Hampshire Water Transfer and Water Recycling Project

Environmental Statement - Appendix 11.2 Geotechnical and geo-environmental reports - 4 of 18 documents - Geotechnical and Geo-environmental Interpretative Report for Ground Investigation in Section F (Phase 2 and Phase 3B/3C) Addendum to Summary Report

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1 Introduction and Objectives

1.1 Background and Scheme Overview

Water for Life Hampshire (WfLH) is a programme being undertaken by Southern Water Services Limited (hereby referred to as "the Applicant") to address the sustainability objectives of reduced abstractions on Hampshire's two main rivers, the River Test and River Itchen, and to ensure a resilient water supply for the Applicant'scustomers during times of drought. The Hampshire Water Transfer and Water Recycling Project (HWTWRP) (hereafter referred to as the 'Proposed Development') is the Strategic Resource Option project being delivered as part of the WfLH programme (Southern Water, 2024). An overview of the Proposed Development, at the time of this report production, is provided in the Applicant's HWTWRP Technical Document Technology Guide (Southern Water, 2024).

1.2 Terms of Reference

Strategic Solutions Partner (SSP) has been instructed by the Applicant as part of the Proposed Development to produce a Geotechnical and Geo-environmental Interpretative Report, for ground investigations (GI) completed for the construction of the proposed underground pipeline. The Proposed Development has been divided into 12 Sections by the Applicant; these are referred to as Sections A to M (excluding I).

1.3 Ground Investigation Programme

The GI for the Proposed Development is being completed using a phased approach as shown in **Table 1.1**. This document reports the findings of the GI works completed during Phase 2 and Phase 3B/3C within Section F only.

Table 1.1: Ground Investigation Programme

GI Phase	Description
Phase 0	This, with Phases 1 and 3A, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor), and as specified by SSP (AECOM), primarily for the purpose of tunnel and shaft design (Sections B, C, D and M only), and comprised 11 boreholes.
Phase 1	This, with Phases 0 and 3A, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor), and as specified by SSP (AECOM), primarily for the purpose of tunnel and shaft design (Sections B, C, D, L and M only), and comprised 35 exploratory hole locations.
Phase 2	This is part of a wider phased GI conducted along the route between February 2023 and July 2023 by SOCOTEC for Clancy (Principal Contractor), and as specified by SSP, primarily for the purpose of investigating areas for non-pipeline infrastructure, trenchless crossings and potential sources of contamination (PSC).
Phase 3A	This, with Phases 0 and 1, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor), and as specified by SSP (AECOM), primarily for the purpose of tunnel and shaft design (Sections B, C, D, L and M only) and comprised 14 exploratory hole locations.
Phase 3B/3C	This, with several Phase 2 GI locations was completed between May 2023 and May 2024 by SOCOTEC for Clancy (Principal Contractor), and as specified by SSP, primarily for the purpose of investigating areas for non-pipeline infrastructure, trenchless crossings, PSCs and the linear route.

1.4 Section F Ground Investigation Objectives

The Phase 2 and Phase 3B/3C Section F GI investigated the following:

- Non-infrastructure Above Ground Plant (AGP) Intermediate Pumping Station (IPS-F) location.
- Areas of potential sources of contamination (PSCs) deemed moderate/low risk or higher as identified in the HWTWRP Geotechnical and Geo-Environmental Desk Study Version 3 Version 4 (SSP, 2024).
- Trenchless crossings beneath the River Wallington.
- Geological conditions at selected locations along the linear pipeline route.

The Phase 2 and Phase 3B/3C Section F GI was completed at the following locations:

- At the proposed IPS-F (exploratory holes 2F3504DS, 2F3505DS, 3F3523DR and 3F3524DR).
- At potential launch/reception locations for the proposed trenchless crossing beneath the River Wallington (exploratory holes 2F3502SA and 2F3503SA).
- Near to two historical landfills (exploratory holes 2F3504DS, 2F3505DS, 2F3513DS, 2F3514DS and 2F3537DS) located either within the DoL or within 50 m of the DoL. .
- Near to four former potentially infilled chalk pits (exploratory holes 2F3500DS, 2F3501DS, 2F3515DS, 3W8553DS and 3W8554DS), a clay pit (exploratory holes 3W8559TP, 3W8563TP and 3W8567SA) and a brickworks (exploratory hole 3W8558SA), all located either within the DoL or 50 m of the DoL.
- At six locations to understand the geology along the linear route (exploratory holes 3F3517DS, 3F3519HP, 3F3521HP, 3F3601HP, 3F3602HP and 3W8556DS).
- At four locations at the site of IPS-F in order for BRE365 infiltration tests to be completed (3F7509IT, 3F7510IT, 3F7512IT and 3F7513IT) to assist flood level risk assessments by SSP hydrologists to be undertaken.

Two of the PSCs investigated as part of Phase 2 now fall outside of the DoL and are therefore not assessed herein from a geo-environmental or geotechnical perspective; these are PSC 11 (former nearby Landfill - Heytesbury Farm Landfill) which was investigated by 2F3513DS, 2F3514DS and 2F3537DS, and PSC 12 (Pit - Various) which was investigated by 2F3515DS. Exploratory location 2F3512RC also completed during Phase 2 is over 100 m west from the DoL and is not assessed herein.

Two PSCs included in the Phase 2 GI scope, PSC 6 (Albany Farm Landfill Site Reference FFA3, 10/2) and PSC 15 (unknown landfill/stockpile soil), could not be investigated due to land access constraints. Access still could not be obtained during the Phase 3B/3C GI, and these locations have not been investigated to date. Other areas excluded are Albany Farm and an old pit, for which the potential for the presence of significant contamination is considered not high, as defined in the Methodology for Identification of Ground Investigation (SSP, 2022b).

It is expected that the contractor will assess PSCs not assessed by the GI (where additional information is needed) and other, additional PSCs, identified during subsequent phases of the Proposed Development as part of their construction phase works, to understand and comply with contaminated land, health & safety, waste classification and any other relevant guidance.

1.5 Report Format

This report comprises both geotechnical and geo-environmental interpretation of data collated during the GI as outlined below:

Section 1 Introduction and report objectives.

Section 2 Description including the location and site description.

Section 3 Summary of the GIs (SOCOTEC, 2023) (SOCOTEC, 2024)

Section 4 Ground Model.

Section 5 GI results, data interpretation and geo-environmental risk assessment, and geo-environmental considerations for the outline proposed works.

Section 6 Development of the land contamination risk assessment model from the GI.

Section 7 Geotechnical Testing and Assessment including geotechnical summary tables and figures and design parameters.

Section 8 Geotechnical Considerations including hazard and mitigation table, discussions on ground conditions, foundation design, excavations, groundwater control, flotation, trenchless construction and concrete aggressivity.

Section 9 Conclusions.

Section 10 Recommendations based on the results of the GI.

This report provides a summary of encountered ground conditions, existing GI results, geotechnical and geo-environmental interpretation of analysis undertaken to inform design of potential future structures and pipeline, health and safety of construction and future ground workers (construction), and excavated materials (waste) management.

A land contamination risk assessment for other potential future receptors such as farmers/ farm workers or members of the public accessing and working within the Proposed Development is outside the scope of this report. Further ground investigation and human health risk assessment may be required to determine the risk to these, and any other identified potential future receptors, particularly in regard to appropriate excavated materials management (e.g. proposed reuse of soils).

Assessment of the GI data collected across the other Proposed Development Sections is included in the separate relevant section reports which are collated in one summary Geotechnical and Geo-environmental Interpretative GI report (Ref.710166-SWS-XX-XX-RP-GE-00100).

2 Section F Description

2.1 Location and Description

Section F route is shown in the **Figures** section. The pipeline chainage ranges from 11300 m to 14800 m as provided by the Applicant as of 12 March 2024, part of the Summer 2024 Design Consultation Route.

Section F starts at an elevation of approximately 56 m Ordnance Datum (OD) near to Boarhunt Road (National Grid Reference (NGR) 459359E, 108022N; chainage 11300 m) then progresses west and northwest with a minimum elevation of 6 m OD at River Wallington (458766E, 108531N), ending in farmland to the west of Forest Lane (NGR 458022E ,110131N; chainage 14800 m) at approximately 63 m OD.

The pipeline will be constructed using a combination of open-cut and trenchless techniques. The majority of the approximate 3.6 km length of Section F consists of ductile iron (DI) pipeline at 1200 mm diameter in open-cut trenches at between 3 – 6 m bgl (below ground level) across arable fields and minor roads, and with trenchless construction at between approximately 9 – 11 m bgl under the River Wallington. Temporary launch and reception shafts at the trenchless crossing location will be sunk. Launch shaft dimensions will range between 9.0 – 9.5 m diameter and reception shafts will range between 5.0 – 5.4 m diameter.

2.2 Above Ground Plant

Within Section F, there is an Above Ground Plant (AGP) site called Intermediate Pumping Station – F (IPS-F). It's located within a flat arable field (approximately 20 m OD), approximately 400 m east of Wickham Road A32, and adjacent to a gravel farm track, centred at NGR 458245E,109002N as shown in the **Figures**. The proposed structures are as follows:

- A Pump House of 30 m length x 11 m width x 8 m height;
- A partially below ground Pump Sump Twin Cell with a 2 Mega litre (ML) capacity comprising 2No. cells each with 1 ML capacity;
- HV & LV Switchroom;
- Compressor Kiosk;
- 2 No. 30m^3 Surge Vessels;
- 3 No. Air cooler units;
- Fuel Storage;
- Transformers;
- Generator; and
- Site access road with fuel delivery bund.

3 Phase 2 and Phase 3B/3C Ground Investigation

3.1 Rationale for Ground Investigation Locations

The Phase 2 GI, across Section F, focused on five Potential Sources of Contamination (PSCs) identified by the desk study within 50 m of the DoL to have a risk classification of Moderate for human health (construction workers, maintenance workers and future site users) and controlled waters (groundwater) (SSP, 2024); Albany Farm Historical Landfill (PSC 5), Heytesbury Farm Historical Landfill (PSC 11) and three former (potentially infilled) pits (PSCs 12, 22 and 24).

As stated in Section 1.0, changes in the route of the DoL for Section F means that PSCs 11 and 12 (SSP, 2024) are no longer within 50 m of the DoL. They are not considered further in this report from a geo-environmental perspective, as the distance from the DoL is sufficient to mitigate risk to the pipeline or construction workers.

The Phase 3B/3C exploratory hole locations were added due to the altered route, the following PSCs identified by the desk study to be within 50 m of the new DoL (SSP, 2024) were targeted; Works - Crockerhill Brickworks (PSC 1), Pit - Clay (PSC 2) and Pit - Chalk (PSC 25). Phase 3B/3C investigations were also completed to target proposed excavation areas at the trenchless crossing, and along the linear route to allow geotechnical testing to be undertaken. The rationale for the Phase 2 and Phase 3B/3C GI exploratory hole locations is summarised in **Table 3.1**.

An Electromagnetic (EM) Survey was completed across the IPS-F AGP site to detect the potential presence of buried chalk cavities. The EM survey was conducted prior to the completion of the exploratory hole locations in the area, and the results are discussed further in chapter **8.8** and **Appendix J** (SOCOTEC, 2024a).

Table 3.1: Rationale for Locations in Section F

BH ID	Rationale for GI Location [1]
2F3500DS	To investigate potential contamination from a former (potentially infilled land) Pit - sand (PSC 22).
2F3501DS	To investigate potential contamination from a former (potentially infilled land) Pit - chalk (PSC 24).
2F3502SA	To investigate proposed excavation areas for Trenchless Crossing (southeast of River Wallington).
2F3503SA	To investigate proposed excavation areas for Trenchless Crossing (northwest of River Wallington).
2F3504DS	To investigate potential contamination from the nearby Landfill - Albany Farm Historical Landfill (PSC 5).
2F3505DS	
2F3512RC	To investigate proposed excavation areas for Trenchless Crossing (south of Knowle Road and west of Wickham Road (A32)) during Phase 2 in 2023, on an previous development route and not considered further herein from a geotechnical perspective.
2F3513DS	To investigate potential contamination from Heytesbury Farm Historical Landfill (PSC 11), although the PSC is now outside the DoL, and is, therefore, not considered further herein from a geo-environmental or geotechnical perspective.
2F3514DS	
2F3515DS	To investigate potential contamination from former (potentially infilled land) Pit - Various (PSC 12), although the PSC is now outside the DoL, and is, therefore, not considered further herein from a geo-environmental or geotechnical perspective.

BH ID	Rationale for GI Location [1]
2F3537DS	To investigate potential contamination from Heytesbury Farm Historical Landfill (PSC 11), although the PSC is now outside the DoL, and is, therefore, not considered further herein from a geo-environmental or geotechnical perspective.
3F3517DS	To confirm the geology along the linear route
3F3519HP	
3F3521HP	
3F3523DR	IPS-F. Landfill – Albany Farm Historic Landfill (PSC 5) is also located 70 m and 40 m respectively southwest of these locations.
3F3524DR	
3F3601HP	To confirm the geology along the linear route.
3F3602HP	
3F7509IT	IPS-F. To undertake infiltration testing for flood risk assessment works.
3F7510IT	
3F7512IT	
3F7513IT	
3W8553DS	To investigate potential contamination from Pit - Chalk (PSC 25). Located approximately 15 m southwest.
3W8554DS	To investigate potential contamination from PSC 25, and to confirm the geology along the linear route. Located approximately 5 m west of PSC 25.
3W8556DS	To confirm the geology along the linearroute.
3W8558SA	To investigate potential contamination from Works - Crockerhill Brickworks (PSC 1). Located within eastern footprint of PSC 1.
3W8559TP	To investigate potential contamination from Pit - Clay (PSC 2). Located within footprint of PSC 2.
3W8563TP	
3W8567SA	

[1] PSCs within a 50 m buffer of the Section F DoL identified by the desk study which warranted further investigation (SSP, 2024).

3.2 Section F Ground Investigation

Phase 2 GI was carried out at selected locations across Section F by SOCOTEC between 24th February 2023 to 10th May 2023, and then 14th March to 30th May 2024 (Phase 3B/3C). The investigation scope was specified by SSP (SSP, 2022) (SSP, 2023d).

The following exploratory holes were completed during the Phase 2 GI:

- Exploratory hole (2F3512RC) completed by dynamic sampling with rotary coring follow on to 20 m below ground level (bgl).
- Two exploratory holes (2F3502SA and 2F3503SA) completed by cable percussion boring to 20 m bgl.
- Eight exploratory holes by dynamic sampling (2F3500DS, 2F3501DS, 2F3504DS, 2F3505DS, 2F3513DS, 2F3514DS, 2F3515DS, 2F3537DS) to depths of between 1.5 m and 6.45 m bgl. 2F3513DS failed to reach the scheduled depth of 6.0 m bgl (refusing at 3.25 m bgl on flint cobbles) and therefore an extra attempt was made (2F3537DS), which failed to progress beyond 1.5 m bgl.

The following exploratory holes were completed during the Phase 3B/3C GI:

- Two exploratory holes (3F3523DR and 3F3524DR) completed by dynamic sampling with rotary coring follow on to 30.2 m bgl.
- Two exploratory hole locations (3W8558SA and 3W8567SA) completed by cable percussion boring to depths of 10.0 m bgl an 8.0 m bgl respectively.
- Four exploratory holes by dynamic sampling (3F3517DS, 3W8553DS, 3W8554DS and 3W8556DS) to depths between 2.34 and 6.45 m bgl.
- Four hand excavated trial pits (3F3519HP, 3F3521HP, 3F3601HP and 3F3602HP) completed to depths between 1.0 and 1.2 m bgl.
- Two trial pits (3W8559TP and 3W8563TP) completed by machine excavator to a depth of 4.0 m bgl.
- Four infiltration pits (3F7509IT, 3F7510IT, 3F7512IT and 3F7513IT) completed by machine excavator to a depth of 2.50 m bgl.

A plan showing the exploratory hole locations is presented in the **Figures** section. The scope of the GI also included: in-situ geotechnical tests, volatile headspace testing by a Photo Ionisation Detector (PID), a falling head permeability test, geotechnical and geo-environmental sampling and testing, and groundwater and gas monitoring.

The details of the GI, tests and laboratory analysis are presented in the SOCOTEC Ground Investigation Report (SOCOTEC, 2023). A description of GI locations is shown in **Table 3.2**.

Table 3.2: Description of GI Locations

Hole ID	National Grid Reference [1]	Location Description
2F3500DS	460040, 108005	Located within a field approximately 160 m northwest of Boarhunt Road, approximately 500 m southwest of Boarhunt village. The surrounding land use is agricultural.
2F3501DS	459521, 108107	Located within a field approximately 320 m north of Nine Elms Lane, approximately 850 m southwest of Boarhunt village. The surrounding land use is agricultural.
2F3502SA[2]	458802, 108516	Located within a field approximately 150 m west of Whitedell Farm, approximately 300 m west of Whitedell Lane, approximately 1.5 km west of Boarhunt village. Wallington River is located approximately 40 m west. The surrounding land use is agricultural.
2F3503SA	458542, 108691	Located within a field approximately 450 m west-northwest of Whitedell Farm, approximately 1.8 km west of Boarhunt village. Wallington River is located approximately 240 m east. The surrounding land use is agricultural.
2F3504DS	458234, 108948	Located within a field approximately 370 m east of Wickham Road, approximately 250 m east of Albany Business Centre, approximately 1.9 km east of Knowle village. A small patch of woodland is located approximately 5 m southwest of these GI locations. The surrounding land use is agricultural.
2F3505DS	458218, 108971	
2F3512RC[2]	457718, 109093	Located immediately south of Knowle Road, approximately 75 m west of Wickham Road (A32), approximately 370 m south of Crockerhill hamlet. Land to the north, immediately across Knowle Road, is designated for Welborne Garden Village residential development with construction already underway. Other surrounding land use is agricultural, with commercial areas located approximately 150 m east (Albany Business Centre) and south (Charity Farm).
2F3513DS[2]	457041, 109323	Located immediately south of Knowle Road, approximately 500 m east of Knowle village. Land to the north, immediately across Knowle Road, is
2F3514DS[2]	457026, 109322	
2F3515DS[2]	456892, 109312	

Hole ID	National Grid Reference [1]	Location Description
2F3537DS[2]	457045, 109324	designated for Welborne Garden Village residential development with construction already underway. Other surrounding land use is agricultural.
3F3517DS	459624, 108113	Located within a grass field approximately 270 m to the north of Nine Elms Lane.
3F3519HP	459062, 108333	Located within a grass field approximately 260 m to the east of Whitedell Lane.
3F3521HP	458501, 108719	Located within a grass field approximately 580 m to the east of Wickham Road A32 and west of the River Wallington.
3F3523DR	458254, 109016	Located within a grass field approximately 400 m to the east of Wickham Road A32 and west of the River Wallington. The investigations are approximately 0.75 km southeast of Crockerhill, Hampshire.
3F3524DR	458230, 108993	
3F3601HP	459062, 108333	Located within a grass field approximately 2.5 km northeast of Fareham. The hand pit within the field is approximately 490 m to the north of Nine Elms Lane.
3F3602HP	458309, 108898	Located within a grass field approximately 400 m to the east of Wickham Road A32 and west of the River Wallington. The investigations are approximately 0.75 km southeast of Crockerhill, Hampshire.
3F7509IT	458294, 109004	
3F7510IT	458252, 109024	
3F7512IT	458229, 109027	
3F7513IT	458271, 108984	
3W8553DS	458261, 109090	Located within a grass field approximately 450 m to the east of Wickham Road A32 and west of the River Wallington. The boreholes are approximately 0.75 km southeast of Crockerhill, Hampshire.
3W8554DS	458250, 109123	
3W8556DS	458154, 109388	Located within a grass field approximately 430 m to the east of Wickham Road A32. The borehole is approximately 500 m southeast of Crockerhill, Hampshire.
3W8558SA	457897, 109638	Located within a grass field approximately 75 m east of Forest Lane. The borehole is approximately 150m east of Crockerhill, Hampshire.
3W8559TP	457908, 109620	Located within a grass field approximately 25 m southeast of Forest Lane. The investigations are approximately 0.45 km northeast of Crockerhill, Hampshire.
3W8563TP	457946, 109868	
3W8567SA	457982, 109882	

[1] As provided in the Ground Investigation Reports (SOCOTEC, 2023) (SOCOTEC, 2024).
[2] 2F3502SA, 2F3512RC, 2F3513DS, 2F3514DS, 2F3515DS, 2F3537DS locations are kept in Table 3.2 though geotechnical testing has not included across various geological formations.

There were 20 No. locations that were not investigated as part of ground investigation specifications supplied to the GI contractor prior to commencing (2F3506TP, 2F3507SA, 2F3508SA, 2F3509TP, 2F3510TP, 2F3511DS, 3F3516DS, 3F3518HP, 3F3520HP, 3F3522HP, 3F3526HP, 3F3527HP, 3F3532HP, 3F3534HP, 3F3536HP, 3F3600HP, 3F7511IT, 3F7514IT, 3F7515IT and 3F7516IT). The Applicant cancelled the Phase 2 holes in early February 2023 and Phase 3B/3C holes in January/February 2024 just before GI works commenced in late February 2023 for Phase 2 and March 2024 for Phase 3B/3C locations, due to reasons beyond SSP's control.

3.3 Exploratory Holes and Monitoring Well Installations

The exploratory hole locations and borehole logs are presented in SOCOTEC's Ground Investigation Reports (SOCOTEC, 2023) (SOCOTEC, 2024).

Table 3.3 provides a summary of the installation design and monitoring/sampling carried out. Groundwater and gas monitoring wells were installed in all boreholes, except for 2F3505DS, 2F3514DS, 2F3537DS and 3W8556DS. A plan showing the exploratory hole locations is presented in **Figures**.

Table 3.3: Summary of Groundwater and Ground Gas Monitoring

BH ID	Response Zones (m bgl)	Groundwater Monitoring Rounds	Gas Monitoring Rounds	Groundwater Samples Collected
2F3500DS	1.0-2.5 (Made Ground and Head Deposits)	7 No. (20 April 2023 to 8 September 2023)	7 No. (20 April 2023 to 8 September 2023)	None
2F3501DS	1.0-2.5 (Head Deposits)	7 No. (20 April 2023 to 8 September 2023)	7 No. (20 April 2023 to 8 September 2023)	None
2F3502SA [1]	2.0-20.0 (Head Deposits and Chalk)	15 No. (21 April 2023 to 6 March 2024)	11 No. (21 April 2023 to 06 March 2024)	2 No. (19 July 2023 and 12 September 2023)
2F3503SA	2.0-20 (Alluvium and Chalk)	12 No. (21 April 2023 to 7 March 2024)	11 No. (21 April 2023 to 07 March 2024)	2 No. (14 July 2023 and 12 September 2023)
2F3504DS	1.0-6.0 (Chalk)	6 No. (21 April 2023 to 12 September 2023)	6 No. (21 April 2023 to 12 September 2023)	None
2F3512RC	3.0-20.0 (Chalk)	7 No. (23 May 2023 to 8 November 2023)	7 No. (23 May 2023 to 8 November 2023)	None
2F3513DS	1.0-2.5 (Chalk)	7 No. (21 April 2023 to 8 September 2023)	7 No. (21 April 2023 to 8 September 2023)	None
2F3515DS	1.5-4.4 (Chalk)	7 No. (21 April 2023 to 8 September 2023)	7 No. (21 April 2023 to 8 September 2023)	None
3F3523DR	1.00 – 10.00 (Head Deposits and Chalk)	6 No. (2 April 2024 to 12 August 2024)	6 No. (2 April 2024 to 12 August 2024)	None
3F3524DR	1.40 – 10.50 (Head Deposits and Chalk)	4 No. (28 May 2024 to 12 August 2024)	4 No. (28 May 2024 to 30 July 2024)	None
3W8553DS	1.0 – 6.00 (Head Deposits and Chalk)	6 No. (3 May 2024 to 17 July 2024)	5 No. (14 May 2024 to 17 July 2024)	None
3W8554DS	1.00 – 6.00 (Head Deposits and Chalk)	6 No. (3 May 2024 to 17 July 2024)		None
3W8558SA	1.00 – 6.00 (Made Ground and Lambeth Group)	6 No. (1 May 2024 to 17 July 2024)		1 No. 14 May 2024
3W8567SA	1.00 – 2.50 (Made Ground)	6 No. (1 May 2024 to 17 July 2024)		2 No. 14 May 2024 and 28 May 2024

[1] A datalogger was installed in borehole 2F3502SA at 18.85 m bgl on 16th June 2023 at the request of the project hydrogeologists (i.e., during the third monitoring visit). Groundwater logger data was reported between 19th July 2023 and 9th March 2024. Readings were taken every 15 minutes. Monitoring data has been supplied to the project hydrogeologists as reporting and interpretation of data collected from dataloggers installed in this monitoring well is outside the scope of this GIR.

