %	✓	
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<17	mg/kg	1.462	<24.846	mg/kg	<0.00248 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				17.2	mg/kg	3.929	38.181	mg/kg	0.00382 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	17.2	mg/kg		9.718	mg/kg	0.000972 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.6	mg/kg	1.353	<0.812	mg/kg	<0.0000812 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				13.2	mg/kg	1.579	11.779	mg/kg	0.00118 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.9	mg/kg	2.554	1.298	mg/kg	0.00013 %	✓	
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				22.4	mg/kg	1.785	22.592	mg/kg	0.00226 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				39	mg/kg	2.469	54.408	mg/kg	0.00544 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.087	mg/kg		<0.087	mg/kg	<0.0000087 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<87	mg/kg		<87	mg/kg	<0.0087 %		<LOD
				TPH									
40		petrol (gasoline) petroleum group				<0.9	mg/kg		<0.9	mg/kg	<0.00009 %		<LOD
41		antimony { antimony pentachloride }				0.4	mg/kg	2.456	0.555	mg/kg	0.0000555 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				169.7	mg/kg	2.749	263.52	mg/kg	0.0264 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1.6	mg/kg	1.5	1.356	mg/kg	0.000136 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.0758 %		

Key

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

Classification of sample: WS106

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

Sample details

Sample Name:
WS106
Sample Depth:
0.5 m
Moisture content:
36.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 36.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.1 pH		7.1 pH	7.1 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.8 mg/kg	1.884	<1.507 mg/kg	<0.000151 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
11	pyrene		204-927-3	129-00-0		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17.9	mg/kg	1.32	17.276	mg/kg	0.00173 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		234	mg/kg	1.437	245.799	mg/kg	0.0246 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.5	mg/kg	8.868	9.724	mg/kg	0.000972 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.5	mg/kg	23.173	25.409	mg/kg	0.00254 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.22	mg/kg	1.285	<0.283	mg/kg	<0.000022 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<54.1	mg/kg	1.462	<79.07	mg/kg	<0.00791 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		26	mg/kg	3.929	74.675	mg/kg	0.00747 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	31	mg/kg		22.661	mg/kg	0.00227 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.54	mg/kg	1.353	<0.731	mg/kg	<0.0000731 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		37.6	mg/kg	1.579	43.413	mg/kg	0.00434 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1	mg/kg	2.554	1.867	mg/kg	0.000187 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		60.4	mg/kg	1.785	78.82	mg/kg	0.00788 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		69	mg/kg	2.469	124.548	mg/kg	0.0125 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.032	mg/kg		<0.032	mg/kg	<0.0000032 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<32	mg/kg		<32	mg/kg	<0.0032 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				1.2	mg/kg	2.456	2.154	mg/kg	0.000215 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				361.9	mg/kg	2.749	727.124	mg/kg	0.0727 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1.2	mg/kg	1.5	1.316	mg/kg	0.000132 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.149 %		

Key

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

Classification of sample: WS107

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

Sample details

Sample Name:
WS107
Sample Depth:
0.6 m
Moisture content:
23.5%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 23.5% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2 pH		7.2 pH	7.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				6	mg/kg	1.32	6.415	mg/kg	0.000641 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				100.3	mg/kg	1.437	116.704	mg/kg	0.0117 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.56	mg/kg	8.868	4.021	mg/kg	0.000402 %	✓	
				7787-47-5									
23		boron { boron tribromide }				0.6	mg/kg	23.173	11.258	mg/kg	0.00113 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<25.7	mg/kg	1.462	<37.562	mg/kg	<0.00376 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				7.7	mg/kg	3.929	24.497	mg/kg	0.00245 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	10	mg/kg		8.097	mg/kg	0.00081 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				19.2	mg/kg	1.579	24.556	mg/kg	0.00246 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				28.1	mg/kg	1.785	40.618	mg/kg	0.00406 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				43.2	mg/kg	2.469	86.375	mg/kg	0.00864 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.026	mg/kg		<0.026	mg/kg	<0.0000026 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				163.6	mg/kg	2.749	364.101	mg/kg	0.0364 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.729	mg/kg	0.0000729 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.0757 %		

Key

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

Classification of sample: WS108

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

Sample details

Sample Name:
WS108
Sample Depth:
0.3 m
Moisture content:
23.2%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 23.2% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		7.6	pH		7.6	pH	7.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	7.502	mg/kg	0.00075 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		124	mg/kg	1.437	144.631	mg/kg	0.0145 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.01	mg/kg	8.868	7.27	mg/kg	0.000727 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1	mg/kg	23.173	18.809	mg/kg	0.00188 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<40.3	mg/kg	1.462	<58.901	mg/kg	<0.00589 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		10	mg/kg	3.929	31.892	mg/kg	0.00319 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	16.8	mg/kg		13.636	mg/kg	0.00136 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		32.8	mg/kg	1.579	42.052	mg/kg	0.00421 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7	mg/kg	2.554	1.451	mg/kg	0.000145 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		42.5	mg/kg	1.785	61.583	mg/kg	0.00616 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		74.2	mg/kg	2.469	148.719	mg/kg	0.0149 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.026	mg/kg		<0.026	mg/kg	<0.0000026 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group		TPH		<26	mg/kg		<26	mg/kg	<0.0026 %		<**LOD**
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				238	mg/kg	2.749	530.973	mg/kg	0.0531 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.9	mg/kg	1.5	1.096	mg/kg	0.00011 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.11 %		

Key

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

Classification of sample: WS109

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

Sample details

Sample Name:
WS109
Sample Depth:
0.2 m
Moisture content:
30.6%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 30.6% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.4 pH		7.4 pH	7.4 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15.2 mg/kg	1.32	15.367 mg/kg	0.00154 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		241 mg/kg	1.437	265.17 mg/kg	0.0265 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.3 mg/kg	8.868	8.827 mg/kg	0.000883 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.9 mg/kg	23.173	15.969 mg/kg	0.0016 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.26 mg/kg	1.285	0.256 mg/kg	0.0000199 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<46 mg/kg	1.462	<67.232 mg/kg	<0.00672 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		19.4 mg/kg	3.929	58.364 mg/kg	0.00584 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	42.2 mg/kg		32.312 mg/kg	0.00323 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.6 mg/kg	1.353	<0.812 mg/kg	<0.0000812 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		31.1 mg/kg	1.579	37.613 mg/kg	0.00376 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.8 mg/kg	2.554	1.564 mg/kg	0.000156 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		69.4 mg/kg	1.785	94.864 mg/kg	0.00949 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		89.6 mg/kg	2.469	169.41 mg/kg	0.0169 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.029 mg/kg		<0.029 mg/kg	<0.0000029 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<29	mg/kg		<29	mg/kg	<0.0029 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		manganese { manganese sulphate }				863.6	mg/kg	2.749	1817.504	mg/kg	0.182 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				1.7	mg/kg	1.5	1.953	mg/kg	0.000195 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.262 %		

Key

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

Classification of sample: WS111

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

Sample details

Sample Name:
WS111
Sample Depth:
1 m
Moisture content:
14.9%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 14.9% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		7.9 pH		7.9 pH	7.9 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
9		anthracene 204-371-1 / 120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
11		pyrene 204-927-3 / 129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4	mg/kg	1.32	8.503	mg/kg	0.00085 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		105	mg/kg	1.437	131.317	mg/kg	0.0131 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.68	mg/kg	8.868	5.248	mg/kg	0.000525 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.7	mg/kg	23.173	14.118	mg/kg	0.00141 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<25.4	mg/kg	1.462	<37.124	mg/kg	<0.00371 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		14.5	mg/kg	3.929	49.583	mg/kg	0.00496 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.7	mg/kg		8.442	mg/kg	0.000844 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		22.7	mg/kg	1.579	31.205	mg/kg	0.00312 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		25.4	mg/kg	1.785	39.464	mg/kg	0.00395 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		33.5	mg/kg	2.469	71.994	mg/kg	0.0072 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<24	mg/kg		<24	mg/kg	<0.0024 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				0.7	mg/kg	2.456	1.496	mg/kg	0.00015 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				538.2	mg/kg	2.749	1287.447	mg/kg	0.129 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.914	mg/kg	0.0000914 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.172 %		