Response zone depths are taken from Table D1 in the SOCOTEC Ground Investigation Reports (SOCOTEC, 2023) (SOCOTEC, 2024). It is noted that on completion of drilling only one stratum was targeted in the response zones based upon the driller's descriptions. However, after all the draft logs were assigned geology codes/formal geological designations, some of the geologies were updated and crossing of strata boundaries within the response zone was noted.

3.4 Geo-Environmental Testing

Geo-environmental laboratory testing was scheduled by SSP on selected soil and groundwater samples recovered during the GI works. The testing was carried out by SOCOTEC at their UKAS accredited environmental chemistry laboratory at Bretby, near Burton-on-Trent, in accordance with MCERTS accreditation (where applicable). The scope of testing is listed in **Appendix B** and shows that several requested chemical analyses were not included in either in the data in AGS format or in the Ground Investigation Report (SOCOTEC, 2023) (SOCOTEC, 2024). It is not anticipated that this data will be supplied.

3.5 Geotechnical Testing

Geotechnical testing was scheduled by SSP on selected soil samples recovered during the GI works. The testing was carried out by nominated UKAS accredited geotechnical laboratories including: GEOLABS, near Watford, The Testing Lab (TTL) near Doncaster, and Derwentside Environmental Testing Services Ltd (DETS) near Durham. The testing comprised a combination of moisture content, Atterberg limits, density (linear), particle size distribution, saturation moisture content (chalk), unconfined compressive strength, point load index testing, unconsolidated undrained triaxial strength, compaction, chalk crushing value, chalk carbonate content, BRE testing, organic matter content and loss on ignition. The tests completed are presented in the SOCOTEC Ground Investigation Reports (SOCOTEC, 2023) (SOCOTEC, 2024).

4 Ground Model

4.1 Geological Setting

Superficial deposits across Section F are mapped near to the River Wallington (Alluvium, River Terrace Deposits and Head Deposits), Albany Business Centre (Head Deposits) and at the northwestern end by Ravenswood House (River Terrace Deposits), all of which are underlain by White Chalk Subgroup bedrock. The mapped extent of superficial deposits is summarised in **Table 4.1.** Section F has highly variable topography, and Head Deposits would comprise a mixture of solifluction (hillwash) materials of different origins, and also perhaps cryoturbation (from repeated freezing and thawing cycles).

Table 4.1: Summary of Mapped Superficial Deposits at Ground Level

Chainages (m)	Geology	Typical Description
11300 - 12695	Not present	-
12965 - 12750	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
12750 - 12885	Alluvium	Clay, silt and sand, locally organic; with gravel
12885 - 13060	River Terrace Deposits	Undifferentiated sand and gravel
13060 - 13555	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
13555 - 14800	Not present	-

The chainages have been provided by the Applicantas of 12 March 2024 as part of the Summer 2024 Design Consultation Route.

Where superficial deposits are absent, the Lambeth Group, White Chalk Subgroup and London Clay Formation outcrop as bedrock. The Lambeth Group and London Clay Formation are not overlain by superficial deposits along the route of Section F. The White Chalk Subgroup dominates as bedrock, except in the north of the section around Crockerhill. The mapped extent of Bedrock is summarised in **Table 4.2**. These strata are expanded upon within **Table 4.3** and **4.4** which summarise ground conditions encountered in Section F, as reported in the factual reports (SOCOTEC, 2023) (SOCOTEC, 2024).

Table 4.2: Summary of Mapped Bedrock at Ground Level

Chainages (m)	Geology	Typical Description
11300 - 13700	White Chalk Subgroup	White chalk with flints
13700 – 14015	Lambeth Group	Mottled clay, locally sandy
14015 - 14070	White Chalk Subgroup	White chalk with flints
14070 - 14345	Lambeth Group	Mottled clay, locally sandy
14345 - 14800	London Clay Formation	Grey and brown silty and sandy clays with sandy and pebbly beds

The chainages have been provided by the Applicant as of 12 March 2024 as part of the Summer 2024 Design Consultation Route.

4.2 Section F Ground Investigation Results

4.2.1 Encountered Ground

A brief summary of the ground conditions encountered during the GIs is provided in **Table 4.3** and **Table 4.4**. Exploratory hole logs and more details are presented in SOCOTEC's Ground Investigation Reports (SOCOTEC, 2023) (SOCOTEC, 2024). The ground conditions generally encountered correspond with the 2 No. BGS boreholes described in the desk study with Alluvium and White Chalk Subgroup being present.

In the desk study, River Terrace Deposits (RTD) were noted as primarily granular. In the GI, RTD was not definitively encountered. In the GI, Head Deposits were variable as predicted by the desk study. Head Deposits and/or Alluvium is more extensive than mapped.

Table 4.3: Summary of Encountered Ground Conditions in Section F Phase 2 Exploratory Holes

Exploratory Hole ID:		2F3500DS	2F3501DS	2F3502SA	2F3503SA	2F3504DS	2F3505DS	2F3512RC	2F3513DS	2F3514DS	2F3515DS	2F3537DS
Chainage		11275	11835	12735	13050	13460	13485	-	-	-	-	-
Ground Level (m OD)		+56.12	+44.36	+9.12	+8.52	+22.54	+23.47	+41.60	+44.04	+43.86	+41.95	+43.85
Strata	Typical description	Depth range (m bgl)										
Topsoil	Grass over soft dark brown sandy gravelly CLAY with roots and rootlets. / Gravel is of chert, chalk, and rare brick. / Dark brown slightly clayey gravelly SAND with occasional flint cobbles and frequent rootlets. Gravel is of flint.	-	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.20	0.00 – 0.30	0.00 – 0.35	0.00 – 0.20	0.00 – 0.25	0.00 – 0.30	0.00 – 0.20
Made Ground	Soft greyish brown slightly sandy slightly gravelly CLAY. Gravel includes red brick with occasional timber fibres and fragments of metal and rubber (<75 mm), flint and chalk.	0.00– 1.50	-	-	-	-	-	-	-	-	-	-
Alluvium	Soft greyish white or light cream sandy gravelly SILT. / Soft to firm locally stiff brown sandy gravelly CLAY. Gravel is of chalk and flint / Dark brown clayey SAND with occasional cobbles of flint	1.50 – 3.25	0.30 – 3.20	-	0.30 – 3.50	-	-	-	-	-	-	0.20 – 0.60
Head Deposits[&]	Firm locally stiff reddish brown sandy gravelly CLAY with cobbles of flint. Gravel is of flint and chalk / Loose brown clayey gravelly SAND with occasional flint cobbles and rare flint boulders. Gravel is of flint and chalk.	-	-	0.30 – 2.50	-	0.20 – 1.20	-	0.35 – 1.70	0.20 – 0.60	0.25 – 0.90	0.30 – 0.60	-
White Chalk Subgroup	At 2F3504DS: Possible structureless CHALK recovered as white silty sandy gravel. Possibly CIRIA grade Dc.	-	-	-	-	1.20 – 1.35	-	-	-	-	-	-
White Chalk Subgroup	At 2F3504DS: Probable very weak medium density CHALK. Possibly CIRIA grade B4.	-	-	-	-	1.35 – 3.00	-	-	-	-	-	-
White Chalk Subgroup	CHALK recovered as white putty (silt) / Light brownish white CHALK recovered as sandy silty chalk GRAVEL with occasional flint cobbles (CIRIA grade not possible to determined). * At 2F3512RC only, from 1.70 – 5.0 m, CIRIA Grade not possible to determine. From 5.0 – 20 m, Possibly CIRIA Grade B2 Very weak medium density white with rare black specks CHALK.	3.25 – 4.30	3.20 – 4.30	2.50 – 20.00	3.50 – 20.00	3.00 – 6.45	0.30 – 6.45	1.70 – 20.00	0.60 – 3.25	0.90 – 2.30	0.60 – 4.70	0.60 – 1.50
End of Hole (m bgl)		4.30	4.30	20.00	20.00	6.45	6.45	20.00	3.25	2.30	4.70	1.50

No chainages are shown for 2F3512RC, 2F3513DS, 2F3514DS, 2F3515DS and 2F3537DS as they are no longer on the proposed pipeline development route. Their original locations are shown within **Table 3.2,** along Knowle Road and between approximately 530 m and 1320 m west of chainage 13600.
*Typically no CIRIA chalk grades attributable to White Chalk Subgroup on borehole logs due to drilling techniques involved (dynamic sampling and cable percussion drilling) except where listed; exceptions noted at 2F3504DS (1.20 – 1.35m bgl: CIRIA grade B4, underlain from 1.35 – 3m bgl by CIRIA grade B4 chalk) and at 2F3512RC (1.70 – 5.00m bgl: no CIRIA grade assigned due to poor recovery, then 5.00 – 20.00m bgl: potentially CIRIA grade B2).
[&] May include some River Terrace Deposits particularly near the River Wallington as they are difficult to distinguish.

Table 4.4: Summary of Encountered Ground Conditions in Section F Phase 3B/3C Exploratory Holes

Exploratory Hole ID:		3F3517DS	3F3519HP	3F3521HP	3F3523DR	3F3524DR	3F3601HP	3F3602HP	3F7509IT	3F7510IT	3F7512IT	3F7513IT	3W8553DS	3W8554DS	3W8556DS	3W8558SA	3W8559TP	3W8563TP	3W8567SA
Ground Level (m OD)		+47.46	+31.43	+11.25	+19.52	+21.51	+31.43	+20.52	+17.20	+18.14	+20.40	+18.47	+20.23	+22.86	+67.40	+36.99	+36.39	48.74	50.14
Chainage		11780	12415	13095	13490	13485	12155	13360	13470	13490	13500	13455	13565	13595	13890	14260	14540	14505	14525
Strata	Typical description	Depth range (m bgl)																	
Topsoil	Soft to firm locally stiff brown sandy gravelly CLAY.	0.0 – 0.30	0.0 – 0.25	0.0 – 0.25	-	0.0 – 0.35	0.0 – 0.15	0.0 – 0.30	0.0- 0.30	0.0- 0.30	0.0 – 0.30	-	-	-	0.0 – 0.35	0.0 – 0.30	0.0 – 0.30	0.0 – 0.30	0.0 – 0.30
Made Ground	Firm brown sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse chert, chalk and brick.	0.30 – 1.20	-	-	0.0 – 0.28	-	-	-	-	-	-	-	-	-	-	0.30 – 3.50	-	-	-
	Loose brown clayey SAND.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30 – 2.40
Head Deposits	Soft to firm locally stiff brown sandy, silty, gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of chert. Occasional cobbles.	-	0.25 – 0.35	0.25 – 1.20	0.28 – 6.25	0.35 – 1.55	0.15 – 1.20	0.30 – 1.00	0.30 – 2.50	0.30 – 2.50	0.30 - 0.80	0.0 – 1.10	0.0 – 1.40	0.0 – 1.45	-	-	0.30 – 3.10	0.30 – 4.00	-
London Clay Formation	Firm to stiff brown and grey sandy CLAY.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*3.10 – 4.00	-	2.40 – 8.00
Lambeth Group	Firm to stiff reddish yellowish brown gravelly sandy CLAY.	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35 – 5.45	3.50 – 5.60	-	-	-
	Medium dense brown clayey SAND.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.60 - 6.70	-	-	-
White Chalk Subgroup grade Dc/Dm,	Very weak to weak very low to medium density white and brown stained CHALK recovered as sandy silty GRAVEL or gravelly SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse chalk and flint. Occasional cobbles of chalk and lint.		0.35 – 1.10	-			-	-	-	-	0.80 – 2.50	1.10 – 2.50	1.40 – 6.45	1.45 – 6.45	-	6.70 – 10.00	-	-	-
White Chalk Subgroup CIRIA Grade unable to be determined **	Recovered as a combination of CHALK recovered as SILT / GRAVEL / COBBLES with frequent angular fine to coarse flint fragments.	1.20 – 2.34**			6.25 – 13.00**	1.55 – 15.70**													

Exploratory Hole ID:		3F3517DS	3F3519HP	3F3521HP	3F3523DR	3F3524DR	3F3601HP	3F3602HP	3F7509IT	3F7510IT	3F7512IT	3F7513IT	3W8553DS	3W8554DS	3W8556DS	3W8558SA	3W8559TP	3W8563TP	3W8567SA
Ground Level (m OD)		+47.46	+31.43	+11.25	+19.52	+21.51	+31.43	+20.52	+17.20	+18.14	+20.40	+18.47	+20.23	+22.86	+67.40	+36.99	+36.39	48.74	50.14
Chainage		11780	12415	13095	13490	13485	12155	13360	13470	13490	13500	13455	13565	13595	13890	14260	14540	14505	14525
Strata	Typical description	Depth range (m bgl)																	
White Chalk Subgroup (B2/3)	Fractured very weak medium density white CHALK with black flint. Occasional brown staining. Fossils.	-	-	-	-	15.70 – 19.38	-	-	-	-	-	-	-	-	-	-	-	-	-
White Chalk Subgroup (A3/4)	Fractured white medium dense CHALK with flint nodules, some brown staining.	-		-	13.00 – 14.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White Chalk Subgroup (A1/2)	Very weak medium to high density white CHALK with widely spaced flint nodules, fossils. At 3F3523DR, from 27.03m weak.				14.12 – 30.20	19.38 – 30.20	-	-	-	-	-	-	-	-	-	-	-	-	-
End of Hole (m bgl)		2.34	1.10	1.20	30.20	30.20	1.20	1.00	2.50	2.50	2.50	2.50	6.45	6.45	5.45	10.00	4.00	4.00	8.00

*SOCOTEC logs classify this as Head Deposits, reclassified here as London Clay.
** Where CIRIA grade has been described as 'Unable to be determined', 3F3517DS between 1.20 – 2.34 m bgl (+46.26 until +45.12 m OD) ; 3F3523DR between 6.25 – 6.75 m bgl (+13.27 until +12.77 m OD), 7.75 – 10.75 m bgl (+11.77 until +8.77 m OD), 12.25 – 13.00 m bgl (+7.27 until +6.52 m OD) ; at 3F3524DR between 1.55 – 8.60 m bgl (+19.96 until +12.91 m OD) between 9.20 – 10.40 m bgl (+12.31 until 11.11 m OD) and 12.20 – 15.70 m bgl (+9.31 until +5.81 m OD) due to poor core recovery and non-intact chalk core. On the borehole logs for 3F3517DS, 3F3523DR and 3F3524DR, it has been described by a "recovered as" description with a combination of 'CHALK recovered as SILT/GRAVEL/COBBLES' and 'Recovered as non-intact' followed by a chalk description similar to described in Phase 2 cable percussion and dynamic sampling boreholes completed in Phase 2 **Table 4.3** above.

4.2.2 Groundwater Levels

Groundwater monitoring took place in selected boreholes specified by SSP. Monitoring was carried out by SOCOTEC during and after the main fieldwork period. **Table 4.5** summarises the groundwater strikes, datalogger data and groundwater spot monitoring data collected at monitoring well locations (SOCOTEC, 2024).

Table 4.5: Summary of Groundwater Strikes and Spot Monitoring Records

Exploratory Hole	Response zone (m bgl)	Strike During Drilling – Depth and Elevation	Stratum Within Which Strike Was Recorded	Spot Monitoring – Depth and Elevation	Datalogger – Minimum/ Maximum Depth
3F3517DS	No Installation	Not encountered	N/A	N/A	N/A
3F3519HP					
3F3521HP					
3F3523DR	1.00 – 10.00			Dry / <9.52 m OD	
3F3524DR	1.40 – 10.00			Dry / <11.51 m OD	
3F3601HP	No Installation			N/A	
3F3602HP					
3F7509IT					
3F7510IT					
3F7512IT					
3F7513IT					
3W8553DS	1.00 – 6.45	Not encountered	N/A	Dry / <14.23 m OD	N/A
3W8554DS	1.00 – 6.45	01/05/2024 Damp at 6.45 m bgl/ 16.41 m OD	Chalk	Dry / < 16.86 m OD	
3W8556DS	No Installation	03/05/2024 Seepage at 1.20 m bgl/ 66.2 m OD	Lambeth Group	N/A	
3W8558SA	1.50 – 6.00	Not encountered	N/A	5.76 m bgl to Dry/ 31.23 to <30.99 m OD	
3W8559TP	No Installation			N/A	
3W8563TP					
3W8567SA	1.00 – 2.50			0.98 to 2.47 m bgl/	

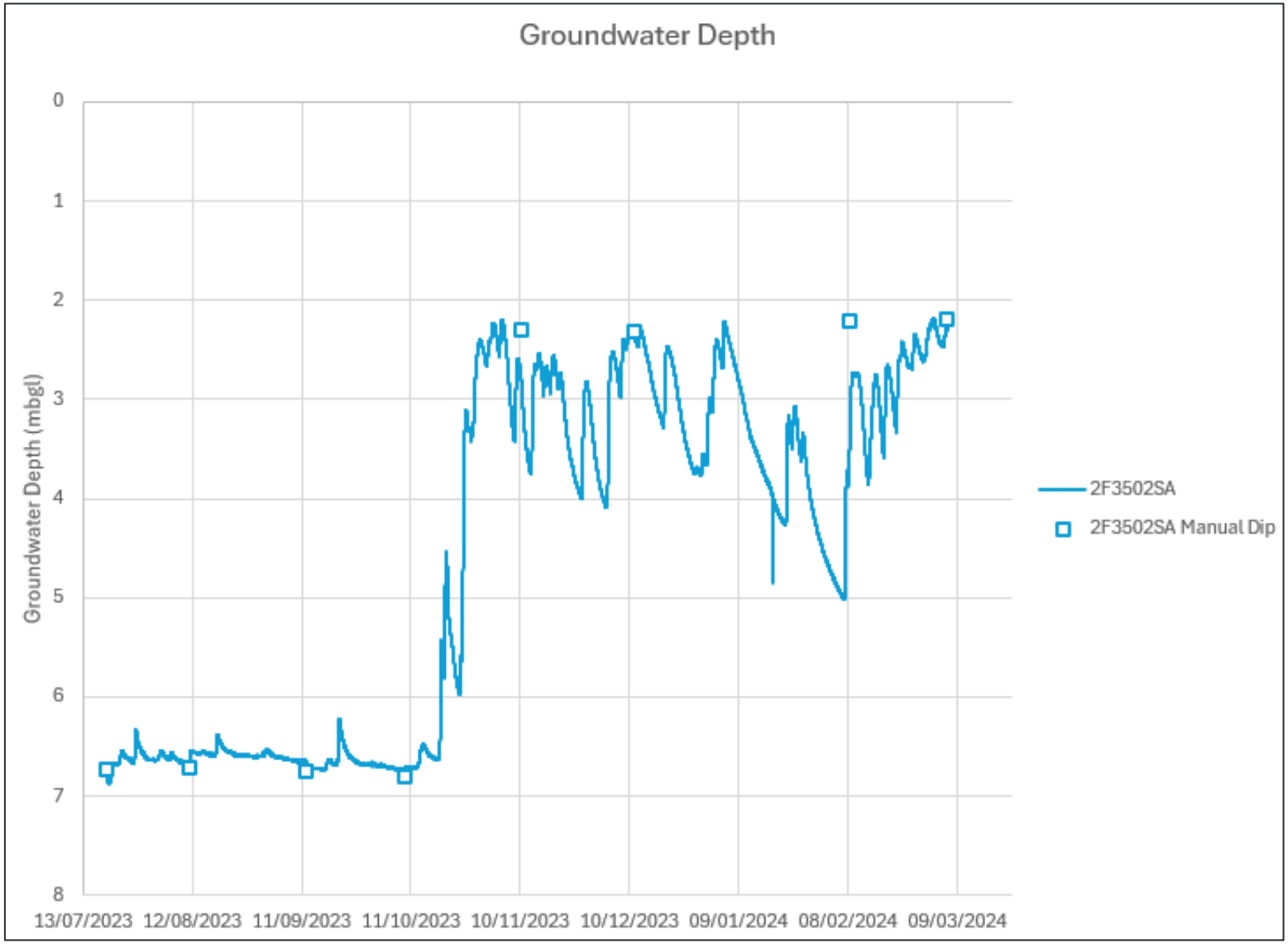
Exploratory Hole	Response zone (m bgl)	Strike During Drilling – Depth and Elevation	Stratum Within Which Strike Was Recorded	Spot Monitoring – Depth and Elevation	Datalogger – Minimum/ Maximum Depth
				49.16 to 47.67 m OD	
2F3500DS	1.0 – 2.5	Not encountered	N/A	Dry / < 53.62 m OD	N/A
2F3501DS	1.0 – 2.5			Dry / < 41.86 m OD	
2F3502SA	2.0 – 20.0	08/03/2023 Damp at 6.0 m bgl/ 3.12 m OD	Chalk	1.20 to 6.8 m bgl/ 7.92 to 2.32 m OD	2.17 to 6.88 m bgl 6.97 to 2.24 m OD
2F3503SA	2.0 – 20.0	15/03//2023 3.43 m bgl/ 5.09 m OD	Alluvium	0.93 to 5.81 m bgl/ 7.59 to 3.73 m OD	N/A
2F3504DS	1.0 – 6.0	Not encountered	N/A	Dry / <16.54 m OD	
2F3505DS	No Installation			No Installation	No Installation
2F3512RC	3.0 – 20.0	Not encountered		19.87 m bgl/ 21.73 m OD	N/A
2F3513DS	1.0 – 2.5	Not encountered		Dry / < 41.54 m OD	
2F3514DS	No Installation			No Installation	No Installation
2F3515DS	1.5 – 4.4			4.35 to 4.41 m bgl/ 37.6 to 37.54 m OD	N/A
2F3537DS	No Installation			No Installation	No Installation

At 2F3512RC, previous groundwater may not have all dissipated during drilling on 09/05/2023, so the first spot groundwater monitoring reading was 19.87 m on 23/05/2023 within the 20 m deep installation with all subsequent measurements noted as dry.

The ground conditions and groundwater results are mostly consistent with the anticipated ground conditions from the desk study and BGS boreholes. River Terrace Deposits is not definitively identified (though may be mixed with other superficial strata).

Graph 4.1 shows the groundwater levels for selected boreholes at trenchless crossings across the pipeline including 2F3502SA (shown in blue), near the River Wallington, monitored by a downhole datalogger at 5-minute intervals. The datalogger was originally placed 1 m above the base of the slotted pipe. It shows groundwater varying between approximately 6.6 to 6.8 m bgl from July through to October 2023 which then rapidly rises over a 2-week period in October 2023 to approximately 2.2 m bgl. It then fluctuates between 2.2 and 4 m bgl until March 2024. **Graph 4.1** is an extract received based on AGS data (SSP, 2024a) provided by SOCOTEC. Further interpretation on the groundwater levels is not the focus of this GIR.

Graph 4.1 Datalogger Groundwater Levels for 2F3502SA



4.2.3 Visual and/or Olfactory Contamination

Visual and olfactory evidence of contamination was not identified in the exploratory hole logs within Section F. However, a significant thickness of Made Ground was encountered within 3W8558SA (3.5 m thick) and 3W8567SA, (2.4 m thick) comparative to other locations along the Section F route, though it should be noted that within 3W8567SA it is described as possible Made Ground. Made Ground encountered within 3W8558SA is described as gravelly clay, with gravels comprised chalk and flint with rare brick fragments. In 3W8567SA, it is described as clayey, silty sand.

In-situ PID testing results show VOC readings generally below the instrument detection limit of 0.1 ppm. The maximum recorded concentration was 8.7 ppm in the topsoil/Made Ground sample taken from 2F3500DS.

5 Generic Quantitative Risk Assessment (GQRA)

This report section assesses the soil, soil leachate, groundwater and gas data collected at the Phase 2 and Phase 3B/3C GI locations within Section F DoL, which includes the AGP site, IPS-F.

In accordance with the 'Land Contamination Risk Management' (LCRM) guidance (Environment Agency, 2023a), the results of the geo-environmental laboratory testing undertaken on the samples of soil and groundwater recovered during the 2023 Phase 2 and 2024 Phase 3B/3C SOCOTEC GIs have been compared to current published generic assessment criteria (GAC), to identify potential hazards to the plausible receptors. The 75 No. soil samples included 6 No. samples of Made Ground, 13 No. samples of topsoil and 56 No. of natural ground (Alluvium, Head Deposits, Chalk, Lambeth Group, London Clay). Of these samples, 72 No. soil samples were subject to solid soil testing.

5.1 Soil Results

5.1.1 Assessment of Potential Risk to Human Health Receptors

There are no recorded exceedances of the human health GAC (commercial land use) in the 72 No. soil samples chemically tested. Details of the GAC used for screening are provided in **Appendix G**.

5.1.2 Notable Soil Contaminant Concentrations

GAC are not available for all determinands analysed. Samples collected during the GI show there were no concentrations that appeared to be elevated compared to other chemical results recorded. There was no identified asbestos in soil samples tested.

5.1.3 Soil Sample Deviations

Soil sample deviations were recorded for samples and analytes stated in **Appendix C.** Deviations arose due to the acceptable (holding) time between the sampling date and laboratory analysis being exceeded, headspace presence in the sample, sample matrix interferences, and samples failing to wholly meet the laboratory Quality Management System (QMS) requirements. Further details of the soil sample deviations are provided in **Appendix C**.

5.2 Soil Leachate and Groundwater Results

5.2.1 Comparison of Soil Leachate Results Against GAC

14 No. soil leachate (2:1 ratio) analysis were requested from soil samples obtained during the Phase 2 GI, however only one result has been reported from 2F3503SA at 0.5 m bgl (Head Deposits). Sampling from the Phase 3B/3C GI included 10 No. soil leachate (2:1) on 2 No. samples of Head Deposits, 1 No. sample of Topsoil, 1 No. sample of Made Ground, 2 No. sample of London Clay, 2 No. samples of Chalk and 1 No. sample of Lambeth Group collected during the Phase 3B/3C GI.

Soil leachate concentrations have been compared to the Drinking Water Inspectorate Drinking Water Standard (DWS) guidance (Drinking Water Inspectorate, 2025) and the withdrawn Water Supply (Water Quality) Regulations 1989 (WQS) for petroleum hydrocarbons. Only soil leachate sample (2F3503SA 0.5 m) and three groundwater samples (2F3502SA 12/09/23; 2F3503SA 19/07/23 and 12/09/23) collected from GI locations in a 250 m proximity to surface watercourses have been compared against the Freshwater Environmental Quality Standards (EQS). Concentrations of Total Ammonia as nitrogen have been compared to the Water Framework Directive (WFD) criteria (Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015).

Further details on the selection of water assessment criteria protective of human health and aquatic ecosystems (controlled waters) is provided in **Appendix G**.

The exceedances of the selected GAC are shown in **Table 5.1** and **Table 5.2**.

Table 5.1: Soil Leachate Sample Exceedances of DWS and withdrawn TPH Water Supply (water quality) Regulations 1989

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	GAC (µg/l)
2F3503SA	0.5	Alluvium	TPH (C_6-C_{40})	**120**	10
			Phenol	**1.9**	0.5
3W8556DS	1.7	Lambeth Group	TPH aromatic (C_{21}-C_{35})	**10**	10
			TPH total aromatic	**30**	
			Sulphate (SO_4)	**316,000**	250,000
3W8553DS	0.5	Head Deposits	TPH aliphatic (C_8-C_{40})	**130**	10
			TPH aromatic (C_8-C_{40})	**110**	
	1.5	Chalk	TPH aliphatic (C_8-C_{40})	**120**	10
			TPH aromatic (C_8-C_{40})	**240**	
3W8563TP	1.0	Head Deposits	TPH aromatic (C_{21}-C_{35})	**70**	10
			TPH aromatic (C_{35}-C_{44})	**20**	
3W8558SA	0.5	Made Ground	Phenol	**11**	0.5
			TPH aliphatic (C_8-C_{40})	**130**	10
			TPH aromatic (C_8-C_{40})	**150**	
	3.8	Lambeth Group	Phenol	**58**	0.5
			TPH aliphatic (C_8-C_{40})	**20**	10
			TPH aromatic (C_8-C_{40})	**20**	

Table 5.2: Soil Leachate Sample Exceedances of the Freshwater EQS (Annual Average)

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	GAC (µg/l)
2F3503SA	0.5	Alluvium	Chromium VI	**7**	3.4
			Copper	**3**	1

Leachate results from 3W8558SA at 1.30 m bgl showed an outlier concentration of naphthalene at 43.2 µg/l which deviates from the general concentration range of between 0.01 µg/l and 6.21 µg/l in other samples tested. Naphthalene does not have a GAC and the source of the naphthalene at this location is unconfirmed.

Soil-derived leachate sample deviations and potential contaminants for which the laboratory method detection limit (MDL) exceeded the corresponding GAC are presented in **Appendix C**. It is noted that testing with an MDL lower than the GACs for the PAHs listed is typically not offered by standard commercial laboratories. For all determinands analysed, but not listed in **Appendix C**, the MDLs were below the relevant GAC.

5.2.2 Comparisons of Groundwater Results Against GAC

Groundwater sampling was carried out on four exploratory hole locations from the Phase 2 and Phase 3B/3C investigation totalling 7 No. samples collected and analysed. Groundwater concentrations were screened against the same GAC used for soil leachate: DWS, WQS, EQS and WFD. Exceedances above the selected GAC are shown in **Table 5.3** and **Table 5.4.**

Table 5.3: Groundwater Exceedances of DWS and withdrawn TPH Water Supply (water quality) Regulations 1989

BH ID	Sampling Date	Determinand	Concentration (µg/l)	GAC (µg/l)
2F3502SA	12 September 2023	TPH (C_{10}-C_{40})	**20**	10
2F3503SA	12 September 2023	TPH (C_{10}-C_{40})	**10 (equals)**	10
3W8558SA	14 May 2024	TPH aliphatic (C_8-C_{40})	**230**	10
3W8567SA	14 May 2024	TPH aliphatic (C_{21}-C_{35})	**470**	10
		TPH aromatic (C_{10}-C_{44})	**1,680**	
		Chloride	**562,000**	250,000
		Sulphate (SO_4)	**280,000**	250,000
		Selenium	**23**	10

Table 5.4: Groundwater Exceedances of the Freshwater EQS (Annual Average)

BH ID	Sampling Date	Determinand	Concentration (µg/l)	GAC (µg/l)
2F3502SA	19 July 2023	Zinc	**12**	10.9
	12 September 2023		**13**	10.9

Groundwater sample deviations and potential contaminants for which the laboratory MDL exceeded the corresponding GAC are presented in **Appendix C**. It is noted that testing with an MDL lower than the GAC for the PAHs listed is typically not offered by standard commercial laboratories. For all determinands analysed, but not listed in **Appendix C**, the MDLs were below the relevant GAC.

Further details on the selection of water assessment criteria protective of human health and aquatic ecosystems (controlled waters) is provided in **Appendix G**.

5.3 Excavated Materials (Waste) Management

5.3.1 Hazardous Properties

Soil analytical results for the 30 No. soil samples have been screened from the Phase 2 GI and 42 No. screened from the Phase 3B/3C GI for hazardous properties as identified in Technical Guidance WM3 - Waste Classification - Guidance on the Classification and Assessment of Waste First Edition Version 1.2 (Environment Agency, 2021). This screen was carried out using Hazwasteonline™ (HazWasteOnline, 2023) (HazWasteOnline, 2024). The results are provided in **Appendix E.**

None of the soil samples listed were identified to possess hazardous properties and were classified as non-hazardous for waste disposal purposes.

5.3.2 Waste Acceptance Criteria (WAC)

WAC testing was completed in accordance with BSEN 12457/2 on 47 No. samples comprising 10 No. of topsoil, 6 No. of Made Ground and 31 No. of natural soils retrieved from Phase 2 and Phase 3B/3C Section F GI locations. Results were screened against landfill WAC limit values for an Inert Landfill.

All samples met the criteria for disposal to Inert Landfill, with the exception of one sample of Alluvium taken at 0.5 m bgl in 2F3501DS. An exceedance in fluoride concentration was detected in this sample (12 mg/kg vs limit of 10 mg/kg).

It is important to note that specific inert landfills may have stricter and/or additional limits imposed for waste soil disposal, therefore the above assessment should be treated as indicative only. Suitability of material for disposal must be discussed with the landfill operator in advance. It is likely that additional soil sampling, with chemical and WAC testing, will be required beyond this preliminary GI to inform on suitable disposal routes. Topsoil is not normally accepted at landfill due to its high organic content.

5.4 Ground Gas Monitoring

Ground gas monitoring results are tabulated in SOCOTEC's Ground Investigation Report (SOCOTEC, 2023) (SOCOTEC, 2024). Eight gas monitoring rounds were completed between 20th April 2023 and 10th November 2023 within Phase 2 GI exploratory locations. Additional monitoring was carried out on the 2nd February 2024 and 7th March 2024 from 2F3502SA and 2F3503SA.

The Phase 3B/3C monitoring was undertaken across five rounds between the 2nd of April 2024 and 17th July 2024. Peak concentrations (minimum for oxygen) recorded during each monitoring round are presented in the summary tables in **Appendix F**.

It is noted that 2F3502SA and 2F3503SA had less than 1.5 m depth between the top of the slotted standpipe and the water level on one occasion each, reducing the volume of ground gas available for analysis. In this instance, the reliability of the recorded ground gas concentrations may be reduced due to a smaller volume of accumulated gas.

The response zone in 2F3503SA was fully flooded on one occasion (10th November 2023). Additionally the response zone within 3W567SA was also flooded on three occasions, (1st, 14th and 28th May 2024). The data from these monitoring rounds has been therefore considered as indicative and may not be fully representative of the ground gas regime beneath the site due to the following "*The response zone of the gas monitoring standpipe should be wholly or partly above groundwater level to provide valid data... [and] gas standpipes with flooded response zones might exhibit measurements of elevated methane or carbon dioxide… due to dissolved gases or the presence of biodegradable material in the groundwater*"(BSI, 2015a).

Peak concentrations (minimum for oxygen) from all rounds are presented in the summary **Table 5.5**.

The ground gas data recorded at 2F3502SA and 2F3503SA should be considered at the preconstruction phase in terms of risks to groundworkers as temporary deep excavations are planned as reception pits for the trenchless crossing of the River Wallington which could potentially expose ground workers to pockets of elevated concentrations of ground gas.

5.4.1 Gas Thresholds

Peak concentrations recorded in monitoring wells have been compared to the following gas threshold concentrations:

- BSI (The British Standards Institution) Health and Safety in tunnelling in the construction industry - Code of Practice [BS 6164:2019] (BSI, 2019).
- EH40/2005 (fourth edition 2020) Workplace Exposure Limits (WELs) (HSE, 2020).

Exceedances of these thresholds are shown in **Table 5.6**.

5.4.2 Ground Gas Assessment

Given that the AGP site, IPS-F location is expected to contain building structures, a ground gas risk assessment is required to determine the risks to new buildings. A Gas Screening Value (GSV) has been calculated according to BS8485:2015+A1:2019 (BSI, 2015a):

GSV (litres of gas / hour) = max borehole flow rate (l/h) x max gas concentration of CH_4 or CO_2 (%).

Using the recorded peak CO_2 concentration of 5.7% vol (2F3504DS) and worst-case flow rate of 0.2 l/h at the well along the boundary with historic Albany Farm Landfill (PSC 5), the GSV comes to 0.011 l/h, which is characterised as Characteristic Situation (CS) 1. No gas protective measures are required for CS1 sites. The guidance (BSI, 2015a) also notes that for CS1 typically methane should be <1% and/or carbon dioxide <5%, otherwise consideration should be made to increase classification to CS2. Current data show all recorded gas concentrations below these thresholds, hence CS1 classification is considered suitable. It should be noted all gas monitoring rounds were carried out during periods of high pressure.

Table 5.5: Ground Gas Monitoring Results Summary

BH ID and Area	Response Zone (m bgl) and Stratum	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
		CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
2F3500DS Former sand pit (PSC 22)	1.00 – 2.50 Made Ground into Head Deposits	0.1	3.9	15.8	2.0	1.0	0.7	<0.1
2F3501DS Former chalk pit (PSC 24)	1.00 – 2.50 Head Deposits	<0.1	1.8	18.3	2.0	1.0	0.4	0.1
2F3502SA Open field (agricultural). Trenchless crossing – River Wallington	2.00 – 20.00 Head Deposits into Chalk	0.2	2.4	14.6	2.0	9.0	9.2	0.1
2F3503SA Open field (agricultural). Trenchless crossing – River Wallington	2.00 – 20.00 Alluvium into Chalk	0.2	2.9	14.8	1.0	1.0	0.5	0.1
2F3504DS Land northeast of Albany Farm Historic Landfill (PSC 5)	1.00 – 6.00 Chalk	0.1	5.7	14.9	3.0	1.0	0.3	0.2
2F3512RC Trenchless crossing – Knowle Road and Wickham Road (A32)	3.00 – 20.00 Chalk	0.1	2.8	16.9	5.0	1.0	0.7	0.1
2F3513DS* Land south of Heytesbury Farm Historic Landfill (PSC 11)	1.00 – 2.50 Chalk	0.1	4.1	15.3	3.0	1.0	0.7	0.3
2F3515DS* Land south of an old chalk, gravel and clay pit (PSC 12)	1.50 – 4.40 Chalk	<0.1	5.3	14.6	3.0	1.0	1.3	<0.1

BH ID and Area	Response Zone (m bgl) and Stratum	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
		CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
3F3523DR Located within footprint of IPS-F, c.70 m northeast of PSC 5	1.00 – 10.00 Head Deposits into Chalk	<0.1	2.6	16.3	0	<10	0	0
3F3524DR Located within footprint of IPS-F, c.40 m northeast of PSC 5	1.40 – 10.50 Chalk	<0.1	4.7	16.0	0	<10	1.0	-0.3
3W8553DS Located c. 15 m southwest of Pit - Chalk (PSC 25)	1.00 – 6.00 Chalk	<0.1	4.1	14.5	0	<10	1.0	0
3W8554DS Located c. 5 m west of Pit - Chalk (PSC 25)	1.00 – 6.00 Chalk	<0.1	2.5	15.4	0	<10	1.0	0
3W8558SA Located within an open field within the eastern footprint of the Former Crockerhill Brickworks (PSC 1)	1.00 – 6.00 Made Ground	<0.1	3.7	7.8	10	<10	1.0	0.1
3W8567SA Open field within footprint of a Former Clay Pit (PSC 2)	1.00 – 2.50 Made Ground	<0.1	2.9	15.9	10	<10	1.0	-6.1

CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume
*Boreholes are no longer present within the DoL and as such have been excluded from further assessment.

Table 5.6: Exceedances of Gas Thresholds

Area		CH_4	CO_2	O_2	CO	H_2S	VOC
Location / Substance (threshold)		**4.4% (LEL) to 17% (UEL)**	**0.5% (LTL) 1.5% (STL)**	**<19% by volume**	**20 ppm (LTL) 100 ppm (STL)**	**5 ppm (LTL) 10 ppm (STL)**	**Approx. 1.0%[1] (lower explosive limit)[1]**
Pit - Sand (PSC 22)	**2F3500DS**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Pit - Chalk (PSC 24)	**2F3501DS**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Open field (agricultural). Trenchless crossing – River Wallington	**2F3502SA[2]**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
	2F3503SA[2]	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Land northeast of Albany Farm Historic Landfill (PSC 5)	**2F3504DS[2]**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Trenchless crossing – Knowle Road and Wickham Road (A32)	**2F3512RC[2]**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Located within footprint of IPS-F	**3F3523DR[2]**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
	3F3524DR[2]	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Former Chalk Pit (PSC 25)	**3W8553DS[2]**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
	3W8554DS[2]	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Works - Crockerhill Brickworks (PSC 1)	**3W8558SA**	N/A	**Yes**	**Yes**	N/A	N/A	N/A
Former Clay Pit (PSC 2)	**3W8567SA**	N/A	**Yes**	**Yes**	N/A	N/A	N/A

LEL – Lower explosive limit; UEL – Upper explosive limit; STL – Short Term Workspace Exposure Limit (15-minute reference period); LTL – Long Term Workspace Exposure Limit (8-hour reference period)
[1] – dependant on constituents
[2] – response zone in the chalk aquifer
N/A – not applicable

6 Land Contamination Risk Assessment Model

6.1 Approach and Outline Conceptual Site Model

The land contamination risk assessment presented in this section is a revised risk assessment and has been undertaken in accordance with the procedure outlined in LCRM (Environment Agency, 2023). A summary of the guidance for the assessment of land contamination and the approach developed and adopted by SSP is presented in **Appendix G**. This revised risk assessment uses information collated as part of the Phase 2 and Phase 3B/3C GI and builds on the existing preliminary risk assessment completed as part of the desk study. The revised risk assessment will then allow for recommendations to be made based on the identification and assessment of potential contaminant linkages identified.

6.2 Potential Sources of Contamination

The exploratory hole locations, discussed herein, were drilled primarily to investigate the moderate / low and higher potential risks to human health and controlled waters from identified PSCs either within the DoL or within 50 m radius. A summary of geo-environmental desk study information for these locations is presented in **Tables A1 and A2 (Appendix A)**. The PSCs and GI data is discussed below:

6.2.1 Locations where PSCs were Identified/Targeted

Works – Crockerhill Former Brickworks (PSC 1) (within the DoL)

Exploratory Hole Location 3W8558SA was completed at the intersection of the historical site of the Crockerhill Brickworks and Section F DoL to a maximum depth of 10.00 m bgl.

- Topsoil was encountered to 0.30 m bgl, underlain by Made Ground to 3.50 m bgl, described as gravelly clay with gravels comprising of chalk, flint and rare brick fragments. Beneath the Made Ground, Lambeth Group clays were present to 5.60 m bgl, with Lambeth Group sand present to 6.70 m bgl. Underlying the Lambeth Group is the White Chalk Subgroup.
- Soil chemical analysis shows no exceedances of the commercial land use GAC nor any detection of asbestos. Soil leachate (2:1) analysis were carried out on two samples and yielded four exceedances of the withdrawn TPH WQS, and DWS exceedances of phenol. One groundwater sample was collected during monitoring and concentrations exceeded GAC for TPHs (withdrawn WQS).
- Ground gas monitoring data for 3W8558SA recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short and long-term WELs. Low oxygen levels, 7.8%v/v, were also encountered within monitoring at this location.

Albany Farm Historical Landfill (PSC 5) adjacent to IPS-F (adjacent to DoL)

Phase 2 exploratory hole locations 2F3504DS and 2F3505DS were completed adjacent to Albany Farm Historical Landfill (PSC 5) to a maximum depth of 6.45 m bgl.

- Made Ground was not encountered at these locations. Superficial deposits (Head) were encountered below Topsoil only in 2F3504DS. All GI locations were underlain by the White Chalk Subgroup. Groundwater was not encountered at these GI locations during drilling.
- Several exploratory boreholes were advanced during the Phase 3B/3C GI to investigate the ground conditions for the proposed AGP location of IPS-F (3F7509IT, 3F7510IT, 3F7512IT, 3F7513IT, 3F3523DR and 3F3524DR); all of which are located within 100 m northeast of PSC 5. These exploratory holes were advanced to a maximum depth of 30.20 m bgl. Made Ground was only encountered within 3F3523DR to a depth of 0.28 m bgl, whilst Topsoil was encountered to a maximum depth of 0.35 m bgl within 3F3524DR, 3F7509IT, 3F7510IT and 3F7512IT. Below the Topsoil/Made Ground, Head Deposits were present to a maximum depth of 6.25 m bgl. 3F7513IT was the only location to encounter Head Deposits from surface level. Head Deposits were underlain by the White Chalk Subgroup. Groundwater was not encountered at these GI locations during drilling.

- Soil chemical analysis shows no exceedances of the commercial land use GAC nor any detection of asbestos in Made Ground. Phase 2 results of the soil leachate (2:1) samples have not been provided by the laboratory due to reasons detailed within Section 5.2.1. Phase 3 GI did not specifically target the historical landfill which is recorded at least 40 m from the GI locations, and as such soil leachate testing was not requested. In addition, groundwater sampling was not carried out due to 3F523DR and 3F524DR being dry during monitoring rounds. The response zones within these boreholes were within Head Deposits and Chalk, suggesting shallow groundwater is unlikely to be present beneath the IPS-F site and, therefore, unlikely to be impacted by leachable contaminants within shallow soil.
- Ground gas monitoring data for 2F3504DS, 3F3523DR and 3F3524DR recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs. The GSV for IPS-F location indicates CS1. Given the boreholes are drilled into chalk, there is potential that the small volumes of carbon dioxide may be generated naturally through dissolution over time, but this is unlikely to constitute a credible source.

Potentially Infilled Ground – Pits - Sand (PSCs 22 and 24) (within 50 m of DoL)

Exploratory hole locations 2F3500DS and 2F3501DS respectively were completed at the location of a Pit-Sand (within 50 m buffer zone of PSC 22) and a former Chalk Pit (within 50 m buffer zone PSC 24) to a maximum depth of 4.30 m bgl.

- Made Ground was only encountered in 2F3500DS (PSC 22), to 1.5 m bgl, containing brick, timber fibres, and fragments of metal and rubber. Superficial deposits (Head and River Terrace Deposits) were encountered below Topsoil in 2F3501DS. Superficial deposits in both locations were underlain by the White Chalk Subgroup. Groundwater was not encountered in either location during drilling.
- Soil chemical analysis shows no exceedances of the commercial land use GAC nor any detection of asbestos. The requested soil leachate (2:1) analysis has not been performed by the laboratory due to a system error, hence no results are available to assess potential risks associated with contaminant transfer from soils to groundwater. Groundwater sampling was not carried out due to the locations being dry during monitoring rounds. Ground gas monitoring data collected from 2F3500DS and 2F35001DS show that all methane concentrations were below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs.

Potentially Infilled Land – Pit - Chalk (PSC 25) (within the DoL)

Exploratory hole locations 3W8553DS and 3W8554DS respectively were completed adjacent to the location of a former Chalk Pit to a maximum depth of 6.45 m bgl.

- Made Ground was not encountered in either location. Superficial deposits (Head Deposits) were encountered from ground level in all GI locations to a maximum depth of 1.45 m bgl and were underlain by the White Chalk Subgroup. Groundwater was not encountered in either location during drilling.
- Soil chemical analysis shows no exceedances of the commercial land use GAC nor any detection of asbestos. Soil leachate (2:1) analysis showed TPH exceedances of the adopted GAC in the head deposits and white chalk at 3W8553DS. Groundwater samples were not collected due to wells being dry during monitoring rounds. Ground gas monitoring data collected from 3W8553DS and 3W5554DS show that all methane concentrations were below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs.

Potentially Infilled Land – Pit - Clay (PSC 2) (within the DoL)

Exploratory Hole Locations 3W8559TP, 3W8563TP and 3W8567SA were completed at the location of a former clay pit within the DoL (PSC 2) to a maximum depth of 8.00 m bgl.

- Topsoil was encountered in all GI locations to a maximum depth of 0.30 m bgl. Possible Made Ground was only encountered within 3W8567SA to a depth of 2.40 m bgl (2.10 m thick layer) described as clayey, silty coarse sand and beneath the Made Ground, within 3W8567SA, London Clay was present to 8.00 m bgl. Underlying the Topsoil, in 3W8559TP and 3W8563TP, superficial Head Deposits were present to a maximum depth of 3.10 m bgl and were underlain by London Clay.

- Soil chemical analysis shows no exceedances of the commercial land use GAC nor any detection of asbestos. Soil leachate (2:1) analysis undertaken on sample 3W8563TP (1.0m m) yielded TPH concentrations exceeding the GAC. Two groundwater samples were obtained from 3W8567SA. Two exceedances of the withdrawn TPH criteria were encountered as well as DWS exceedances of chloride, selenium and sulphate. Ground gas monitoring data for 3W8567SA recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs.

6.2.2 Locations where Unexpected Contamination was identified

Trenchless Crossing Location – River Wallington

Geo-environmental testing was also undertaken at the trenchless crossing points southeast and northwest of the River Wallington (2F3502SA and 2F3503SA respectively) which did not target any specific PSCs.

- There were no concentrations of PCOCs exceeding screening criteria in soils at these locations. Soil leachate analysis was undertaken at 2F3503SA, 0.5 m bgl (Head deposits); this reported four concentrations exceeding GAC; chromium (VI), copper, TPH and phenol. Although, the borehole was not drilled to target a PSC and there was no indication of contamination on the borehole log, these results suggest there to be some leachable contamination present with the likely source not known.
- Four groundwater samples were taken from the River Wallington trenchless crossing GI locations. One exceedance of the adopted GAC protective of human health was found for TPH, and two exceedances of the adopted GAC protective of controlled waters were detected for zinc in the groundwater of 2F3502SA. The source of TPH in groundwater is unconfirmed. If during construction dewatering is required, PCOCs in groundwater will need to be considered prior to disposal.

6.3 Identification of Potential Pathways

During and post construction in Section F and IPS-F, the following potential pathways are considered:

- Dermal contact, ingestion and inhalation of dusts, fibres, gases and vapours.
- Gas and vapour migration and accumulation in future buildings and buried services (IPS-F), voids and below ground chambers / receptor pits.
- Surface water runoff from stockpiles to surface watercourses and migration through groundwater.
- Leaching through unsaturated soil to underlying groundwater.
- Pathway for migration of contamination through proposed pipe bedding.

6.4 Identification of Potential Receptors

Based on the proposed construction works, end use and surrounding land uses, the following potential receptors previously identified in the preliminary risk assessment have been further assessed following Phase 2 and Phase 3B/3C GI data:

- Construction workers.
- Future site users (workers and maintenance workers).
- Adjacent land users (applicable to PSCs within DoL only).
- On Site existing and future property (buildings and buried services within IPS-F).
- Surface water (land drains, River Wallington) (applicable to PSCs within the DoL only).
- Groundwater (superficial Head deposits encountered in both Phase 2 and Phase 3B/3C exploratory locations are a Secondary Undifferentiated Aquifer; London Clay Formation is an unproductive stratum, Lambeth Group is a Secondary A Aquifer, chalk bedrock across Site is classified as a Principal Aquifer).
- Ecological receptors (applicable to PSCs within the DoL only).