Key

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

Classification of sample: WS112

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

Sample details

Sample Name:
WS112
Sample Depth:
0.5 m
Moisture content:
15.4%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 15.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8 pH		8 pH	8pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				6.1	mg/kg	1.32	6.979	mg/kg	0.000698 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				81.3	mg/kg	1.437	101.236	mg/kg	0.0101 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.54	mg/kg	8.868	4.15	mg/kg	0.000415 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1	mg/kg	23.173	20.081	mg/kg	0.00201 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<18.5	mg/kg	1.462	<27.039	mg/kg	<0.0027 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				9.8	mg/kg	3.929	33.366	mg/kg	0.00334 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12.9	mg/kg		11.179	mg/kg	0.00112 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				14.3	mg/kg	1.579	19.573	mg/kg	0.00196 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				21.1	mg/kg	1.785	32.641	mg/kg	0.00326 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				32	mg/kg	2.469	68.473	mg/kg	0.00685 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		TPH (C6 to C40) petroleum group				<24.3	mg/kg		<24.3	mg/kg	<0.00243 %		<LOD
				TPH									
39		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		antimony { antimony pentachloride }				0.4	mg/kg	2.456	0.851	mg/kg	0.0000851 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
41		manganese { manganese sulphate }				390.4	mg/kg	2.749	929.843	mg/kg	0.093 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.78	mg/kg	0.000078 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.129 %		

Key

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

Classification of sample: WS113

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

Sample details

Sample Name:
WS113
Sample Depth:
0.5 m
Moisture content:
20.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 20.8% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		8.2	pH		8.2	pH	8.2 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		0.21	mg/kg		0.174	mg/kg	0.0000174 %	✓	
9		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		0.35	mg/kg		0.29	mg/kg	0.000029 %	✓	
11		pyrene		204-927-3	129-00-0		0.28	mg/kg		0.232	mg/kg	0.0000232 %	✓	
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.18	mg/kg		0.149	mg/kg	0.0000149 %	✓	
13		chrysene	601-048-00-0	205-923-4	218-01-9		0.21	mg/kg		0.174	mg/kg	0.0000174 %	✓	
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.21	mg/kg		0.174	mg/kg	0.0000174 %	✓	

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
15		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		0.11 mg/kg		0.0911 mg/kg	0.00000911 %	✓	
16		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		0.16 mg/kg		0.132 mg/kg	0.0000132 %	✓	
17		indeno[123-cd]pyrene 205-893-2 / 193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene 205-883-8 / 191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		8.7 mg/kg	1.32	9.509 mg/kg	0.000951 %	✓	
21		barium { barium carbonate } 056-003-00-2 / 208-167-3 / 513-77-9		74.1 mg/kg	1.437	88.146 mg/kg	0.00881 %	✓	
22		beryllium { beryllium chloride } 7787-47-5		0.55 mg/kg	8.868	4.038 mg/kg	0.000404 %	✓	
23		boron { boron tribromide } 005-003-00-0 / 233-657-9 / 10294-33-4		1.1 mg/kg	23.173	21.101 mg/kg	0.00211 %	✓	
24		cadmium { cadmium sulfide } 048-010-00-4 / 215-147-8 / 1306-23-6	1	0.2 mg/kg	1.285	0.213 mg/kg	0.0000166 %	✓	
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex 024-017-00-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide } 215-160-9 / 1308-38-9		<21.1 mg/kg	1.462	<30.839 mg/kg	<0.00308 %		<LOD
27		copper { copper sulphate pentahydrate } 029-023-00-4 / 231-847-6 / 7758-99-8		19.5 mg/kg	3.929	63.424 mg/kg	0.00634 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	35.6 mg/kg		29.47 mg/kg	0.00295 %	✓	
29		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.52 mg/kg	1.353	<0.704 mg/kg	<0.0000704 %		<LOD
30		nickel { nickel dihydroxide } 028-008-00-X / 235-008-5 [1] 234-348-1 [2] / 12054-48-7 [1] 11113-74-9 [2]		16 mg/kg	1.579	20.921 mg/kg	0.00209 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8 / 215-239-8 / 1314-62-1		23.2 mg/kg	1.785	34.285 mg/kg	0.00343 %	✓	
33		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		54.7 mg/kg	2.469	111.813 mg/kg	0.0112 %	✓	
34		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
35		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
36		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.0253 mg/kg		<0.0253 mg/kg	<0.00000253 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.8	mg/kg	2.456	1.626	mg/kg	0.000163 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				375	mg/kg	2.749	853.238	mg/kg	0.0853 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.242	mg/kg	0.000124 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.13 %		