The proposed pipeline has not been included as a potential receptor to contaminants that could be present in soils or groundwaters. The pipe material selection is to be made during design to prevent impact from existing PSCs.

6.5 Risk Assessment

An evaluation of the above pollutant linkages has been used to undertake a qualitative risk assessment. The method of risk evaluation adopted is consistent with LCRM (Environment Agency, 2023a) and is being carried out in accordance with CIRIA C552 (CIRIA, 2001) using probability, consequence and risk classifications as shown in **Appendix I.**

Preliminary risk estimation is based on the evaluation of both desk study information collated for the DoL route together with the Phase 2 and Phase 3B/3C GI data. For each of the identified areas with a high potential for the presence of contamination (within the search radius), a preliminary risk assessment has been completed and presented in **Tables H1-H7 (Appendix H)**. Definitions for probability and consequence are in Table A and Table B of **Appendix I** (respectively).

Table 6.1 summarises the risk classification (without mitigation measures) for the investigated PSCs and exploratory hole locations where unexpected contamination was encountered. The risk classicisation ratings are taken from the risk assessment tables (**Appendix H**). Where more than one pathway has been evaluated, the pathway with the highest risk rating is presented in **Table 6.1**. For example, the risk rating for construction, maintenance workers and future site users is Moderate/Low for an inhalation pathway and is shown in **Table 6.1.** The dermal contact and ingestion pathway risk rating is low as presented in **Appendix H** and therefore not presented in **Table 6.1** but expanded upon further in **Appendix H**.

Table 6.1: Summary of Risk Classification for Construction and Maintenance Activities for Areas investigated in Section F

PSC No. GI Location/Location Description	Contaminants Encountered	Risk Classification (without mitigation measures) for Potential Receptors					
		Construction, maintenance workers and future site users	Adjacent Land Users	On Site existing and future property	Surface Water	Groundwater	Ecology
IPS-F Location							
2F3504SA and **2F3505SA** along the proposed IPS-F western boundary, adjacent to the former inert landfill (PSC 5 - Landfill Albany Farm Landfill) within 50 m of DoL **3F3523DR** and **3F3524DR** within the proposed IPS-F area (currently open fields)	Soil sampling found no soil GAC exceedances. No soil leachate analysis completed. No groundwater samples collected (dry wells). CO_2 exceedances for short and long-term WELs in all GI locations monitored. Depleted oxygen concentrations. Gas risk assessment yielded a CS1 classification.	Moderate / Low *(inhalation pathway)*	Low	Low	Low	Low	Low
Section F DoL							
3W8558SA PSC 1 Works –Crockerhill Former Brickworks. (eastern part crosses DoL).	Leachate sampling exceeded GAC for TPH and phenol. One groundwater sampling rounded yielded TPH exceedance of GAC. Ground gas, monitoring data for 3W8558SA recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short and long-term WELs.	Moderate / Low	Moderate / Low	Low	Low	Moderate / Low	Low
3W8567SA, 3W8559TP and 3W8563TP	Soil sampling found no soil GAC exceedances.	Moderate / Low	Moderate / Low	Low	Low	Low	Low

PSC No. GI Location/Location Description	Contaminants Encountered	Risk Classification (without mitigation measures) for Potential Receptors					
		Construction, maintenance workers and future site users	Adjacent Land Users	On Site existing and future property	Surface Water	Groundwater	Ecology
PSC 2 Former Clay Pit (located within the DoL). Located within agricultural field, advanced to target PSC.	Soil leachate exceedances of TPH GAC. Exceedances of groundwater GAC during one out of the two groundwater sampling rounds (3W8567SA) TPH, chloride, selenium and sulphate. Ground gas monitoring data for 3W8567SA recorded methane concentrations below the LEL, carbon dioxide levels exceeded both short- and long-term WELs. Depleted oxygen concentration recorded.						
2F3500DS PSC 22 - Pit-Sand, land north of Boarhunt Road	Made Ground (brick, timber fibres, fragments of metal and rubber.) No soil exceedances. No soil leachate testing. No groundwater present during monitoring. Ground gas monitoring data collected from 2F3500DS show methane concentrations below LEL. Carbon dioxide levels exceeded both short- and long-term WELs.	Moderate / Low *(inhalation pathway)*	Low	Very Low	Low	Moderate / Low	Low
2F3501DS Chalk pit (PSC 24), land north of Nine Elms Lane. **3W8553DS** and **3W8554DS** Chalk pit (PSC 25), advanced just west of PSC.	No soil exceedances. TPH concentrations exceeded GAC in soil leachate samples (3W8553DS). No groundwater present during monitoring. Ground gas monitoring data collected from 2F3501DS, 3W8553DS and	Moderate / Low *(inhalation pathway)*	Low	Very Low	Low	Moderate / Low	Low

PSC No. GI Location/Location Description	Contaminants Encountered	Risk Classification (without mitigation measures) for Potential Receptors					
		Construction, maintenance workers and future site users	Adjacent Land Users	On Site existing and future property	Surface Water	Groundwater	Ecology
	3W5554DS show methane concentrations were below the LEL. Cabon dioxide levels exceeded both short- and long-term WELs.						
2F3502SA and **2F3503SA** River Wallington Trenchless Crossing	Leachate analysis was only undertaken at 2F3503SA, 0.5 m bgl (Head deposits) and recorded exceedances of chromium (VI), copper, TPH and phenol. Four groundwater samples were taken from the River Wallington trenchless crossing GI locations. One exceedance of the TPH WQS was found for TPH, and two exceedances of EQS GAC were detected for zinc in the groundwater of 2F3502SA. Carbon dioxide exceeded both short and long term WELs.	Moderate / Low	Moderate / Low	Moderate / Low *(inhalation pathway)*	Moderate / Low	Moderate / Low	Low

6.6 Summary

The Phase 2 GI across Section F focused on PSCs; Albany Farm Historical Landfill (PSC 5), and two former potentially infilled pits (PSCs 22 and 24). Due to route changes the Phase 3B/3C GI across Section F focused on a further three PSCs; Works – Former Brickworks (PSC 1), Pit - Clay (PSC 2) and a Pit - Chalk (PSC 25). PSCs 1, 2 and 25 cross into the current Section F DoL, whilst PSCs 5, 22 and 24 are located within the 50 m of the DoL.

Two identified PSCs within the DoL (PSC 6 and PSC 15), have not been investigated due to land access reasons beyond SSP's control, and are recommended to be investigated in the future as they are present within the current Section F DoL.

Based on the GI findings the following risks were determined at the locations investigated in Section F DoL:

- A Moderate / Low risk classification has been identified for impact to construction, maintenance and future site users (groundworkers) via direct contact, ingestion and inhalation pathways at GI locations investigating PSC 1 (Works – Crockerhill former brickworks), PSC 2 (Pit -Clay) and the proposed locations of the trenchless crossing reception shafts at the River Wallington, based on the findings of COCs in groundwater and carbon dioxide exceedances of short and long-term WEL and depleted oxygen levels.
- A Moderate / Low risk classification has been identified for impact to construction, maintenance and future site users (groundworkers) via inhalation pathways at GI locations investigating PSC 22 (Pit-sand) and PSCs 24 and 25 (Pit -chalk), based on the carbon dioxide exceedances of short and long-term WEL and depleted oxygen levels.
- A Moderate / Low risk was identified for impact to adjacent land users at GI locations investigating PSC 1 (Works – Crockerhill former brickworks), PSC 2 (Pit -Clay) and the proposed locations of the trenchless crossing reception shafts at the River Wallington, based on the findings of COCs in groundwater.
- A Moderate / Low risk was identified for groundwater at GI locations investigating PSC 1 (Works - Crockerhill former brickworks) and trenchless crossing of River Wallington due to the exceedances of the GAC in groundwater.
- A Moderate / Low risk was identified for groundwater at GI locations investigating PSC 22 (Pit-sand) and PSCs 24 and 25 (Pit -chalk) applying a conservative approach due to the absence of soil leachate results, and/or where the location is within a groundwater source protection zone.
- With the exception of the trenchless crossing beneath the River Wallington, no surface water receptors were identified within a 250 m radius of targeted PSCs. At the trenchless crossing a Moderate / Low risk has been identified to surface waters due to exceedances encountered.
- A Moderate / Low risk was identified for future onsite property/buildings or structures at the GI locations investigated at the proposed shaft reception of the trenchless crossing, based on the carbon dioxide exceedances. The proposed structures are unknown so a conservative approach has been taken.
- All other potential contaminant linkages were either identified as Low or Very Low.

The following risks were determined for the AGP IPS-F site:

- A Moderate / Low risk has been identified for impact to construction, maintenance workers and future site users based on the findings of ground gas monitoring which showed carbon dioxide exceedances for short and long-term WELs and depleted oxygen levels, through the inhalation pathway.
- A Low risk has been identified for impact to construction and maintenance workers from direct contact; dermal contact and ingestion and inhalation of dusts due to findings of no soil concentrations exceeding GAC.
- All other potential linkages were either identified as Low.

7 Geotechnical Testing and Assessment for Section F boreholes

7.1 Geotechnical Testing and Assessment Summary Tables for Section F boreholes

Table 7.1: Geotechnical Testing and Assessment summary for Section F Boreholes

	Geotechnical Property																				
Strata	**Moisture (%)**			**Plasticity Index (%)**			**Particle Size Distribution (Average of values)**		**Triaxial Shear Strength (kPa)**			**SPT Results (uncorrected N value)**			**Uniaxial Compressive Strength, UCS (MPa)**	**Point Load Index Testing , PLT (MPa)**	**Compaction – Max Dry Density (Mg/m3) (Optimum Moisture content, %)**		
Made Ground (MGR)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Particle Size**	(%)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	Not Applicable	Not Applicable	**Min**	**Av**	**Max**
	21	23	27	23	29	35	**Cobbles**	0	120			5	-	10			1.74 (15)	-	1.76 (16)
							Gravel:	16											
							Sand:	35											
							Silt:	28											
							Clay	21											
Total No. of tests	5			4			5		1			3			0	0	2		
Alluvium (ALV)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Particle Size**	(%)	None			**Min**	**Av**	**Max**	Not Applicable	Not Applicable	**Min**	**Av**	**Max**
	13	18	21	7	12	15	**Cobbles**	6				5	7	9[2]			1.69 (12)	-	1.91 (19)
							Gravel:	29											
							Sand:	16											
							Silt:	35											
							Clay:	14											
Total No. of tests	4			3			5		0			6[2]			0	0	2		
Head Deposits (HEAD)	**Min**	**Av**	**Max**	**Min**	**Av[1]**	**Max**	**Particle Size**	(%)	None			**Min**	**Av**	**Max**	Not Applicable	Not Applicable	**Min**	**Av**	**Max**
	14	19	24	8	22[1]	44	**Cobbles**	4				5	22[3]	>50 (280 mm)			1.60 (17)	-	1.74 (21)
							Gravel:	30											
							Sand:	18											
							Silt:	27											
							Clay	21											
Total No. of tests	11			11			11		0			9[4]			0	0	3		
London Clay (LC)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Particle Size**	(%)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	Not Applicable	Not Applicable	**Min**	**Av**	**Max**
	21	23	28	26	31	39	**Cobbles**	0	75	88	100	11	14	16			1.77 (14)		
							Gravel:	1											
							Sand:	17											
							Silt:	43											
							Clay	39											
Total No. of tests	**6**			**4**			4		2			**2**			**0**	**0**	**1**		
Lambeth Group	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Particle Size**	(%)	None			**Min**	**Av**	**Max**	Not Applicable	Not Applicable	**Min**	**Av**	**Max**
							Cobbles	0											
							Gravel:	1											

	Geotechnical Property																					
Strata	**Moisture (%)**			**Plasticity Index (%)**			**Particle Size Distribution (Average of values)**		**Triaxial Shear Strength (kPa)**	**SPT Results (uncorrected N value)**			**Uniaxial Compressive Strength, UCS (MPa)**			**Point Load Index Testing , PLT (MPa)**			**Compaction – Max Dry Density (Mg/m3) (Optimum Moisture content, %)**		
	16	-	19	18	-	38	**Sand:**	32		6[5]	21[5]	25							1.8 (14)		
							Silt:	24													
							Clay	43													
Total No. of tests	3			3			3		0	7			**0**			**0**			**1**		
White Chalk Subgroup (WHCK)	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Particle Size**	(%)	None	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**
							Cobbles	None													
							Gravel:														
	15	27	40	5	7	10	**Sand:**			1	Typically increasing with depth	>50 (90 to 285 mm)	1.27	1.73	2.41	0.1	0.1	0.1	1.57 (17)	1.63 (21)	1.73 (23)
							Silt:														
							Clay:														
Total No. of tests	19			11			0		0	95			5			5			4		

*SPT values have been excluded, Head Deposits at 3F3523DR, 3F3524DR and 3W8553DS (6 No. SPT N values of 20, 27, 28, 34, 35 and 50) White Chalk Subgroup.
** 1 No. SPT N value of 6 has been excluded as an outlier from the Lambeth Group due to water seepage at 1.20 m bgl affecting the ground at 3W8556DS so the range for 6 values instead is shown
[1] Though outliers of 8 and 44 are within expected PI range of Head deposits results excluded from average as bulk of results between 13 and 30
[2] SPT N Values of 19 and 22 excluded as tests completed in both Alluvium and White Chalk
[3] Average based on range of 11 to 35. Outliers of 5 and >50 excluded.
[4] Values of 5 (3W8554DS) and 27 excluded as commenced in Head but completed in White Chalk
[5] Test undertaken near surface and borehole noted as "wet". Value does not correlate with "stiff" description. Test excluded from average calculation

Laboratory California Bearing Ratio (CBR) testing was also conducted for Section F samples, CBR values ranged for:

- Topsoil: 0 – 0.2 m bgl (1 test): CBR Top: 1.2% CBR Base: 1.4%
- Head Deposits: 0.4 – 1.1 m (4 tests): CBR Top: 2.6 – 3.3% (Average: 3.0%) CBR Base: 2.3 – 3.1% (Average: 2.9%). One test is an outlier at 3F3524DR at 1.1 m bgl that recorded a CBR Top and CBR Base value of 12%. This is deemed an outlier potentially due to the presence of cobbles noted within the soil description.
- White Chalk Subgroup: 1.1 m (1 test): CBR Top: 3.3%, CBR Base: 5%

Table 7.2: Geochemical Testing

	Geochemical Testing			
Geology	**BRE SD1 values[1]**			
Made Ground (MGR)	**Test type**	**Min**	**Max**	**Characteristic Value**
	Water soluble SO4 (mg/l)	Below Limit of detection	60	< 500
	Acid soluble SO4 (%)		0.07	0.07
	Total Sulphur (%)		0.04	0.04
	Total Potential Sulphate (%)		0.12	< 0.24
	pH	8.3	9.2	8.3
No. Tests		4		
Alluvium (ALV)	**Test type**	**Min**	**Max**	**Characteristic Value**
	Water soluble SO4 (mg/l)	0	11	< 500
	Acid soluble SO4 (%)	0.02	0.04	0.04
	Total Sulphur (%)	0.0	0.02	0.02
	Total Potential Sulphate (%)	0.0	0.06	< 0.24
	pH	8.2	8.6	8.2
No. Tests		3		
Head Deposits (HEAD)	**Test type**	**Min**	**Max**	**Characteristic Value**
	Water soluble SO4 (mg/l)	Below Limit of detection	40	< 500
	Acid soluble SO4 (%)		0.05	0.05
	Total Sulphur (%)		0.03	0.03
	Total Potential Sulphate (%)		0.09	< 0.24
	pH	7.3	8.9	7.5
No. Tests		8		
London Clay Formation (LC)	**Test type**	**Min**	**Max**	**Characteristic Value**
	Water soluble SO4 (mg/l)	Below Limit of detection		
	Acid soluble SO4 (%)			
	Total Sulphur (%)			
	Total Potential Sulphate (%)			
	pH	7.9	8	7.9
No. Tests		2		
Lambeth Group (LMBE)	**Test type**	**Min**	**Max**	**Characteristic Value**
	Water soluble SO4 (mg/l)	Below Limit of detection	Below Limit of detection	<500
	Acid soluble SO4 (%)	0.05	0.05	0.05
	Total Sulphur (%)	0.02	0.02	0.02
	Total Potential Sulphate (%)	0.06	0.06	<0.24
	pH	8.2	8.2	8.2
No. Tests		1		

	Test type	Min	Max	Characteristic Value
White Chalk Subgroup (WHCK)	Water soluble SO4 (mg/l)	Below limit of detection	10	< 500
	Acid soluble SO4 (%)	0.01	0.39	0.39
	Total Sulphur (%)	Below limit of detection	Below limit of detection	0
	Total Potential Sulphate (%)	Below limit of detection	Below limit of detection	< 0.24
	pH	8.3	8.6	8.6
No. Tests		3		

[1] Total Potential Sulphate is calculated from section *C5.1.2* (BRE, 2005)

Table 7.3: Mass Loss on Ignition and Organic Content Tests

Geology	Mass Loss on Ignition (%)			Organic Content (%)		
Made Ground	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**
	4.2			1.5		
No. Tests	1			1		
Head Deposits	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**
	2.4			None		
No. Tests	1			0		
London Clay Formation	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**
	2.5			None		
No. Tests	1			0		
Lambeth Group	**Min**	**Av**	**Max**	**Min**	**Av**	**Max**
	1.8	-	4.2	0.46		
No. Tests	2			1		

Table 7.4: Additional Tests - White Chalk Subgroup

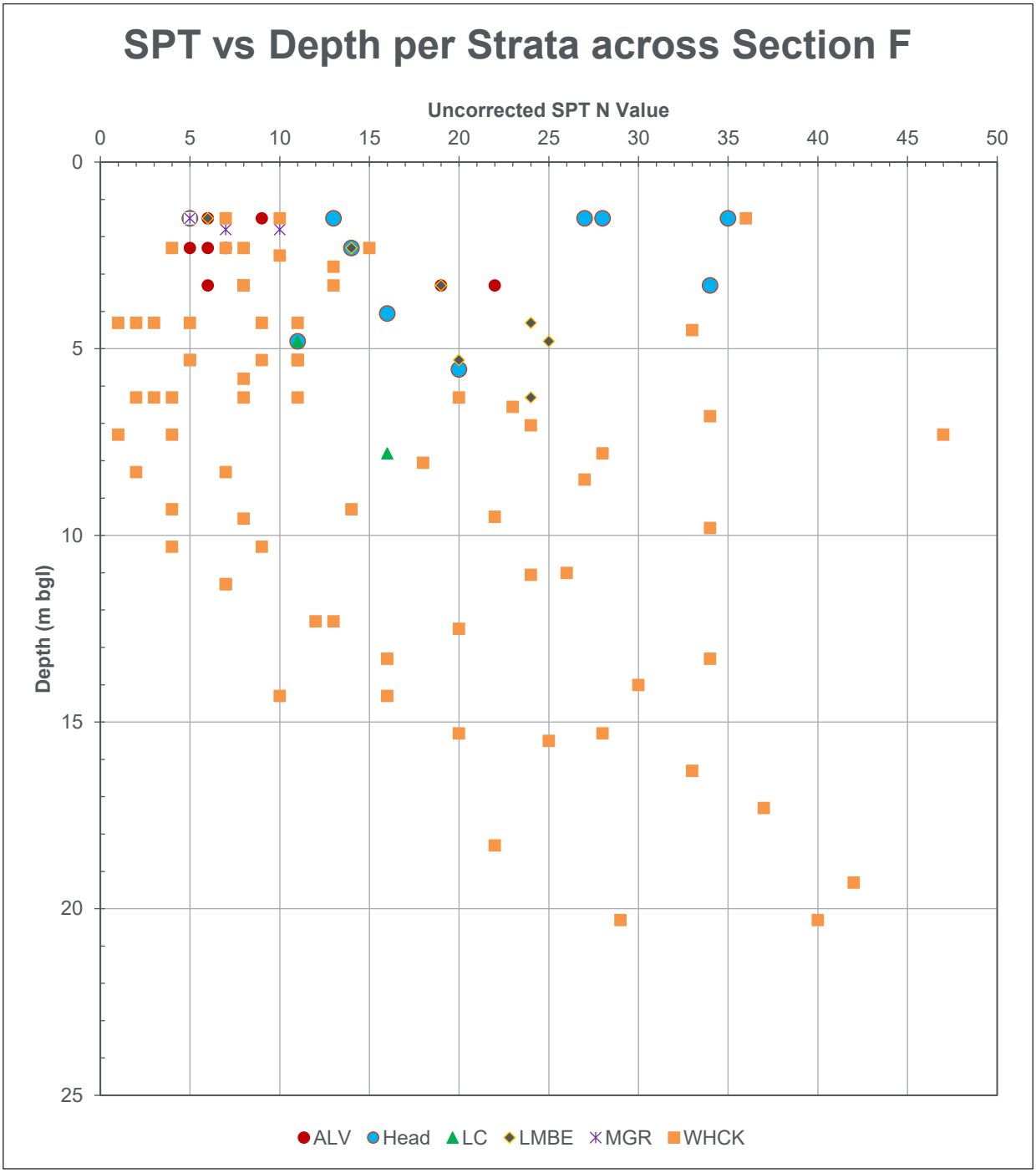
Test	Number of Tests	Average
Chalk Crushing Value (%)	3.1 – 4.9 (3 tests)	Average = 3.87
Bulk Density (mg/m^3)	1.91 – 2.09 (23 tests)	Average = 2.00
Dry Density (mg/m^3)	1.45 – 1.75 (23 tests)	Average = 1.59
Porosity (%)	35 – 46.1 (23 tests)	Average = 41.0
Saturated Moisture Content (%)	20 – 31.6 (23 tests)	Average = 26.0
Carbonate Content (%)	3.2 – 41 (9 tests)	Average = 35.1

7.2 Standard Penetration Test (SPT) vs Depth Relationship for Section F boreholes

Graph 7.1 shows that for Alluvium and Head Deposits there is no clear relationship between SPT N value and depth. Made Ground and London Clay are unable to show a relationship due to limited data (2 No. tests in London Clay and 3 No. tests in Made Ground). Lambeth Group shows an increase in SPT N value with depth.

There is scatter within the data in **Graph 7.1**, as a result of the scattered flint bands throughout the White Chalk Subgroup leading to higher SPT N values across all depths. The link between SPT N values shown between 5 – 20 m depth bgl using cable percussion drilling shows generally that SPT N values increase with depth such as at 2F3502SA and 2F3503SA to 20 m bgl.

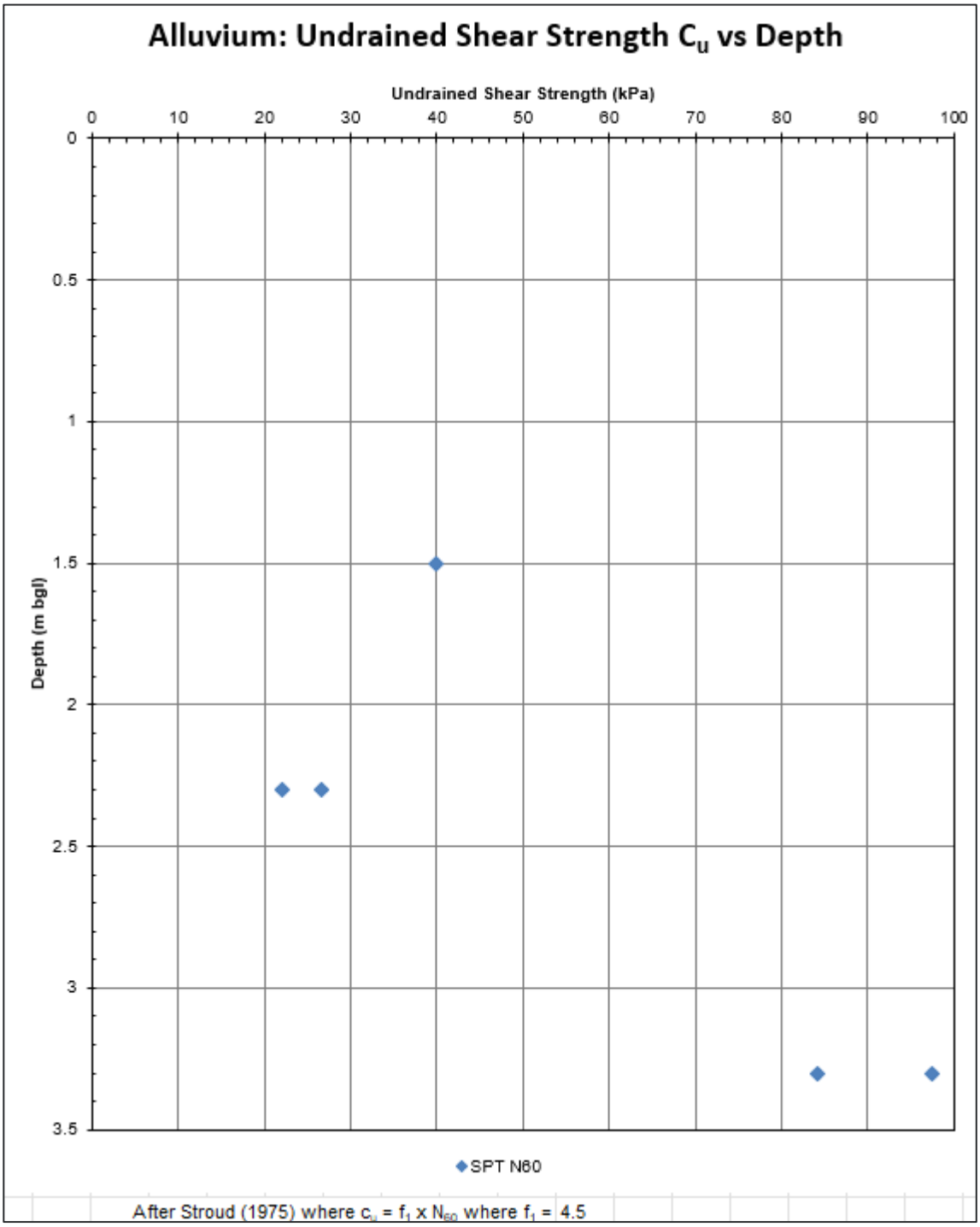
Graph 7.1: SPT vs Depth per strata across Section F boreholes



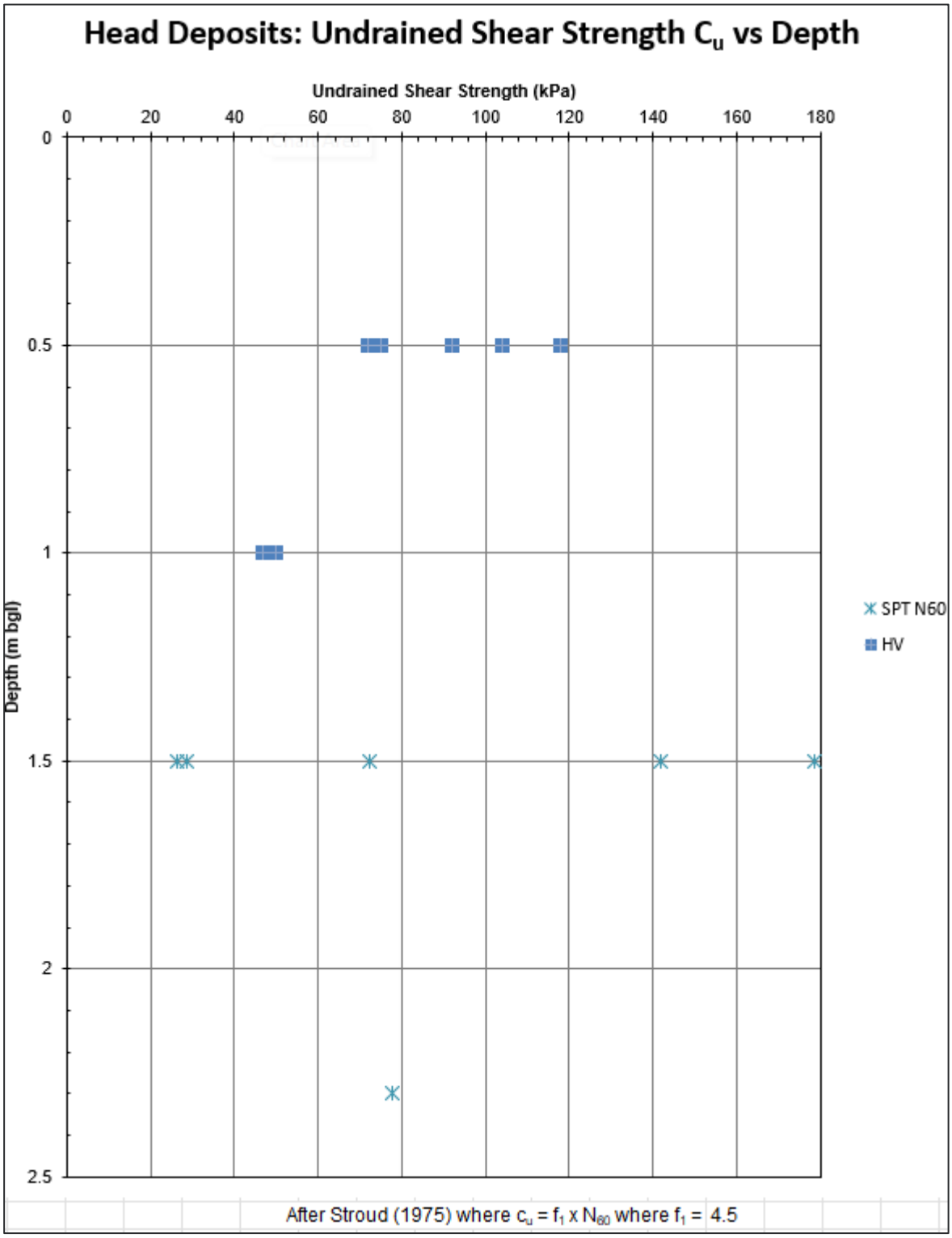
7.3 Undrained Shear Strength C_u vs Depth Relationship for Section F boreholes

Undrained shear strength may be estimated from SPT N data – see **Graph 7.2 – 7.5**. Made Ground c_u ranges between 22 – 120 kPa, suggesting a low to high strength material (though highly variable). Alluvium c_u ranges between 22 - 97 kPa indicative of low to high strength clay. Cohesive Head Deposits c_u ranges between 26 – 178 kPa, indicating a low to very high strength cohesive material. London Clay c_u ranges between 56 – 100 kPa, a medium to high strength clay. Lambeth Group c_u ranges between 32 – 128 kPa, a low to high strength clay.

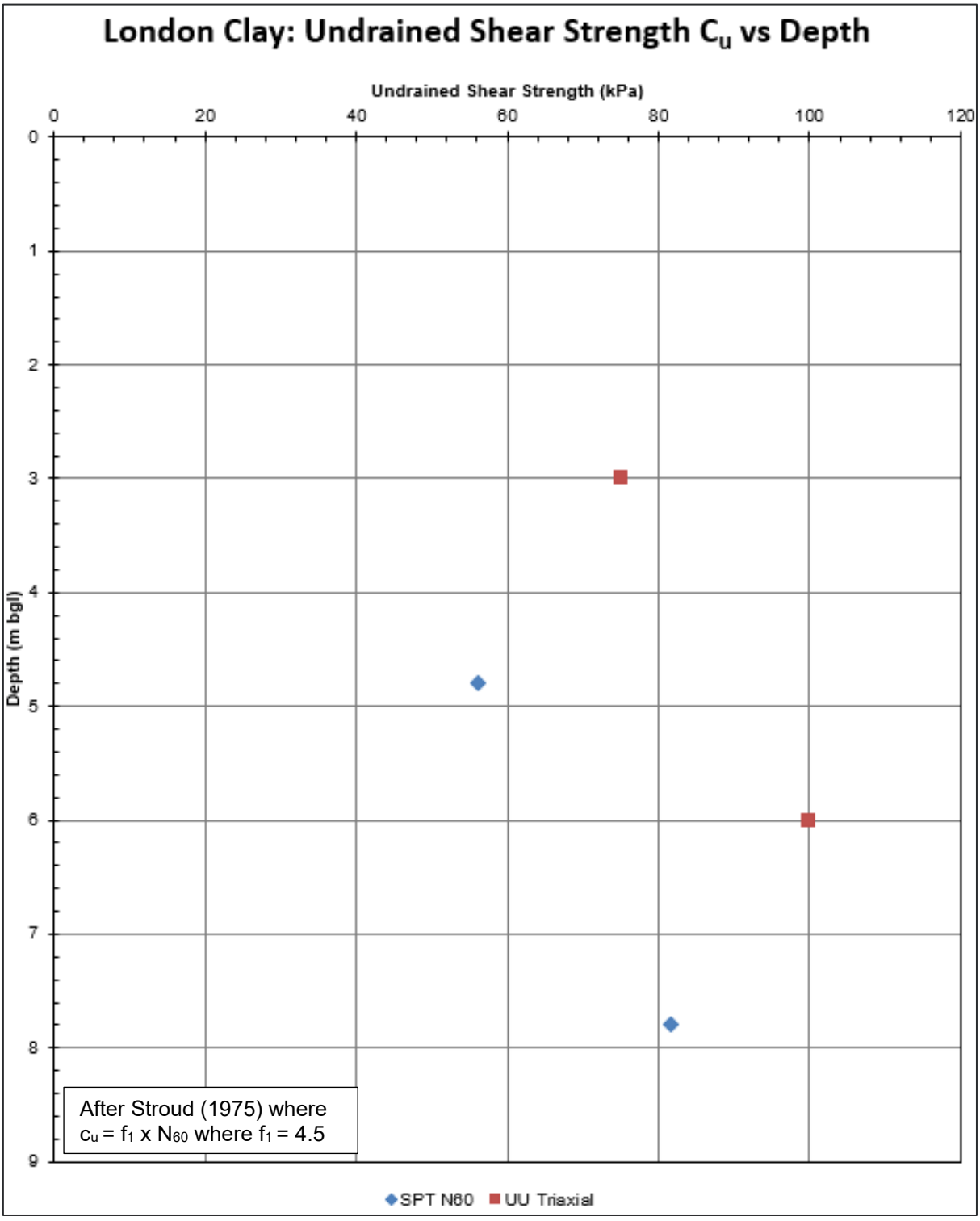
Graph 7.2: Undrained Shear Strength C_u vs Depth of Alluvium across Section F boreholes



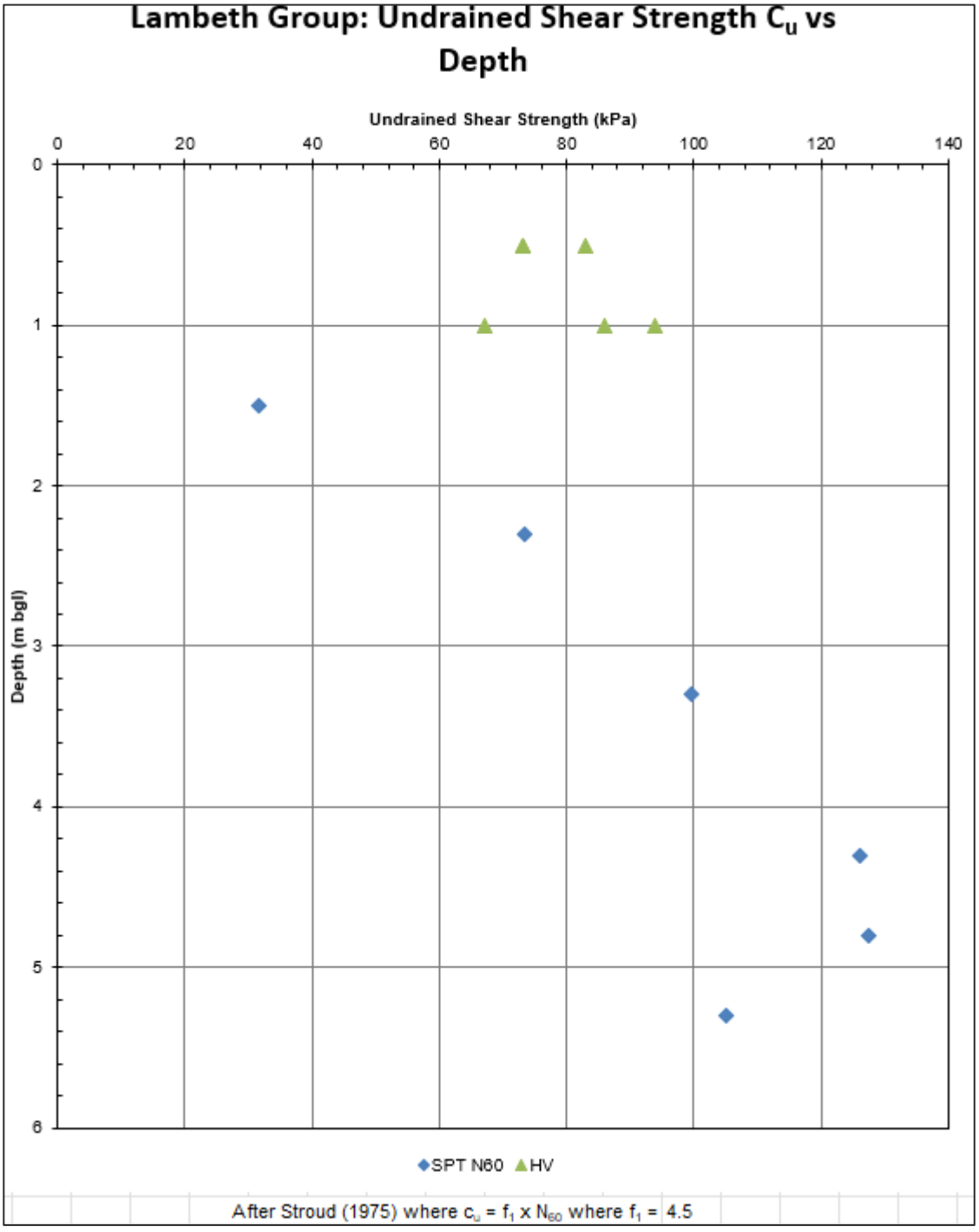
Graph 7.3: Undrained Shear Strength C_u vs Depth of Head Deposits across Section F boreholes



Graph 7.4: Undrained Shear Strength C_u vs Depth of London Clay across Section F boreholes



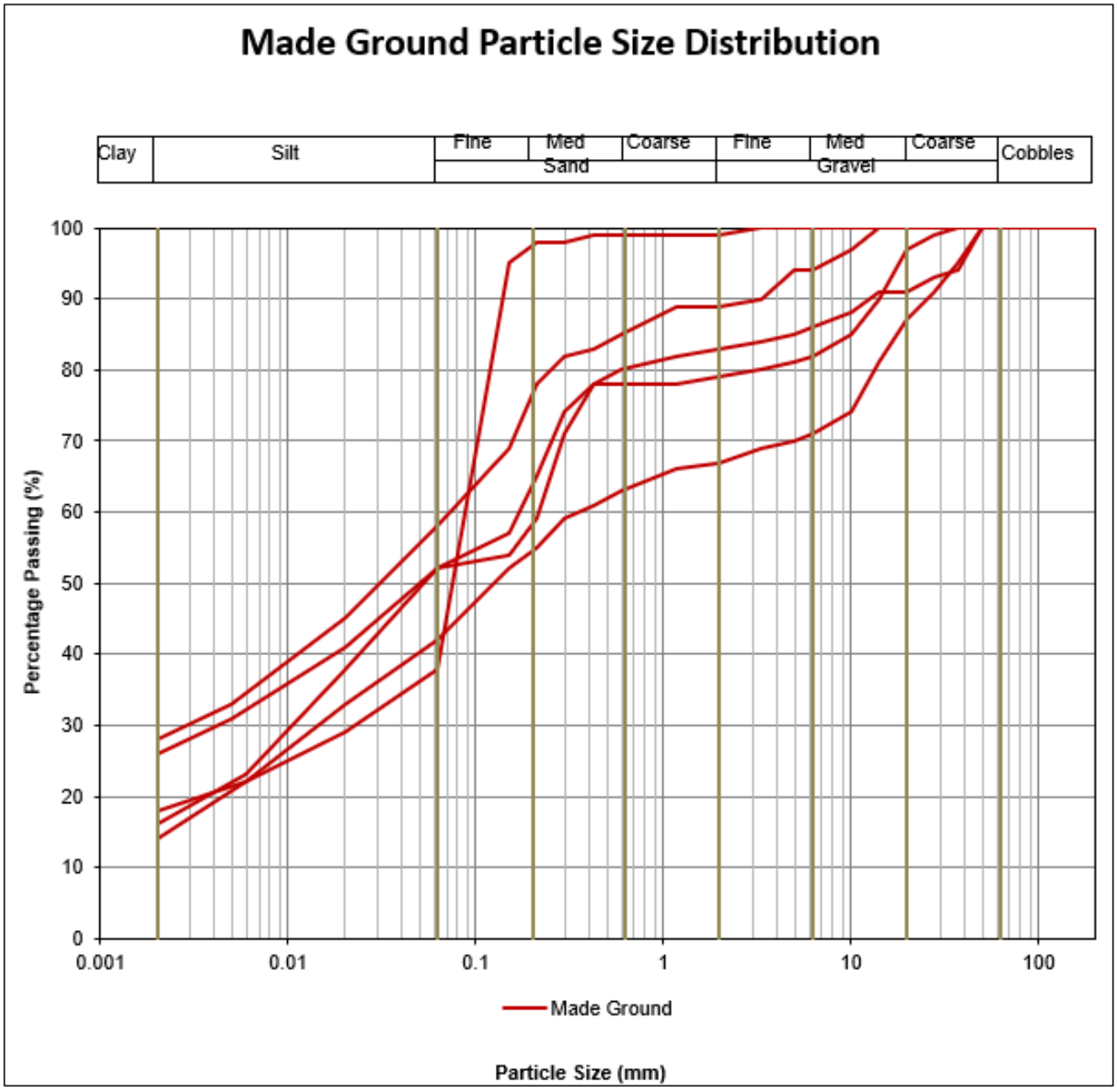
Graph 7.5: Undrained Shear Strength C_u vs Depth of Lambeth Group across Section F boreholes



7.4 Particle Size Distribution for Section F boreholes

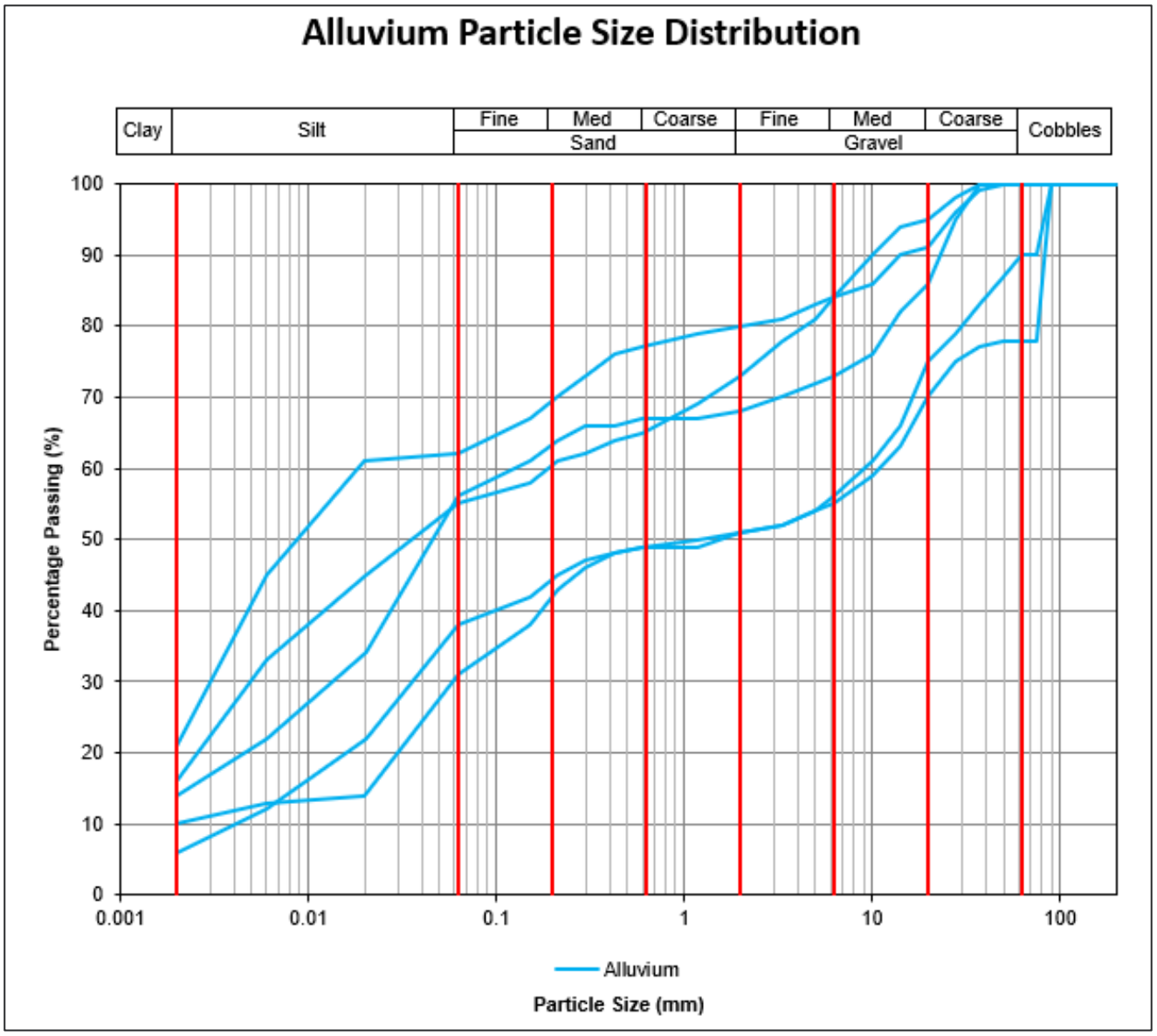
Graph 7.6 shows Made Ground to be within the clay and silt particle size distribution with varying amounts of sand and gravel, this aligns with the descriptions in **Table 4.4.**

Graph 7.6: Particle Size Distribution of Made Ground across Section F boreholes



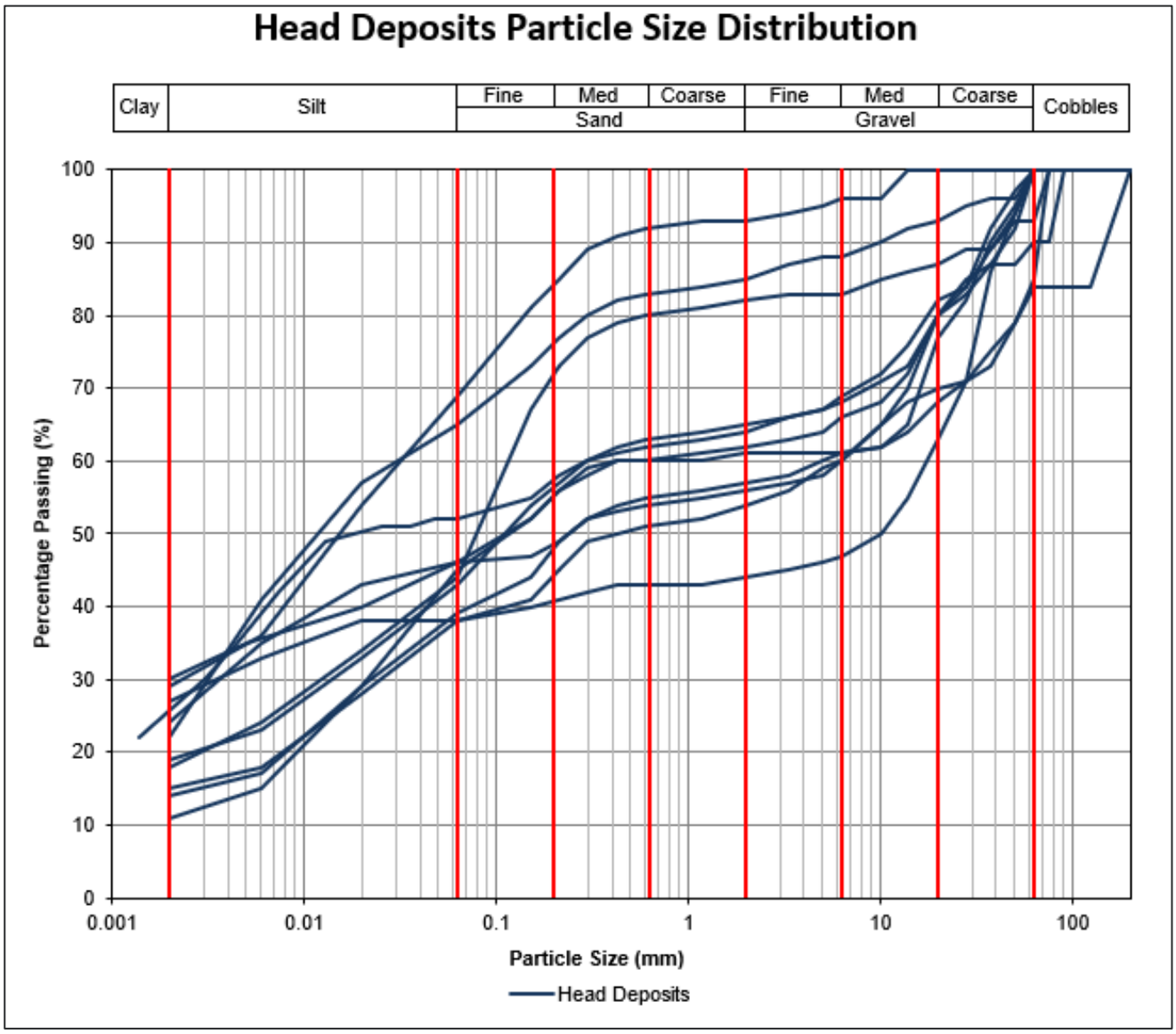
Graph 7.7 shows Alluvium to fall within the gravelly silt/clay particle size distribution classification, which is consistent with the soil descriptions in **Table 4.4**. Some of the material has less than 20 % clay and ~50 % gravel which could be considered as either very gravelly clay/silt or very clayey gravel depending on field behaviour. Where sample test masses have been supplied, it has been noted that insufficient sample size has been tested on 2 of 6 test results. As a result, the gravel proportion may be higher with skewed coarse particle sizes.