Key

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

Classification of sample: WS113[1]

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

Sample details

Sample Name:
WS113[1]
Sample Depth:
2 m
Moisture content:
36.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 36.1% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.1 pH		6.1 pH	6.1 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.8 mg/kg	1.884	<1.507 mg/kg	<0.000151 %		<LOD
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<LOD
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
5	acenaphthylene		205-917-1	208-96-8		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
6	acenaphthene		201-469-6	83-32-9		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
7	fluorene		201-695-5	86-73-7		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
8	phenanthrene		201-581-5	85-01-8		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
9	anthracene		204-371-1	120-12-7		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
10	fluoranthene		205-912-4	206-44-0		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
11	pyrene		204-927-3	129-00-0		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
13	chrysene	601-048-00-0	205-923-4	218-01-9		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<LOD
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				10.8	mg/kg	1.32	10.477	mg/kg	0.00105 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				110.4	mg/kg	1.437	116.563	mg/kg	0.0117 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.78	mg/kg	8.868	5.082	mg/kg	0.000508 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1.4	mg/kg	23.173	23.837	mg/kg	0.00238 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	0.36	mg/kg	1.285	0.34	mg/kg	0.0000265 %	✓	
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<32.6	mg/kg	1.462	<47.647	mg/kg	<0.00476 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				31	mg/kg	3.929	89.493	mg/kg	0.00895 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	52	mg/kg		38.207	mg/kg	0.00382 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.64	mg/kg	1.353	<0.866	mg/kg	<0.0000866 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				23	mg/kg	1.579	26.692	mg/kg	0.00267 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.6	mg/kg	2.554	<1.532	mg/kg	<0.000153 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				34.7	mg/kg	1.785	45.515	mg/kg	0.00455 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				93.3	mg/kg	2.469	169.277	mg/kg	0.0169 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.0313	mg/kg		<0.0313	mg/kg	<0.00000313 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				31.8	mg/kg		23.365	mg/kg	0.00234 %	✓	
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				1.4	mg/kg	2.456	2.526	mg/kg	0.000253 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				465	mg/kg	2.749	939.076	mg/kg	0.0939 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				1.5	mg/kg	1.5	1.653	mg/kg	0.000165 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.155 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00234%)

Classification of sample: WS114

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

Sample details

Sample Name:
WS114
Sample Depth:
0.5 m
Moisture content:
19%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 19% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.8	pH		8.8	pH	8.8 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
4	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5	acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6	acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7	fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8	phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9	anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10	fluoranthene		205-912-4	206-44-0		0.2	mg/kg		0.168	mg/kg	0.0000168 %	✓	
11	pyrene		204-927-3	129-00-0		0.22	mg/kg		0.185	mg/kg	0.0000185 %	✓	
12	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.16	mg/kg		0.134	mg/kg	0.0000134 %	✓	
13	chrysene	601-048-00-0	205-923-4	218-01-9		0.2	mg/kg		0.168	mg/kg	0.0000168 %	✓	
14	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.23	mg/kg		0.193	mg/kg	0.0000193 %	✓	

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.1	mg/kg		0.084	mg/kg	0.0000084 %	✓	
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.2	mg/kg		0.168	mg/kg	0.0000168 %	✓	
17		indeno[123-cd]pyrene		205-893-2	193-39-5		0.14	mg/kg		0.118	mg/kg	0.0000118 %	✓	
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		0.16	mg/kg		0.134	mg/kg	0.0000134 %	✓	
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	8.876	mg/kg	0.000888 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		64.4	mg/kg	1.437	77.766	mg/kg	0.00778 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		0.54	mg/kg	8.868	4.024	mg/kg	0.000402 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1	mg/kg	23.173	19.473	mg/kg	0.00195 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<17.7	mg/kg	1.462	<25.87	mg/kg	<0.00259 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		21.5	mg/kg	3.929	70.987	mg/kg	0.0071 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	63	mg/kg		52.941	mg/kg	0.00529 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		16.2	mg/kg	1.579	21.502	mg/kg	0.00215 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		21.6	mg/kg	1.785	32.403	mg/kg	0.00324 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		66.4	mg/kg	2.469	137.783	mg/kg	0.0138 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.025	mg/kg		<0.025	mg/kg	<0.0000025 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<25	mg/kg		<25	mg/kg	<0.0025 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
41		antimony { antimony pentachloride }				1.2	mg/kg	2.456	2.476	mg/kg	0.000248 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				414	mg/kg	2.749	956.223	mg/kg	0.0956 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.8	mg/kg	1.5	1.009	mg/kg	0.000101 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.144 %		

Key

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

Classification of sample: WS114[1]

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

Sample details

Sample Name:
WS114[1]
Sample Depth:
1 m
Moisture content:
20.1%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 20.1% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		pH PH		8.6 pH		8.6 pH	8.6 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<**LOD**
3		phenol 604-001-00-2 / 203-632-7 / 108-95-2		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<**LOD**
4		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		acenaphthylene 205-917-1 / 208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		acenaphthene 201-469-6 / 83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		fluorene 201-695-5 / 86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		phenanthrene 201-581-5 / 85-01-8		0.16 mg/kg		0.133 mg/kg	0.0000133 %	✓	
9		anthracene 204-371-1 / 120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		fluoranthene 205-912-4 / 206-44-0		0.64 mg/kg		0.533 mg/kg	0.0000533 %	✓	
11		pyrene 204-927-3 / 129-00-0		0.69 mg/kg		0.575 mg/kg	0.0000575 %	✓	
12		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		0.46 mg/kg		0.383 mg/kg	0.0000383 %	✓	
13		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		0.61 mg/kg		0.508 mg/kg	0.0000508 %	✓	
14		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		0.79 mg/kg		0.658 mg/kg	0.0000658 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[k]fluoranthene				0.34	mg/kg		0.283	mg/kg	0.0000283 %	✓	
		601-036-00-5	205-916-6	207-08-9									
16		benzo[a]pyrene; benzo[def]chrysene				0.65	mg/kg		0.541	mg/kg	0.0000541 %	✓	
		601-032-00-3	200-028-5	50-32-8									
17		indeno[123-cd]pyrene				0.43	mg/kg		0.358	mg/kg	0.0000358 %	✓	
			205-893-2	193-39-5									
18		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		benzo[ghi]perylene				0.46	mg/kg		0.383	mg/kg	0.0000383 %	✓	
			205-883-8	191-24-2									
20		arsenic { arsenic trioxide }				9	mg/kg	1.32	9.894	mg/kg	0.000989 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
21		barium { barium carbonate }				75.4	mg/kg	1.437	90.215	mg/kg	0.00902 %	✓	
		056-003-00-2	208-167-3	513-77-9									
22		beryllium { beryllium chloride }				0.64	mg/kg	8.868	4.726	mg/kg	0.000473 %	✓	
				7787-47-5									
23		boron { boron tribromide }				1	mg/kg	23.173	19.295	mg/kg	0.00193 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
24		cadmium { cadmium sulfide }			1	0.24	mg/kg	1.285	0.257	mg/kg	0.00002 %	✓	
		048-010-00-4	215-147-8	1306-23-6									
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		024-017-00-8											
26		chromium in chromium(III) compounds { chromium(III) oxide }				<21.6	mg/kg	1.462	<31.57	mg/kg	<0.00316 %		<LOD
			215-160-9	1308-38-9									
27		copper { copper sulphate pentahydrate }				25.5	mg/kg	3.929	83.423	mg/kg	0.00834 %	✓	
		029-023-00-4	231-847-6	7758-99-8									
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	63.9	mg/kg		53.206	mg/kg	0.00532 %	✓	
		082-001-00-6											
29		mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
30		nickel { nickel dihydroxide }				18.6	mg/kg	1.579	24.462	mg/kg	0.00245 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	37.16	mg/kg	0.00372 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
33		zinc { zinc sulphate }				114.4	mg/kg	2.469	235.21	mg/kg	0.0235 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
34		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025	mg/kg		<0.025	mg/kg	<0.0000025 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				35.3	mg/kg		29.392	mg/kg	0.00294 %	✓	
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				1.1	mg/kg	2.456	2.249	mg/kg	0.000225 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				487	mg/kg	2.749	1114.53	mg/kg	0.111 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.8	mg/kg	1.5	0.999	mg/kg	0.0000999 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.175 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Free phase product not observed. TPH (C6-C40) has a HP3(i) (Flammable) classification (may be highly flammable at high concentrations). Where a substance has a HP3 classification, it is assumed that enough material is present for ignition to occur, i.e. that the chemical is in its raw from, not within the soil matrix. In the case of soils, ignition is unlikely at concentrations <1000 mg/kg TPH. However, this would need to be confirmed by the operator of the landfill where the waste is intended to be taken.