Graph 7.7: Particle Size Distribution of Alluvium across Section F boreholes



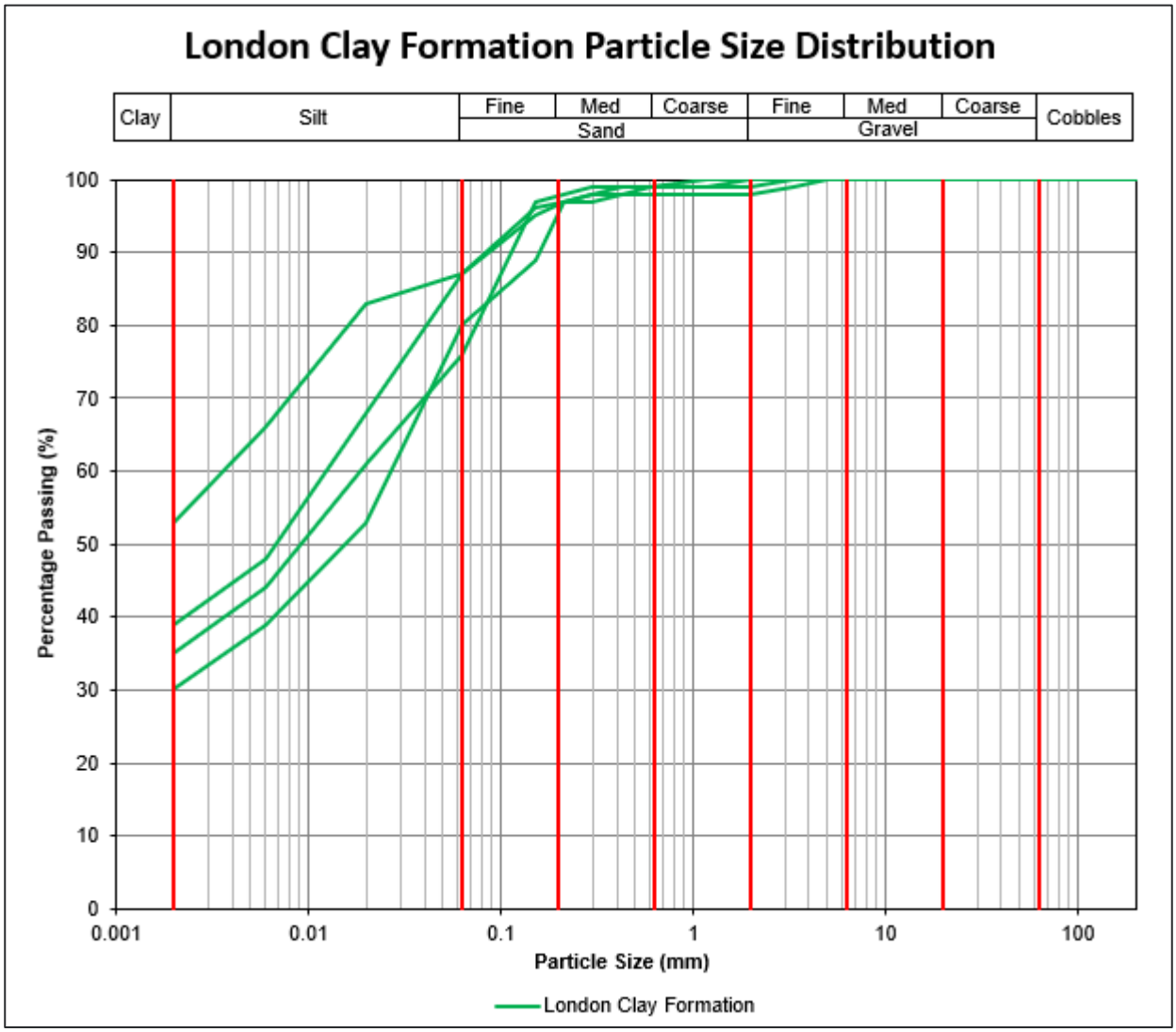
Graph 7.8 show Head Deposits to be within the gravelly clay/silt particle size distribution which is consistent with soil descriptions in **Table 4.4**. Some of the material has less than 20 % clay and ~50 % gravel which could be considered as either very gravelly clay/silt or very clayey gravel depending on field behaviour. Where sample test masses have been supplied, it has been noted that insufficient sample has been tested on some test results. As a result, the gravel proportion may be higher with skewed coarse particle sizes

Graph 7.8: Particle Size Distribution of Head Deposits across Section F boreholes



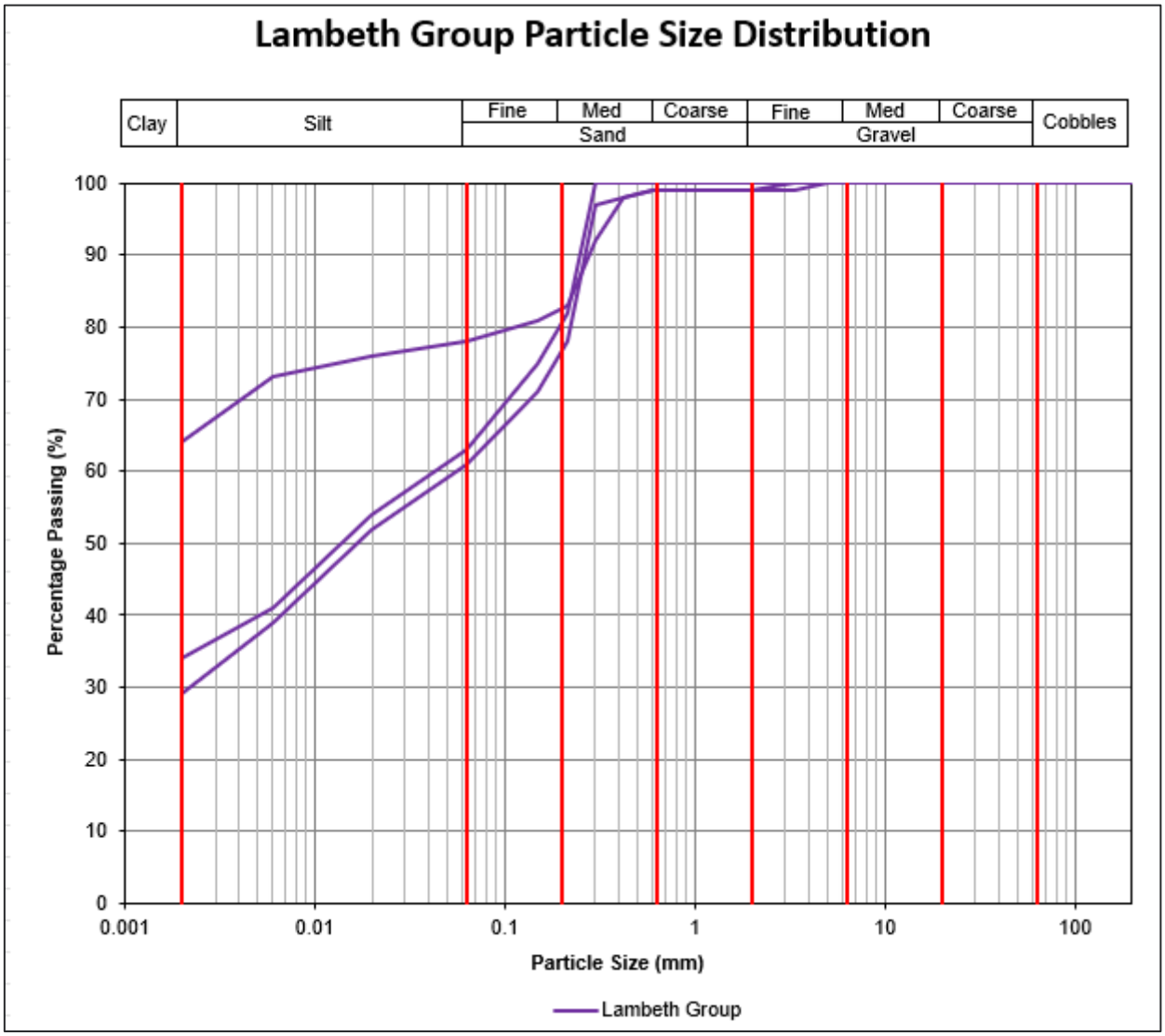
Graph 7.9 shows London Clay to be within the sandy clay/silt particle size distribution which is consistent with soil descriptions in **Table 4.4.** The material could be considered a clay based on plasticity and field behaviour.

Graph 7.9: Particle Size Distribution of London Clay across Section F boreholes



Graph 7.10 shows Lambeth Group to be within the sandy silty clay size distribution which is consistent with soil descriptions in **Table 4.4.**

Graph 7.10: Particle Size Distribution of Lambeth Group across Section F boreholes

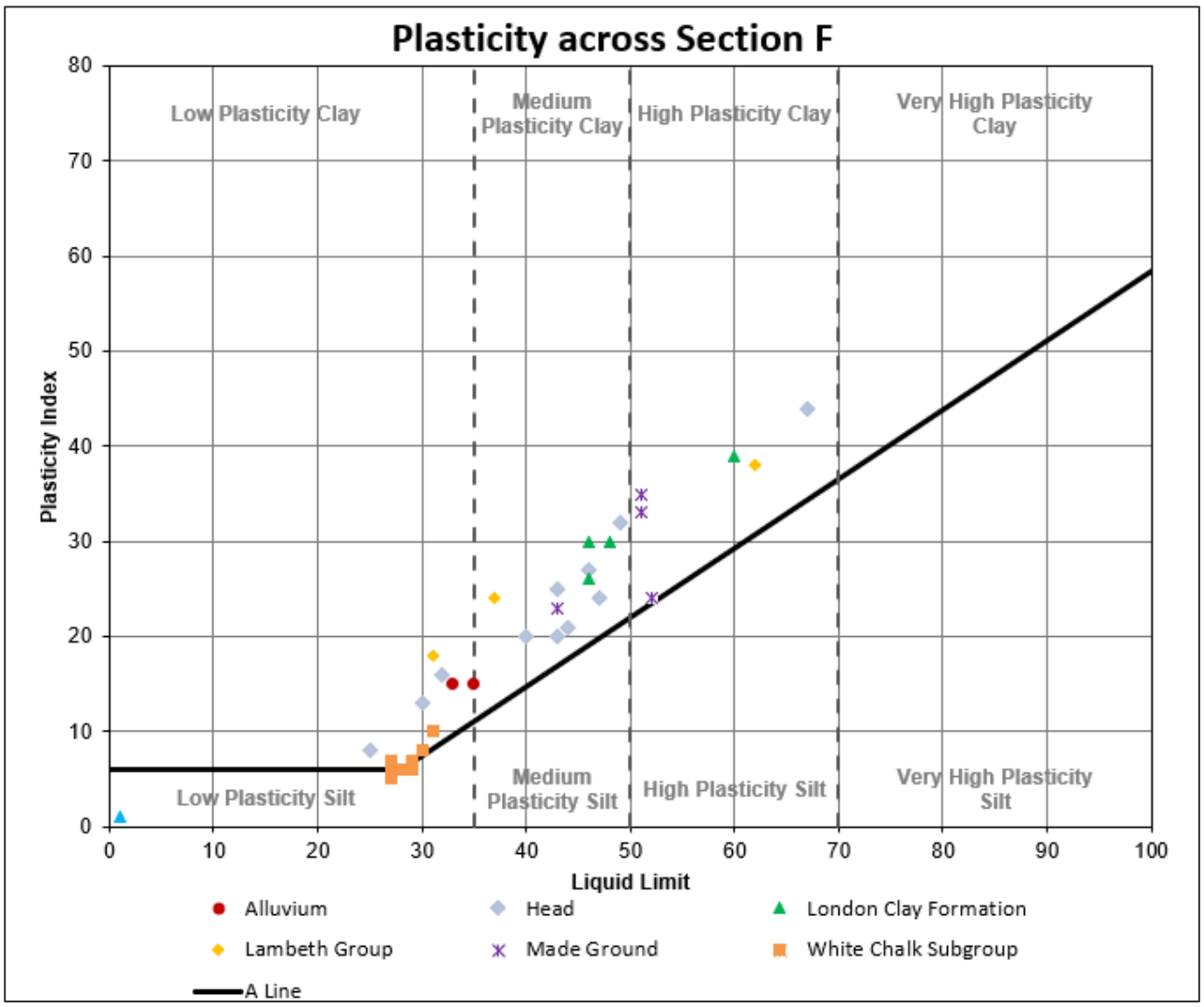


7.5 Plasticity for Section F boreholes

Graph 7.11 shows Made Ground to be high plasticity clay, Alluvium to be low and high plasticity clay, Head Deposits as low to high plasticity clay with one sample as high plasticity silt. London Clay is represented as intermediate to high plasticity clay and the Lambeth Group as low to high plasticity clay.

White Chalk Subgroup is predominantly a low plasticity silt and clay, with two samples as an intermediate plasticity clay. Chalk typically has a low plasticity and plots close to the A-line (borderline clay / silt).

Graph 7.11 Plasticity per strata across Section F boreholes



7.6 Geotechnical Design Parameters for Section F boreholes

Based on the soil descriptions and results obtained from the in-situ and laboratory tests, preliminary characteristic values for each stratum have been derived and are shown in **Table 7.4**.

Table 7.4: Preliminary Geotechnical Design Parameters for Section F boreholes

	Geotechnical Design Parameters										
Strata	**Native Soil Modulus, E'_3 (MN/m^2) [a]**	**Elastic Modulus E_u [b2]**	**Bulk weight density, γ (kN/m^3) [c]**	**Constant angle of shearing resistance, φ (°) [c]**	**Undrained Shear Strength, C_u (kPa) [b1]**	**Cohesion (°)[e]**	**Coefficient of Volume Compressibility, m_v (m^2/MN) [b1]**	**Uniaxial Compressive Strength (MPa)**	**Concrete Aggressivity [d]**	**Earthworks [b2]**	**From PSD results Embedment class with 'as-dug' soils**
Made Ground	Soft clay: 1.5	Short Term: 2 MPa Long Term: 1 MPa	15 – 19	Based on average plasticity index of 29 %, φ to be used: 24°	20	0	0.3	Not Applicable	DS-1 AC-1	1 V : 2 H	Unsuitable for reuse, is a fine-grained soil with liquid limit greater than 50% and high plasticity.
Alluvium (ALV)	Soft clay: 1.5	Short Term: 2 MPa Long Term: 1 MPa	15 – 19	Based on average plasticity result of 18 %, φ = 26°	20	0	0.3	Not Applicable	DS-1 AC-1	1 V : 2 H	Potentially selected material suitable as S4 bedding – subject to further classification testing including liquid limit and PSD. Fine grained soil with more than 25 % coarse grained material, low to medium plasticity and average liquid limit <50%.
Head Deposits (HEAD)	Soft to firm clay: 1.5 Loose clayey sand: 2	Soft to firm clay Short Term: 2 MPa Long Term: 1 MPa Loose clayey sand: 5 MPa	15 – 20	Based on average plasticity result of 22%, φ = 25°	20	0	0.3	Not Applicable	DS-1 AC-1	1 V : 2 – 2.5 H	Unsuitable for reuse, is a fine-grained soil with liquid limit greater than 50% and high plasticity.
River Terrace Deposits/Head Gravel (Not Available for Section F. Based on adjacent section)	Medium dense gravel: 9 - 15 Firm clay: 3	Medium dense gravel: 50 – 100 MPa Firm clay: Short Term: 5 – 12 MPa Long Term: 4 – 8 MPa	18 - 22	26 - 32°	40 - 75	0	0.1 – 0.3	Not Applicable	Not available for Section F, used values from Section G: DS-1 AC-1	1 V : 1.5 - 2 H	Not available for Section F, used values from Section G. S4 – coarse grained soil with more than 12% fines
London Clay (LC)	Firm to stiff clay: 3	Short term:5 MPa Long Term: 4 MPa	16 - 20	Based on average plasticity result of 29 %, φ = 24°	40	0	0.15	Not Applicable	Not available for Section F, used values from Section G: DS-4 AC-4	1 V : 2.5 – 3 H	Unsuitable for reuse, is a fine-grained soil with liquid limit greater than 50% and high plasticity.
Lambeth Group (LMBE)	Firm to stiff clay: 3 Medium dense sand: 4	Firm to stiff clay: Short term:5 MPa Long Term: 4 MPa Medium dense sand: 8	Firm to stiff clay: 16 - 20 Medium dense sand: 18 - 20	Based on average plasticity result of 27 %, φ = 24°	50	0	0.15	Not Applicable	DS-1 AC-1	1 V : 2.5 – 3 H	Not available for Section F, used values from Section G Fine grained, liquid limit generally >50%. Unsuitable for re-use
White Chalk Subgroup	Silty Gravel and very weak rock >40	Elastic Modulus: Not Applicable.	19 – 21 [f]	34 - 39°	Not Applicable	For structureless / remoulded chalk (Dc), c' is 0 kPa though is	Not Applicable	< 3 – 5[e]	DS-1 AC-1	Based on the remoulded friction angle of 34° within	Imported granular sidefill materials S1, S2

		Secant Modulus, E_s: CIRIA Grade B2 medium density chalk: 1500 MN/m^2 [e]				increased by recementing to approximately 10 kPa. Within structured chalk, moderately conservative c' is 20 kPa				CIRIA Grade Dc (structureless) chalk, typical stable batters of chalk fill slopes are expected to be up to around: 1 V : 2 H For structured chalk, CIRIA Grade B, typical stable batters of chalk fill expected to be up to: 1 V : 1 H	

[a] (BSI, 2020) Table 13, [b1] (Tomlinson, 2001) Table 2.5,Table 2.11, Figure 2.33, Section 2.6, [b2] (Look, 2007) Table 11.7, Table 11.8, Figure 14.1, Table 14.10, [c] (BSI, 2015b) Figure 2 and Section 4.3.1.4.8,
[d] (BRE, 2005) Table C1. [e] (Lord et al., 2002) Section 7.5 [f] (9.81 x laboratory calculated bulk density range from **Table 7.3** (1.91 – 2.12 MN/m^2)).

For River Terrace Deposits (RTD) and Lambeth Group (LMBE), geotechnical design parameters are not derived from geotechnical results from Section F boreholes (not all encountered during drilling). The nearest encountered RTD and LMBE from Phase 2 is within adjacent Section G to the west along the pipeline route. RTD and LMBE geotechnical design parameters will be taken from Section G results, the desk study Version 3 (SSP, 2024), British Standards and published reference literature itemized above within the footnotes below **Table 7.4**

7.7 Electrical Resistivity Testing

In situ apparent resistivity testing was undertaken at four locations, the results are presented in **Table 7.5**

Table 7.5: Electrical Resistivity Results for Section F

BH ID	Depth (m bgl)			
	1.0	2.0	3.0	4.0
	Apparent Resistivity (mean) (Ω.m)			
3F3519HP	35	87	150	240
3F3521HP	110	97	88	96
3F3601HP	26	58	58	90
3F3602HP	30	45	59	72

A characteristic apparent resistivity value of 26 Ωm should be taken, which indicates that the ground is highly aggressive towards ferrous metals.

7.8 Infiltration and Permeability Testing

Infiltration Soakaway Testing and falling head permeability testing was undertaken at multiple locations across Section F. The results are presented in **Table 7.6.**

Table 7.6: Infiltration and Falling Head Permeability Testing Results

BH ID	Depth of Test (m bgl)	Test Type	Borehole / Standpipe	Test	Result (m/s)	Strata
3F7509IT	0.57 - 2.23	Infiltration Soakaway Testing	Borehole	1	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	Head Deposits
	0.51 - 2.48			2		
	0.52 – 2.48			3		
3F7510IT	0.71 – 2.52			1		
	0.64 – 2.52			2		
	0.68 - 2.52			3		
3F7512IT	0.67 - 2.72			1		Head Deposits & White Chalk Subgroup
	0.68 – 2.72			2	4.12×10^{-6}	
	0.67 - 2.72			3	3.92×10^{-6}	
3F7513IT	1.11 – 2.66			1	4.69×10^{-5}	
	1.04 – 2.66			2	3.83×10^{-5}	
	1.01 – 2.66			3	3.49×10^{-5}	
3W8553DS	1.50 – 6.00	Falling Head Permeability Test	Standpipe	1	9.4×10^{-7}	White Chalk Subgroup
2F3503SA	2.0 – 20.0			1	4.0×10^{-8}	Alluvium & White Chalk Subgroup
	2.0 – 20.0			2	1.97×10^{-7}	

Infiltration soakaway testing provides a soil infiltration rate. Falling head permeability test provides the permeability (k).

8 Geotechnical Considerations

8.1 Ground Conditions

Ground conditions were generally in agreement with the geological mapping, and as detailed in **Tables 4.1** and **4.2** previously, although in areas a thin Made Ground/layer of unmapped superficial deposits were encountered at surface level. It must be appreciated that British Geological Survey (BGS) maps generally do not show very thin coverings of superficial deposits, typically only showing superficial deposits when they are predicted to be 2 or 3 m in thickness (though this does vary depending on the detail of the mapping).There is a thin covering of Made Ground up to 3 m thickness across a small number of locations (2F3500DS, 3F3517DS, 3F3523DR, 3W8558SA and 3W8567SA).

The superficial deposits, comprising of Alluvium and Head Deposits, were typically encountered within the boreholes as a mixture of either soft sandy gravelly clay / dark brown clayey sand with cobbles of flint (Alluvium) or as a variably soft through to stiff sandy gravelly clay with flint and chalk gravel / loose clayey gravelly sand with flint cobbles and rare flint boulders (Head Deposits). River Terrace deposits have not been encountered during the GI, however BGS mapping shows it to be present adjacent to the River Wallington and Crockerhill.

Bedrock deposits of the London Clay Formation, which is only expected in the northwest of Section F between chainages 14345 and 14800 m, were encountered in two locations (3W8559TP and 3W8567SA) at depths of 2.4 m (beneath Made Ground) and 3.1 m bgl (beneath London Clay derived Head Deposits) . BGS mapping shows that within this section the London Clay Formation is expected from surface.

Lambeth Group (expected within the northwest of the route only between 13700 and 14015 and between 14070 and 14345 m)) was encountered at depths of between 0.35 m and 3.5m bgl beneath Made Ground across locations: 3W8556DS and 3W8558SA.

White Chalk Subgroup is expected to be the encountered bedrock across the route where London Clay Formation and Lambeth Group are absent or recorded higher up in the geological sequence such as at 3W8558SA. At 3W8558SA, Lambeth Group is encountered at between 3.5 – 6.7 m bgl, underlain by White Chalk Subgroup.

Trenchless crossings boreholes (2F3502SA and 2F3503SA) are located 40 m and 280 m respectively from the River Wallington. The maximum thickness of superficial deposits is currently not confirmed, but boreholes on the watercourse upstream and downstream of the location have noted superficial thicknesses approaching 6 m.

8.2 Foundation Design

For the approximate 3.6 km length of below-ground pipeline, open-cut sections are expected to be founded within all strata for the majority of 1200 mm diameter ductile iron (DI) open-cut pipeline sections within 3 – 6 m bgl for Section F described above. The ground is expected to be capable of supporting all required plant, except perhaps any soft Alluvium (e.g. near to the river crossing) or soft Head Deposits. If permanent above ground structures are proposed in these locations, some form of ground improvement may be required (e.g. remove and replace any soft material at formation level with coarse granular fill); suitable ground protection would be required where plant/access over similar soft ground is required e.g. proposed trenchless crossing.

Chalk bedrock is very close to the surface across the route. As a result, chalk and chalk derived materials are frost susceptible soils and typically any foundations should be buried a minimum of 450mm to avoid the effects of frost heave.

Section F construction is expected to result in a net reduction in ground bearing pressure at formation level, and hence bearing resistance and settlement issues are not anticipated.

Many of the borehole logs do not provide a CIRIA grade of chalk. The percussive nature of dynamic sampling and cable percussion drilling in chalk destroys the natural structure of the strata and as such material is commonly recovered as a “putty” chalk and as such logged as “ungraded”. The thickness and distribution of the various chalk grades can vary significantly both vertically and laterally across a site. It is advised that any areas where proposed foundation works are proposed upon the chalk is preceded by further ground investigation likely consisting of trial pits, inspected and logged by a suitably qualified engineer, and plate bearing tests.