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS115

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

Sample details

Sample Name:
WS115
Sample Depth:
0.5 m
Moisture content:
31.6%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 31.6% Dry Weight Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		pH			PH		6.7	pH		6.7	pH	6.7 pH		
2		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
4		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
5		acenaphthylene		205-917-1	208-96-8		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
6		acenaphthene		201-469-6	83-32-9		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
7		fluorene		201-695-5	86-73-7		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
8		phenanthrene		201-581-5	85-01-8		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
9		anthracene		204-371-1	120-12-7		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
10		fluoranthene		205-912-4	206-44-0		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
11		pyrene		204-927-3	129-00-0		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
12		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
13		chrysene	601-048-00-0	205-923-4	218-01-9		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
14		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
16		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
17		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
19		benzo[ghi]perylene		205-883-8	191-24-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
20		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	10.033	mg/kg	0.001 %	✓	
21		barium { barium carbonate }	056-003-00-2	208-167-3	513-77-9		150	mg/kg	1.437	163.789	mg/kg	0.0164 %	✓	
22		beryllium { beryllium chloride }			7787-47-5		1.3	mg/kg	8.868	8.76	mg/kg	0.000876 %	✓	
23		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		1.2	mg/kg	23.173	21.13	mg/kg	0.00211 %	✓	
24		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
25		chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex	024-017-00-8				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		<50.1	mg/kg	1.462	<73.224	mg/kg	<0.00732 %		<LOD
27		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		16.3	mg/kg	3.929	48.665	mg/kg	0.00487 %	✓	
28		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24	mg/kg		18.237	mg/kg	0.00182 %	✓	
29		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
30		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		31.9	mg/kg	1.579	38.287	mg/kg	0.00383 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.6	mg/kg	2.554	1.164	mg/kg	0.000116 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		60.6	mg/kg	1.785	82.205	mg/kg	0.00822 %	✓	
33		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		57.2	mg/kg	2.469	107.328	mg/kg	0.0107 %	✓	
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
37		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.029	mg/kg		<0.029	mg/kg	<0.0000029 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		TPH (C6 to C40) petroleum group				<29	mg/kg		<29	mg/kg	<0.0029 %		<**LOD**
				TPH									
40		petrol (gasoline) petroleum group				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
41		antimony { antimony pentachloride }				0.5	mg/kg	2.456	0.933	mg/kg	0.0000933 %	✓	
		051-002-00-3	231-601-8	7647-18-9									
42		manganese { manganese sulphate }				192	mg/kg	2.749	401.006	mg/kg	0.0401 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
43		molybdenum { molybdenum(VI) oxide }				0.6	mg/kg	1.5	0.684	mg/kg	0.0000684 %	✓	
		042-001-00-9	215-204-7	1313-27-5									
										Total:	0.101 %		