The pumping station (IPS-F) consists of above ground structures; generator compressor kiosk, HV & LV switch room and pumphouse, and one partially buried structure; the pump sump twin cell. The IPS-F is adjacent to 3F3523DR and 3F3524DR, which present variable ground conditions across the proposed structures; soft to firm gravelly clay Head Deposits (to approximately 1.5 m bgl) and medium dense gravel (3F3523DR only) noted at 6.25 m bgl (13.27 m OD) and 1.55 m bgl (+19.96 m OD) respectively, overlying the White Chalk Subgroup composed of “unclassified” CHALK typically recovered as GRAVEL / COBBLES in a chalk SILT matrix with variably none to frequent angular fine to coarse flint fragments to 13.00 – 15.70 m bgl further underlain by CIRIA grade B then grade A Chalk to 30.0 m bgl. Based on the nature of the recovered “unclassified” chalk it is believed that at worst the material may be classified as D_c and similar material was noted within infiltration pits. On review of the topographic map, it would appear that the deeper Head Deposits are associated with a more centralised position over the centre of a V-shaped Valley feature heading towards the river channel to the east.

It is considered that both the Head Deposits gravels and the Chalk are suitable bearing materials for the proposed structures. A presumed bearing value in the region of 100 kPa (Tomlinson, 2001) is recommended for the gravels (foundation width up to 4 m) and of 225 kPa for the Chalk (CIRIA, 2002). Only very lightly loaded structures or those non-sensitive to movement should be considered upon the soft clays of the Head Deposits Any soft spots encountered at founding level within the Head Deposits and White Chalk should be removed and replaced with a suitable granular fill.

8.3 Shallow Excavation

8.3.1 Excavation

Shallow excavations for the proposed open-cut pipeline route are expected to be constructed between 3 m – 6 m bgl, within Superficial Deposits, White Chalk Subgroup bedrock, London Clay and Lambeth Group (within the northwest only). Excavations are expected to be within the capability of conventional plant.

The IPS-F is to be constructed at between 2 - 6 m bgl within Head Deposits (encountered top depth between 0.15 m and 6.25 m bgl) and White Chalk Subgroup (encountered top depth varies between 0.80 and 1.55 m bgl).

Full excavation support would likely be required in superficial deposits, particularly in soft water-bearing Alluvium materials near water courses. Where space permits (e.g. in open land), it may be possible to construct the shallow pipework within unsupported battered trenches though sides of the excavation may be prone to drying out and weathering could cause sides to slip. This is generally applicable to clay (Superficial Deposits, London Clay, Lambeth Group (clay)) and when excavations are open for a long time. Stepping temporary slopes and/or supporting trenches would be beneficial to prevent this from occurring (CIRIA, 1992). Head Deposits commonly contain relic shear surfaces, which may become unstable during excavation so these areas should be monitored during construction.

The scope of excavation support required in Chalk will depend on the excavation method period for which the excavation is to remain open and the groundwater control method. The majority of the Chalk across Section F is either not possible to determine due to 'recovered as gravel/cobbles/silt' descriptions or CIRIA grade Dm/Dc. Based on worst case of CIRIA grade Dm/Dc and **Table 7.3** values for Chalk Crushing Value and Saturation Moisture Content, construction methods for grade D chalk would be recommended for construction in summer months using face shovel excavation methods. Instability can frequently occur, and compaction effort may have to be reduced except in very dry weather as shown in Figure 5.1(a) and Figure 5(b) (CIRIA, 2002)

For shallow, short duration excavations above the groundwater table it may be possible to have excavation faces unsupported, however deep excavations, those open for long periods and/or below the groundwater table may need full excavation support. Small amounts of groundwater were encountered during the GI. During monitoring groundwater was encountered within 2F3502SA, 2F3503SA, 3F3523DR, 3W8558SA and 3W8567SA between 1.0 m and 10.04 m bgl. Many investigations were dry during the GI and monitoring phase.

Chalk is highly susceptible to softening in the presence of water and can degrade into an unworkable slurry. It is recommended that, where required, dewatering is carried out in advance of excavation, and excavations are protected from the ingress of surface water. It would be prudent to carry out excavations in Chalk areas during the summer when the risk from inclement weather is lower.

8.3.2 Groundwater Control

Across the general Section F route, many exploratory hole locations were dry, and groundwater was not commonly encountered at shallow levels. It was only recorded in three boreholes between 2.22 m (6.92 m OD) and 6.92 m bgl (2.24 m OD) and in both boreholes either side of the trenchless crossing at the River Wallington (2F3502SA and 2F3503SA), as shown in datalogger records at **Graph 4.1.** Groundwater was encountered locally at in the northwest of Section F within 3W8567SA between 0.98 – 2.47 m bgl (49.16 to 47.67 m OD). All these locations are expected to be controllable by conventional sump pumping though consideration of the local watercourse must be considered in the development of the solution at the River Wallington.

Groundwater was not encountered at the proposed IPS-F AGP site during monitoring.

There were no instances of artesian groundwater conditions above ground level during investigation or monitoring.

8.4 Flotation

Details of groundwater observations are noted above and within **Table 4.5.** In the vicinity of the IPS-F, no groundwater was noted within the boreholes or the installed instrumentation (installed to a depth of 10 m bgl) and the ground level is 10 m+ higher than the river situated just to the east and as such it is considered that significant groundwater issues are not anticipated. However, it is understood that the shafts for the trenchless crossings may be retained as permanent structures and groundwater was recorded close to ground level. Therefore, the structures should be designed to resist flotation in all stages of temporary and permanent works.

8.5 Trenchless Construction

The Applicant has confirmed the current trenchless crossing pipeline, shaft dimensions and depths. Launch shaft dimensions will range between 9.0m – 9.5 m diameter and reception shafts range between 5.0 m – 5.4 m diameter with a 700 mm – 800 mm diameter DI pipe within a 1200 mm internal diameter pipejack. Trenchless crossings are presumed to be driven west to east, so the launch shafts are always the most westerly shafts. The geology of the shafts is summarised in **Table 8.1**.

Table 8.1: Shaft Construction Geology

Trenchless Hole Location (Launch Pit)	Base of Shaft Construction Depth m bgl (m OD)	Shaft Strata	Trenchless Hole Location (Reception Pit)	Base of Shaft Construction Depth m bgl (m OD)	Reception Pit Shaft Strata
2F3503SA	9.4 (-0.88)	Alluvium and White Chalk Subgroup (unclassified – recovered as gravel sized clasts in silt/sand matrix at proposed pipeline depth)	2F3502SA	11.1 (-1.98)	Head Deposits and White Chalk Subgroup (unclassified – recovered as gravel sized clasts in silt/sand matrix at proposed pipeline depth)

Trenchless crossings must be a minimum of 2.5m under the lowest point of the riverbed or road and are expected to be between 9.0 – 11.0 m bgl under the River Wallington. It is expected, based on the tunnelling depth, that the tunnel will be constructed in White Chalk Subgroup, which is considered appropriate for jacking for 1200 mm internal diameter jacking pipes.

For the River Wallington crossing the bore would likely be below the groundwater table, and may not be self-supporting, (i.e. the bore would be at risk of collapse), therefore a slurry supported Tunnel Boring Machine (TBM) is deemed appropriate. A CIRIA grading was not supplied for the chalk recovered from either borehole for the crossing. However, as the material was recovered as clasts in a silt/sand matrix it is considered that at worst a Dc grade classification could be applied.

8.6 Ground Aggressivity

8.6.1 Concrete

The results of the pH and sulphate tests (SO_4) undertaken on Alluvium, adjacent River Terrace Deposits, Lambeth Group and White Chalk Subgroup natural ground material samples recovered indicate that worst case design sulphate class is DS-1 and the worst case aggressive chemical environment for concrete (ACEC) class AC-1. Made Ground recorded a worst-case design sulphate class as DS-1 and the worst case aggressive chemical environment for concrete (ACEC) class AC-1.

It is recommended that testing targeting London Clay Formation (LC) is undertaken, as it is a known aggressive material. Within neighbouring Section G, LC has been classified as DS-4 AC-4

8.6.2 Ferrous Metals

Strata across the proposed pipeline route has the potential to be aggressive towards ferrous metals.

Chalk would be less aggressive due to crops at ground level for much of the pipeline route in Section F. Different pipeline coatings can be used to overcome the aggressivity across separate parts of Section F where chalk is at the surface.

Following guidance published by TRL (Eyre, D., & Lewis, D.A., 1987) if the ground has the below characteristics, it is considered aggressive towards ferrous metals with:

- Characteristic apparent resistivity value of 10 Ωm
- Organic content greater than 0.2 %
- Plasticity index greater than 15

- Poorly drained area or groundwater above pipework level
- Moisture content greater than 20 %
- pH greater than 6
- Soluble sulphate 500 to 1000 mg/l
- No aggressive compounds in Made Ground (e.g. cinder or coke)

Eyre and Lewis' (1987) Contractor Report has two soil corrosivity assessment methods; Table A1 and B1. Using a worst case scenario, these two assessments class Section F as highly aggressive (Table A1) and very aggressive (Table B1) respectively.

8.7 Natural Cavities

Dissolution is a common weathering mechanism in chalk. Typical features associated with dissolution in chalk include an irregular interface with the cover material, and downward tapering pipes infilled with compressible material and voids. If undetected, dissolution features pose a risk to construction through differential settlement or collapse.

The highest risk areas are generally found where surface water originates on Tertiary beds (e.g., the Lambeth Group / London Clay Formation) and soft water infiltrates through those into the chalk –, though the overall risk is dependent not only on stratigraphic sequence but also on hydrogeological and geomorphological factors. The SHR_N (Subsidence Hazard Rating number) determined by the approach proposed by Edmonds 2001 would, at its worst case, be >400, indicating a high hazard category (i.e., statistically 22.8 % solution features recorded in the natural cavity database occurred in at sites with these characteristics, >466 solution features per 100km^2) (Edmonds, 2001). The risk would generally reduce significantly upslope.

The highest risk of solution features is around the village of Knowle surrounding Ravenswood House Hospital, (collectively 118 dissolution pipes have been mapped in this area within 50m of 456332E, 109661N) and to the northwest of the A32 Wickham Road (3 dissolution pipes are located within 50m of 457693E, 109397N) (Groundsure, 2024).

It should be noted that no evidence of dissolution features was identified within the boreholes drilled across Section F, which were not in high risk areas for such features.

8.8 Electromagnetic (EM) Survey Construction Considerations

The below text is from the SOCOTEC report:

''The Electromagnetic Conductivity and Magnetic Susceptibility maps are presented in Drawing L3067-23-Phase 3C-EM-RO/01, The site is broadly characterised by conductivity values between ~0-60.9mS/m and magnetic susceptibility values between ~8.2-34.3. A general trend of increasing conductivity can be seen from west to east, corresponding with the northeastern aspect of the slope and its lowest point (with the lowest topographic point being the most eastern part of the survey area).

Two anomalies were identified within the data, having distinctly varied values compared to the surrounding areas and data trends. A large anomaly in the northwest of the survey area, comprising relatively high EM conductivity values of ~20.8-60.9mS/m and relatively low magnetic susceptibility values of ~8.2-30.9. A further anomaly located in the southeast of the survey area, comprising relatively low conductivity values (when compared to the surrounding area) of ~5.4-10.1mS/m. It is worth noting that the horizontal mode (vertical coplanar coil orientation) data provided less detail than the vertical mode, being more susceptible to the change in slope and as such is not presented''.

The data did show anomalies of interest in the far northwest of the area (in the proposed ancillary compound area more than 200 m northwest from the proposed IPS-F Above Ground Plant (AGP) area) and within the AGP site to the southeast but the anomalies were not in critical areas that will be constructed on according to theApplicant. EM findings are within **Appendix K** (SOCOTEC, 2024a).

8.9 Intermediate Pumping Station – F (IPS-F)

8.9.1 Bearing Resistance at IPS-F

The IPS-F contains a pumping station, surge vessels, ancillary structures and an access road. Ultimate bearing resistance calculations have been completed for the largest structures (Pump House). The calculations have completed based on removal of topsoil and Head Deposits (soft to firm sandy gravelly clay) - the IPS-F is to founded on a layer of granular fill (gravel) approximately 1 – 1.5m in thickness to be imported, above White Chalk Subgroup.

Pump House (11 m width x 30 m length x 8 m height)
Preliminary assessment of bearing resistance has been carried out in accordance with Eurocode 7, considering both drained and undrained cases. A permanent gross load of 65 kPa has been assumed for each tank (65 kPa representing 4 m from base of tank to maximum height of ceiling multiplied by a full water load of 10 kPa as 40 kPa with a 25 kPa load for wall and roof slab weight). The ultimate bearing resistance, q_n based on a drained case is approximately 1340 kPa, well in excess of the anticipated ground pressure of the structure and indicating and overdesign factor of 14.7. The full output for the drained case is attached within **Appendix K**.

8.9.2 Settlement at IPS-F

Pumping Station (11 m width x 30 m length x 8 m height)
It is recommended only founding on granular imported fill (gravel) above the White Chalk Subgroup and removing all Head Deposits where present at formation level. After removal of cohesive material above, the settlement is likely to be minimal.

8.10 Geotechnical Hazard Assessment

Table 8.2 summarises potential geotechnical hazards associated with the Site during and post construction.

Table 8.2: Potential Hazards

Hazard	Source of information/comment	Mitigation method
Unforeseen Ground Conditions	Project specific ground investigation undertaken in 2023 and 2024 to inform outline design. Trenchless bore collapse and uncontrolled ground settlement, very soft / loose material present that is inadequate for founding of pipework / chambers.	Carry out additional exploratory holes, to include investigation at around 200 m intervals throughout, and at all trenchless crossings. Liaise with the Applicant and Principal Contractor to agree on potential exploratory locations including a site visit and review of available geological information. Targeting of area where River Terrace Deposits are mapped, this currently has not been investigated. Further complete additional exploratory holes at the area of IPS-F due to the combination of ungraded chalk within 3F3523DR and 3F3524DR and CIRIA grade Dc described within the Infiltration Test pit locations (3F7509IT, 3F7510IT, 3F7512IT, 3F7513IT)
Groundwater	Lack of knowledge of groundwater conditions. Potentially result inappropriate/inadequate choice of dewatering techniques, excessive sump pumping causing settlement, unstable ground, inappropriate bore support and flotation.	Groundwater results should be reviewed over a minimum period of 6 months. Downhole dataloggers installed such as at 2F3502SA at a trenchless crossing location should inform the groundwater levels over a 12-month period to estimate groundwater levels during construction, and any potential dewatering requirements. Continued monitoring or groundwater at boreholes with installations.
Excavation Collapse	Head Deposits commonly contain relic shear surfaces promoting instability issues Structureless chalk prone to soften rapidly and become unstable when worked in presence of water (ground/surface) Potential for open fractures at unfavourable orientation within structured chalk	When excavating, assess the degree of fracturing and structure as the excavation progresses in depth and lateral extent Check to see if the excavation remains intact or blocky. If the ground becomes increasingly laminated and irregular, excavate in reduced thicknesses rather than larger blocks at a time to prevent the likelihood of collapse. Use vertical sided trench support: trench sheets or boxes, as required. Suitable methods of surface water and groundwater control to be in place when working through chalk deposits Blind chalk as soon as practicable
Existing buried services - strike, injury	Utility drawings provided to the Principal Contractor / Ground Investigation Contractor may not reveal all services underground and may differ.	Ensure that utility providers are contacted in advance of excavation works with any uncertainty proven on site by those providers having engineers on site. They should be in attendance where necessary such as near high risk locations. For further confirmation, Ground Penetrating Radar (GPR) and/or PAS128 surveys may also be performed.

Hazard	Source of information/comment	Mitigation method
Striking unexploded ordnance (UXO),	The Site was impacted by bombing in WWII (see separate UXO study)	Preliminary Risk Assessments were conducted specific to each exploratory hole location to reduce the section-wide greater UXO risk. Detailed UXO assessment undertaken with the following findings (Zetica, 2024): ■ No significant sources of UXO hazard have been identified. ■ Proceed with works. An UXO awareness briefing is prudent for staff involved in excavations. ■ LOW UXO hazard level is applied to Section F
Aggressive Chemical Environment for Concrete/ Failure of new assets due to degradation	The results of the pH and sulphate tests (SO4) undertaken on Made Ground, Alluvium, adjacent River Terrace Deposits, Lambeth Group and White Chalk Subgroup on all natural ground material samples recovered indicate that worst case design sulphate class is DS-1 and the worst case aggressive chemical environment for concrete (ACEC) class AC-1. It is recommended that testing targeting London Clay Formation (LC) is undertaken, as it is a known aggressive material. Within adjacent Section G, LC has been classified as DS-4 AC-4 Excessive corrosion of ductile iron.	Ensure that additional testing is carried out for London Clay to fully categorize the design sulphate class and concrete aggressivity design sulphate class retrieving more samples of each stratum being tested. Further resistivity testing should be carried out due to only 4 hand dug trial pit locations across the pipeline with results.
Buried chalk cavities	Groundsure report showed Section F to contain approximately less than 10 buried chalk cavities that could impact construction.	An EM survey was completed at IPS-F in April 2024. The data did show anomalies of interest (in the far NW of the area in the proposed ancillary compound area more than 200 m NW from the proposed IPS-F Above Ground Plant (AGP) area and within the AGP site to the SE but the anomalies were not in critical areas that will be constructed on according to the client. EM findings are within **Appendix K**

9 Conclusions

9.1 Geotechnical

The GI data for Section F comprises 29 No. boreholes for the selected areas of trenchless crossings beneath the River Wallington, along the linear pipeline route, non-pipeline infrastructure at IPS-F and at the Potential Sources of Contamination.

Superficial deposits including Alluvium, Head Deposits, River Terrace Deposits, White Chalk Subgroup bedrock and Lambeth Group (in the northwest only) is likely to be encountered during open-cut construction with White Chalk Subgroup bedrock only likely to be expected during the trenchless crossing beneath the River Wallington. The trenchless construction technique has been confirmed by the Applicant to be pipejacking. Limited amounts of Made Ground are also expected locally along the pipeline route. High water levels across 2F3502SA, 2F3503SA and 3W8567SA may require sump pumping/installation of deep wells to take place. Groundwater levels were, generally, very low (such as near the base of boreholes 2F3512RC, 3F3524DR, 3W8553DS and 3W8554DS) or dry during monitoring/drilling.

Proposed open-cut construction to between 3 – 6 m bgl and trenchless construction to between approximately 9 – 11 m bgl are to be within White Chalk Subgroup, which is not aggressive to concrete suggesting a worst-case design sulphate class of DS-1 and the worst case aggressive chemical environment for concrete (ACEC) class AC-1. Design sulphate class and aggressive chemical class testing was not undertaken upon the London Clay Formation, it is recommended it is undertaken to classify this material.

As a result of particle size distribution (PSD) tests, Alluvium indicates the material embedment class without processing is S4 (fine grained soil with more than 25% coarse grained material). With River Terrace Deposits, the embedment class without processing is taken from adjacent Section G as S4 (as the deposit was encountered as a coarse-grained soil > 12% fines). Made Ground, Head Deposits and London Clay are unsuitable for reuse as they are a fine-grained soil with liquid limit greater than 50% and high plasticity. White Chalk Subgroup has an embedment class as S1 or S2 using granular sidefill materials.

All the strata in Section F (superficial and bedrock) are highly / very aggressive towards ferrous metals.

9.2 Geo-environmental

The Phase 2 GI completed in Section F focused on three PSCs identified by the desk study; Albany Farm Historical Landfill (PSC 5) and two former pits (PSCs 22 and 24). Due to Section F route changes, the Phase 3B/3C GI focused on three PSCs identified by the desk study; Works - Crockerhill former Brickworks (PSC 1), Former Clay Pit (PSC 2) and a Former Chalk Pit (PSC 25). Additional Phase 3B/3C GI also targeted the footprint of the proposed AGP IPS-F footprint.

9.2.1 IPS-F

Phase 2 GI within the footprint of the proposed IPS-F compound (2F3504DS and 2F3505DS) targeted PSC 5 and, as such, additional GI was also carried out for Phase 3B/3C to further investigate ground conditions. A revised risk assessment for the site yielded a Moderate / Low risk via inhalation pathways for construction and maintenance works due to carbon dioxide concentrations exceeding both short and long-term WELs. As IPS-F is a permanent structure, a gas risk assessment was carried out and the proposed area was given a CS1 classification, which equates to a low gas risk to future property from gas ingress.

Although a drainage ditch is located approximately 15 m east of the DoL and likely to be draining to the River Wallington, a Low risk rating for impact to surface waters was recorded based on the findings of the GI, monitoring wells were dry during all monitoring occasions.

9.2.2 Section F DoL

The revised risk assessment for the PSCs, updated from the desk study with Phase 2 and Phase 3B/3C GI data, identified Moderate/Low risk ratings for all investigated locations for construction, maintenance workers, future site users either via direct contact, ingestion, inhalation of dusts or via inhalation pathways.

Moderate / Low risk ratings were identified for adjacent land users (farmland) at GI locations investigating PSC 1 (Works – Crockerhill former brickworks), PSC 2 (Pit -Clay) and the proposed locations of the trenchless crossing reception shafts at the River Wallington. This is based on the findings of COCs in groundwater and the potential for exposure during construction activities (without mitigation measures).

A Moderate / Low risk was identified for groundwater at GI locations investigating PSC 1 (Works - Crockerhill former brickworks) and trenchless crossing of River Wallington due to the exceedances of the GAC in groundwater. A Moderate / Low risk rating was also identified for groundwater at GI locations investigating PSC 22 (Pit-sand) and PSCs 24 and 25 (Pit -chalk) applying a conservative approach either due to the absence of soil leachate results, and/or where the location is within a groundwater source protection zone.

A Moderate / Low risk was identified for future onsite property/buildings or structures at the GI locations investigated at the proposed launch / reception pits of the trenchless crossing, based on the carbon dioxide exceedances. The proposed structures are unknown, so a conservative approach has been taken.

The soil leachate and groundwater results at the River Wallington trenchless crossing showed exceedances of GAC, however, the likely source of which is unknown. A Moderate / Low risk has been identified. This together with the ground gas data recorded at the trenchless crossings of the River Wallington (2F3502SA, 2F3503SA and) should be considered at the preconstruction phase in terms of risks to groundworkers in the planned launch / reception pits.

Therefore, all Section F PSCs investigated in Phase 2 and Phase 3B/3C GI, cannot be fully discounted without further assessment or mitigation of these potential contaminant linkages.

10 Recommendations

10.1 Geotechnical

Further ground investigation is recommended.
Section F GI locations are not representative of the whole approximate 3.6 km length of the route. The proposed route through Section F contains areas where River Terrace Deposits are found at the ground surface (based on BGS mapping); however, these areas and lithology have not been investigated in the current GI and therefore additional GI is recommended.

It is specifically recommended that:

- Additional GI along the route is performed to fully understand and characterise the soil required to be excavated / removed / reused at areas of different geology, and linear route locations
- Further detailed studies to identify locations of the solution pipes shown more accurately as the existing drawings cover a wide area over many acres/hectares.
- Caution is advised when constructing the proposed pipeline in Chalk areas, particularly the high-risk areas, and to be mindful of potentially unrecorded or unmapped cavities below ground affecting construction. Further details can be found within the desk study Section 3.2 produced by SSP (SSP, 2024).
- Further ground investigation is completed at the site of the IPS-F AGP site to fully understand the CIRIA chalk grading and distribution of Head Deposits.
- Where chalk is encountered at shallow levels across the route, it should be inspected by a qualified Geotechnical Engineer to assess the CIRIA grading, that would impact on compaction during construction.
- Resistivity testing is required more frequently across the route to better determine soil corrosivity
- Concrete aggressivity testing needs to conducted within London Clay Formation.
- Groundwater is understood on a wider scale, not only at the few isolated locations near the trenchless crossing at the River Wallington and in the northwest of the route.

Ground preparation
It is recommended that a processing plant should be used on site to screen out and remove the particles exceeding 40 mm within fine- and coarse-grained soil across the pipeline. Only material with embedment class of S4 or less are recommended to be used for as – dug soils surrounding semi-rigid pipes or the proposed 1200 mm ductile iron pipeline across the route.

10.2 Geo-environmental

Further Ground Investigation is recommended
PSCs 6 (Landfill – Albany Farm Historic) and PSC 15 (Infilled Land – Disturbed Ground) were not investigated during Phase 2 or Phase 3B/3C due to land access constraints. Both PSCs are situated within the current Section F DoL and should development occur within the footprint of these PSCs it is recommended that GI data be gathered and assessed to be able to quantify the potential risks associated.

GI location 3W8558SA was completed to investigate the ground conditions at PSC 1 (Works- Crockerhill Former Brickworks). Made ground comprising gravelly clay with gravels comprising of chalk, flint and rare brick fragments were encountered to 3.50 m bgl. Although no exceedances of soil GAC were recorded, exceedances in soil leachate and groundwater were recorded and it is therefore recommended that additional GI be completed to determine nature and extent of this Made Ground in this area and to include geo-environmental testing for PCOCs.