Key

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

Appendix A: Classifier defined and non CLP determinands

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Risk Phrases: None.
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 Risk Phrases: None.
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

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
Risk Phrases: R38 , R37 , R36 , R27 , R26 , R22
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: N R51/53 , N R50/53 , R38 , R37 , R36
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: N R50/53 , R43 , R40 , R38 , R37 , R36 , R22
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: N R50/53 , R43 , R38 , R37 , R36
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Risk Phrases: N R50/53 , Xn R22
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Risk Phrases: N R50/53 , Xi R36/37/38
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: R40
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
Risk Phrases: N R50/53
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

beryllium chloride (CAS Number: 7787-47-5)

Conversion factor: 8.868
Description/Comments: Data from C&L Inventory Database; No entries in Registered Substances Database, IARC or Pesticide Properties Database
Data source:
http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=27264&HarmOnly=no?fc=true&lang=en
Data source date: 02 Jun 2014
Risk Phrases: R51/53 , R48/23 , R36/37/38 , R45 , R43 , R25
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT RE 1 H372 , Carc. 1B H350 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 3 H301

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

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: R61 , R60 , R50/53 , R43 , R42 , R38 , R37 , R36 , R22 , R20
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

copper sulphate pentahydrate (EC Number: 231-847-6, CAS Number: 7758-99-8)

CLP index number: 029-023-00-4
Description/Comments: M-factor for long-term aquatic hazard not included as per paragraph (5), ATP9
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 >= 2.5 %, N R50/53
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s)/Risk Phrase(s):
10 Oct 2016 - N R50/53 >= 2.5 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10 Oct 2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

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

CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 1; Carcinogenic to humans; Lead REACH Consortium considers some lead compounds Carcinogenic category 1A
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

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

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

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
Risk Phrases: R65 , R63 , R51/53 , R46 , R45 , R10
Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

petrol (gasoline) petroleum group

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
Risk Phrases: R67 , R65 , R63 , R51/53 , R46 , R45 , R38 , R12
Hazard Statements: Aquatic Chronic 2 H411 , Asp. Tox. 1 H304 , STOT SE 3 H336 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , Skin Irrit. 2 H315 , Flam. Liq. 1 H224

Appendix B: Rationale for selection of metal species

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

Only available species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

barium {barium carbonate}

Most likely species based on natural abundance and solubility

beryllium {beryllium chloride}

Worst Case

boron {boron tribromide}

Worst case

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {copper sulphate pentahydrate}

worst case

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

worst case after chromate (not enough CrVI)

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

vanadium {divanadium pentaoxide; vanadium pentoxide}

Only available species

zinc {zinc sulphate}

worst case after chromate (insufficient CrVI)

antimony {antimony pentachloride}

worst case

manganese {manganese sulphate}

worst case

molybdenum {molybdenum(VI) oxide}

only available species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition, May 2015
HazWasteOnline Classification Engine Version: 2018.123.3531.7212 (03 May 2018)
HazWasteOnline Database: 2018.123.3531.7212 (03 May 2018)

This classification utilises the following guidance and legislation:
WM3 - Waste Classification - May 2015
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010