Made Ground comprising brick, timber fibres and fragments of metal and rubber was encountered to 1.5 m bgl at GI location 2F3500DS. This borehole was drilled in a former sand pit (PSC 22) approximately 30 m outside

of the DoL.. It is unconfirmed if Made Ground extends onto the DoL. Therefore further GI investigation is recommended to determine the nature and extent of materials.

The scope of Phase 2 and Phase 3B/3C GI works was to provide preliminary geo-environmental information about the nature of COCs at identified PSC areas. It is recommended that the contractor undertakes further assessment (and if necessary, ground investigation) to understand and comply with contaminated land, health & safety, waste classification and any other relevant guidance for:

- PSCs investigated in Phase 2 and Phase 3B/3C that require additional investigation to delineate contamination or allow suitable assessment;
- PSCs identified in the desk study but not investigated during Phase 2 and Phase 3B/3C;
- PSCs identified during subsequent phases of the Proposed Development as part of their construction phase works

Controlled waters monitoring pre-construction is recommended
Exceedances of the soil leachate and groundwater GAC protective of surface waters have been recorded from groundwater locations on both sides of the River Wallington trenchless crossing during the Phase 2 GI. Groundwater in this area may be in hydraulic continuity with the nearby River Wallington, which is identified as a sensitive receptor in the CSM. Additional monitoring of controlled waters is likely to be required pre-construction phase.

Conduct additional geo-environmental monitoring during construction
Recommendations for ground gas and groundwater monitoring / testing during the construction phase should be provided within the Construction Phase Environmental Management Plan.

Watching Briefs
Watching briefs should be in place during construction. Groundworkers should remain vigilant throughout construction, particularly within the vicinity of PSCs, and should visual and/or olfactory indicators of contamination (including asbestos) be encountered, works should cease in that area and advice be sought from a suitably qualified geo-environmental professional. Further testing and specialist advice may be required. This is particularly applicable to parts of Section F being constructed using open-cut excavation.

Stockpile Management
Stockpile material must be well managed and kept on an area of hardstanding located down gradient of surface water drainage that may potentially discharge to a watercourse. It is recommended that any stockpiled material is covered to prevent rainfall infiltration, run off, and leachate and dust generation. Stockpiles should be secured when not in use to prevent third party access.

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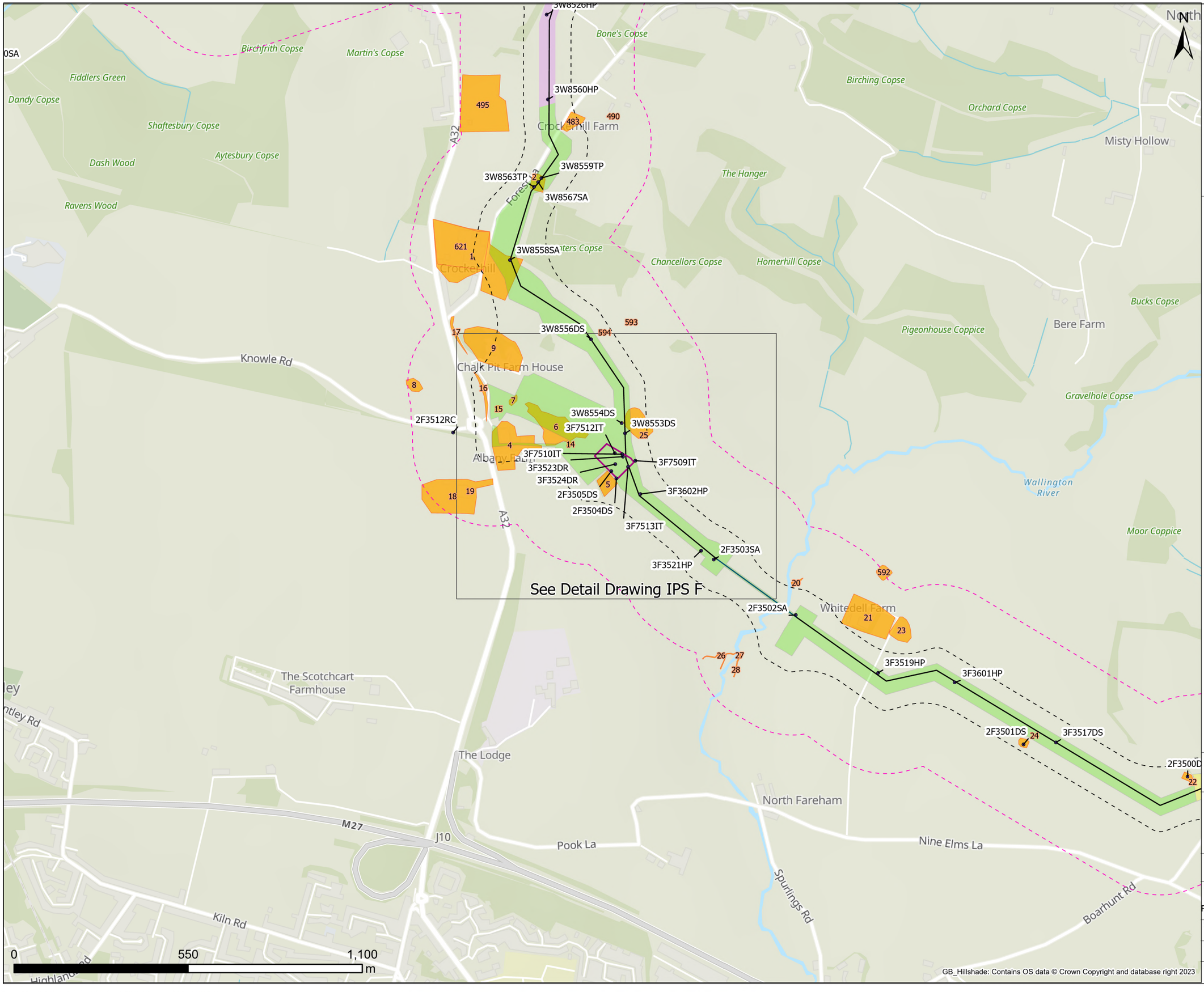
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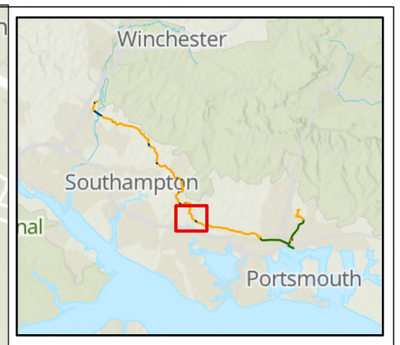
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Figures





Legend

- Ground Investigations

Name

- IPS F
- Draft Order Limits 50m buffer
- Draft Order Limits 250m buffer

GI Scoping Route

- Open cut
- Trenchless

Draft Order Limits Sections

- E
- F
- G
- Potential Sources of Contamination

Contains Southern Water preliminary data - All site locations and routes shown are preliminary only and subject to further site selection assessment and stakeholder consultation.

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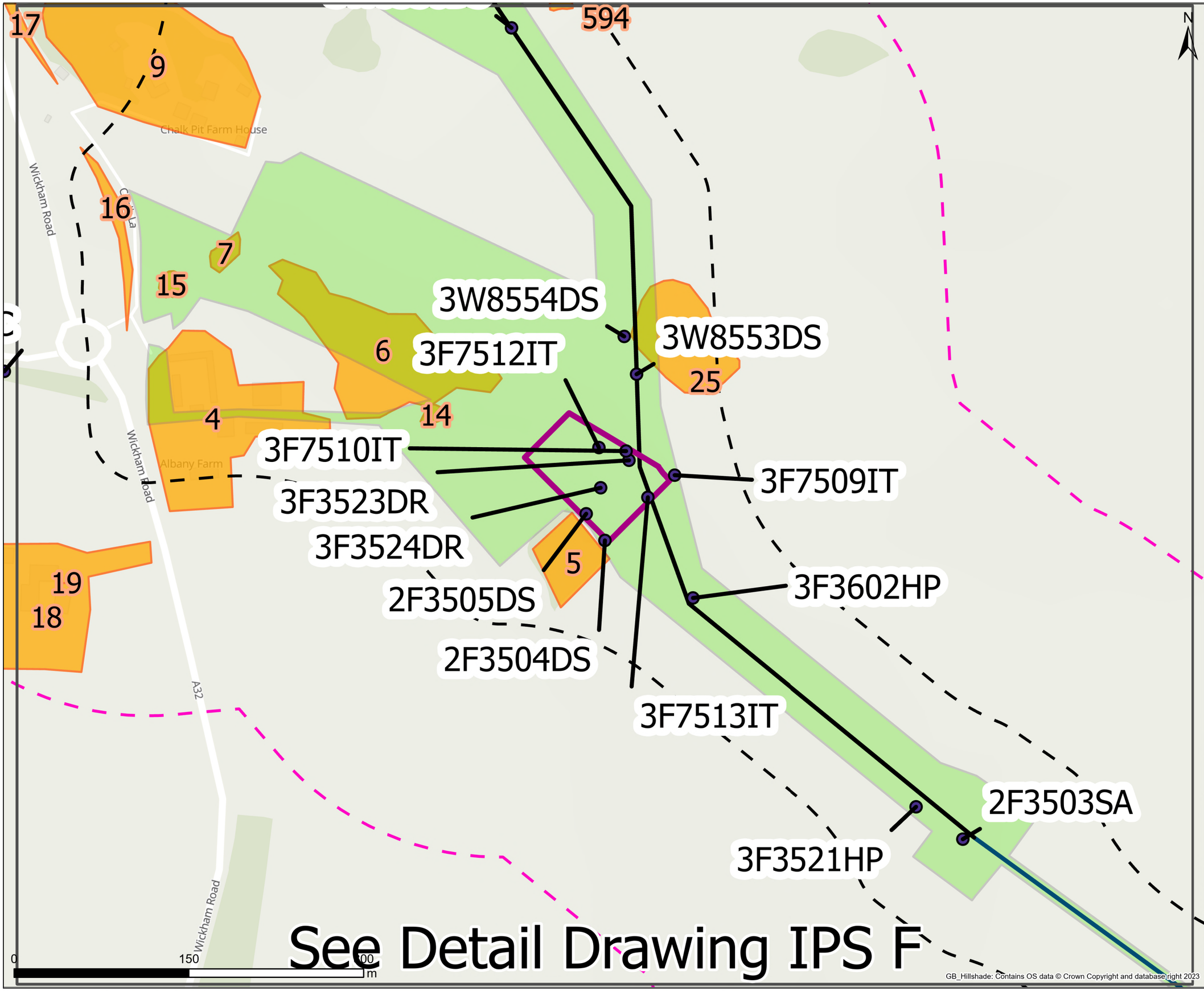
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Project Title: Water For Life Hampshire

Drawing Title: Section F
Phase 2 3B/C Ground Investigation Locations with PSCs

Scale	Date Drawn	Page	Sheet Size
1:11,000	04/03/2025	1.1	A3
Originator	Checker	Reviewer	Approver
SB	GS	AC	JH
Project No.			Revision
710166-SWS-XX-XX-SK-GE-00001			A

Document Path: C:\Southern Water\Hampshire Water for Life\Geo_MapSeries\GI_Scoping\GI_Scoping.aprx



Contains Southern Water preliminary data - All site locations and routes shown are preliminary only and subject to further site selection assessment and stakeholder consultation.

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Southern Water

Project Title: Water For Life Hampshire			
Drawing Title: Section IPS F (Detail) Phase 2 3B/C Ground Investigation Locations with PSCs			
Scale: 1:3,000	Date Drawn: 04/03/2025	Page: 1.1	Sheet Size: A3
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Project No.: 710166-SWS-XX-XX-SK-GE-00001			Revision: A

Document Path: C:\Southern Water\Hampshire Water for Life\Geo_MapSeries\GI_Scoping\GI_Scoping.aprx

PSC No.	Name	Source	Current	Dates	Description	Category	Section
1	Works - Crockerhill Brickworks	Groundsure, National Library of Scotland, ArcGIS Earth, Google Earth	Y	1868 - Present	1868 to 1939 brickfield including infilled ponds. 1939 to 1992 (last available map) Saw mills east of Forest Lane. 1999 to Present - 'Pinks' Industrial park / Welbourne Business Park	PSC & Infilled Land	F
2	Pit - Clay	NLS	N	1937-61 - 1949-70		Infilled Land	F
4	Farm - Albany Farm	National Library of Scotland, Historic Map 1856. Fareham and Gosport Council	Y	1856-1914 - Present	Area now a business centre, houses, a care home and offices. Local authority note timber furniture manufacture.	PSC	F
5	Landfill - Albany Farm Historic Landfill	Environment Agency, National Library of Scotland, Historic Map 1856	N	1856-1913 - 1949-89	Old chalk pit 1888-1913 (NLS),1949-70 (NLS) no longer labelled, markings remain. Landfill licence granted 1977 and shown in lower area until 1989.	Infilled Land	F
6	Landfill - Albany Farm Historic Landfill	Environment Agency, National Library of Scotland, Historic Map 1856	N	1977 - 1982	1892-1914 (NLS) - Old Chalk Pit. Inert backfill.	Infilled Land	F
7	Pit - Unspecified	National Library of Scotland, Historic Map 1856	N	1856 - 1965		Infilled Land	F
8	Pit - Sand	National Library of Scotland, Historic Map 1856	N	1856-1913 - 1937-61		Infilled Land	F
9	Pit - Chalk	National Library of Scotland, Fareham BC EHO, Historic Map 1856	Y	1856-1913 - 1949-70	1892-1913 (NLS) excavation markings still present 1949-92 (NLS). Chalk pit followed by farm use.	PSC & Infilled Land	F
10	Pit - Chalk	National Library of Scotland, Historic Map 1856	N	1856-1913 - 1949-78	Former pit and pond.	Infilled Land	F
11	Landfill - Heytesbury Farm Landfill	Environment Agency, National Library of Scotland / Fareham BC EHO	N	1856-1913 - 1949-70	Former clay pit. Visible on Historical 1956 Map, 1888-1913 (NLS),1949-70 (NLS) no longer labelled. First input 1980. Unknown last input. Local authority note - Waste treatment: landfill construction/demolition/builders waste.	Infilled Land	F
12	Pit - Various	Fareham Council EHO	N	Unknown	Chalk, gravel, clay pit	Infilled Land	F
14	Pit - Various	Fareham BC EHO	N	1856 - 1873	Chalk, gravel, clay pit	Infilled Land	F
15	Infilled Land - Disturbed Ground	Fareham BC EHO	N	Unknown	Unknown landfill/ Stockpiled Soil/ Raised land/ Reclaimed land/ Fly-tipping/Burnt waste - no evidence seen on historical maps.	PSC & Infilled Land	F
16	Embankment	Historic Map 1932	Y	1932 - 1987	Road embankment, road layout has changed in area.	PSC	F
17	Embankment	Historic Map 1958	N	1958 - 1992	Road embankment, layout of road has changed in area, road no longer extends up this far, although area still seems to be raised.	PSC	F
18	Waste Facility - Recycling and waste centre	Historic Map 1856, Google Earth	Y	1856 - Present	Charity Farm shown throughout Historical Maps until 1993. Current map shows area as a waste and recycling centre.	PSC	F
19	Infilled Land - Pond	Historic Map 1856	N	1856 - 1895		Infilled Land	F
20	Infilled Land - Drain	Historic Map 1856	N	1856 - 1910		Infilled Land	F
21	Farm - Whitedell Farm	Historic Maps 1856 - 1992 Google Earth 2024	Y	1856 - Present		PSC	F
22	Pit - Sand	Historic Map 1856	N	1856 - 1898		Infilled Land	F
23	Pit - Chalk	Historic Map 1873	N	1856 - 1985		Infilled Land	F
24	Pit - Chalk	Historic Map 1895	N	1895 - 1898		Infilled Land	F
25	Pit - Chalk	Historic Map 1897	N	1856 - 1985	Infilled Land, western part potentially crosses the pipeline route.	Infilled Land	F
26	Infilled Land - Channel	Historic Map 1868	N	1856 - 1910		Infilled Land	F
27	Infilled Land - Channel	Historic Map 1868	N	1856 - 1957		Infilled Land	F
28	Infilled Land - Channel	Historic Map 1868	N	1856 - 1957		Infilled Land	F
29	Electricity Sub Station (Small)	ArcGIS Earth / Google Earth	Y	1987 - Present		PSC	G
30	Infilled Land - Pond	National Library of Scotland	N	1868 - 1894		Infilled Land	G
31	Infilled Land - Pond	National Library of Scotland	N	1868 - 1938	Infilled by 1940.	Infilled Land	G
32	Farm - Cold Harbour Farm	National Library of Scotland, Google Earth	Y	1888 -1913 - Present		PSC	G
33	Garage - Drokes Farm Motor Company	Google Earth / ArcGIS Earth	Y	2017 - Present	2017 to Present (2023). Servicing, repairs and diagnostic.	PSC	G
34	Nursery	National Library of Scotland	Y	1949-70 - Present		PSC	G
35	Infilled Land - Pond	NLS	N	1888-1913 - 1999		Infilled Land	G
36	Pit - Gravel	National Library of Scotland	N	1892-1914 - 1937-61	Excavation marks visible 1937-61, no longer labelled, pipeline route no longer being passed through PSC.	Infilled Land	G
37	Pit - Gravel	National Library of Scotland	N	1868 - 1913		Infilled Land	G
38	Farm - Little Tapnage Farm	ArcGIS Earth / Google Earth	Y	2021 - Present	2021 Google Earth to Present.	PSC	G
39	Railway	National Library of Scotland	N	1909 - 1968	Appears to be dismantled by 1980. Area now a path.	PSC	G
40	Infilled Land - Pond	National Library of Scotland	N	1868-1897 - 1949-70		Infilled Land	G
41	Infilled Land - Pond	National Library of Scotland	N	1888 - 1994		Infilled Land	G
42	Hospital - Ravenswood	National Library of Scotland, Google Earth, Historic Map 1940	Y	1940-70 - Present		PSC	G
43	Embankment	Historic Map 1939	Y	1939 - Present		PSC	G
44	Embankment	Historic Map 1987	Y	1939 - Present		PSC	E
45	Pit - Gravel	Historic Map 1968	N	Pre-1868	Labelled as 'Gravel Pit Copse'; Shape seen in 1868 map and first labelled in 1888, no actual gravel pit confirmed.	Infilled Land	H
46	Pit - Various	Historic Map 1994, BGS Historical Mineral Planning Areas	N	1973 - 1994	Park Place - Sand and gravel surface mineral working (BGS) Licence granted 1972. Eastern corner pipeline passes through.	Infilled Land	G
49	Pit - Gravel	Historic Map 1895	N	1895 - 1938		Infilled Land	G
50	Infilled Land - Pond	Historic Map 1965	N	1965 - 1994		Infilled Land	G
51	Pit - Gravel	Historic Map 1895	N	1895 - 1938		Infilled Land	G
52	Pit - Gravel	Historic Map 1908	Y	1908 - Present	Pipeline no longer passes near PSC.	Infilled Land	G
53	Infilled Land - Pond	Historic Map 1868	N	1868 - 1994		Infilled Land	F
54	Infilled Land - Drain	Historic Map 1968	N	1868 - 1979	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
55	Infilled Land - Drain	Historic Map 1968	N	1868 - 1987	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
57	Infilled Land - Drain	Historic Map 1968	N	1868 -1980	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
58	Infilled Land - Drain	Historic Map 1968	N	1868 -1980	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
59	Pit - Sand	Historic Map 1868	N	1868 - 1938	Hospital built on top.	Infilled Land	G
60	Pit - Gravel	Historic Map 1895	N	1895 - 1938	Hospital built on top.	Infilled Land	G
62	Infilled Land - Drain	Historic Map 1868	N	1868 - 1994	Shown as a large channel in 1868map, no water shown in that area on ArcGIS Map, however channel outline is still visible on 1994 Map.	Infilled Land	G
64	Infilled Land - Drain	Historic Map 1868	N	1868 - 1895		Infilled Land	G
65	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
66	Infilled Land - Drain	Historic Map 1868	N	1868 - 1938		Infilled Land	G
67	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
68	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
69	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
70	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
71	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
72	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
73	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
74	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
75	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
76	Farm	Google Earth, Groundsure Historical Tanks layer	Y	Pre-1999 - Present	Tanks identified by Groundsure 1986-87.	PSC	H
77	Agricultural - Nursery / Farm	Google Earth	Y	1987 - Present	Possible greenhouses adjacent to corridor.	PSC	H
78	Infilled Land - Disturbed Ground	Google Earth	Y	2005 - Present	Ground shown as disturbed with soil and waste heaps. Land also used a farm yard.	PSC & Infilled Land	H
79	Farm	Google Earth	Y	1999 - Present	Small scale activities, no farm name.	PSC	H
80	Tank	Historic Map 1989	N	1986 - 2007		PSC	H

PSC No.	Name	Source	Current	Dates	Description	Category	Section
81	Tank	Historic Map 1989	N	1986 - 1994		PSC	H
82	Pit - Sand	Historic Map 1939	N	1939 - 1957		Infilled Land	H
83	Pit - Sand	Historic Map 1939	N	1939 - 1968		Infilled Land	H
84	Infilled Land - Pond	Historic Map 1868	N	1868 - 1909	No labels on map, however older maps potentially show a pit or an infilled pond.	PSC	H
85	Farm - Westland Farm	Historic Map 1994	Y	1994 - Present		PSC	H
86	Farm	Google Earth	Y	2014 - Present	Farm building.	PSC	H
87	Infilled Land - Swimming pool	Historic Map 1965	N	1965 - 1987		Infilled Land	H
88	Garage	Historic Map 1965, Winchester County Council, Groundsure	Y	1965 - Present		PSC	H
89	Pit - Sand	Historic Map 1965	N	1965 - 1968		Infilled Land	H
90	Landfill - Shirrel Heath Sand Pit	Historic Map 1987, Environment Agency	N	1976 - 1987	Surrounding Old sand pit site. Licence issue11/1976. Labelled as disused workings on 1987 Map. Input - inert, commercial waste.	Infilled Land	H
91	Infilled Land - Pond	Historic Map 1965	N	1965 - 1994	Partially infilled, current site has a river running through the middle. Date of infill unknown, visible on most recent historical map of area (1993) but not on current Google Earth imagery.	Infilled Land	H
92	Garage - Winkworths Garage	Historic Map 1986	Y	1986 - Present	Vehicle repair, maintenance and MOT services.	PSC	H
94	Farm - Woodman's Farm	National Library of Scotland	N	1888 - 1913		PSC	J
95	Pit - Sand	National Library of Scotland	N	1895 - 1896		Infilled Land	J
96	Industrial Estate - Woodmans Farm	Google Earth	Y	1993 - Present	On the former footprint of Woodmans Farm. Units include several vehicle maintenance garages, metal finisher and welding activities and air condition repair. Tank shown in north of site on 1993 historical map.	PSC	J
97	Landfill - Ash House Farm Landfill	National Library of Scotland	N	1868 - 1991		Infilled Land	J
98	Pit - Sand	National Library of Scotland, Historical Map 1968	N	1965 -1968		Infilled Land	J
99	Farm - Unknown	Google Earth	Y	1999 - Present	Farm or possible horse stable.	PSC	J
100	Farm - Five Oaks Farm	National Library of Scotland	Y	Present		PSC	J
101	Farm - Sandy Hill Farm	Historical Map 1868	N	1868 - 1897	From Sandy Hill Farm to Sandy Hill House in next map, 1909.	PSC	J
102	Pit - Sand	Historic Map 1869	N	1869 - 1897		Infilled Land	J
103	Pit - Sand	Historic Map 1895	N	1895 - 1957	LiDAR shows ground level lower than surrounding area. Potentially not infilled.	Infilled Land	H
104	Pit - Sand	Groundsure Historical Maps. BGS mineral planning areas and worked ground layer	N	1965 - 1987	Phillimore Sand pit 1965. 1987 map labels whole area as disused workings.	Infilled Land	J
106	Pit - Gravel	Historic Map 1869	N	1868 - 1869	Only visible on two maps. Not shown on 1895 map.	Infilled Land	K
107	Infilled Land - Marshland	Historical Map 1964	N	1964 - 1993	Not visible on current aerial photography. May still be present.	Infilled Land	K
108	Infilled Land - Marshland	Historical Map 1964	N	1964 - 1993,	Potentially infilled by 1999.	Infilled Land	K
109	Infilled Land - Drain	Historical Map 1964	N	1964 - 1993		Infilled Land	K
114	Wastewater Treatment Works - Pumping Station	Historic Map 1994	Y	1985 - Present		PSC	J
115	Infilled Land - Drain	Historic Map 1965	N	1965	Exact location and size unclear. Label 'drain' present in 1965 map only.	Infilled Land	J
116	Embankment - Park Lug	Historic Map 1964, Hants.gov.uk	Y	1964 - Present	Historical map appear to show a tree lined artificially raised land to form an embankment. Embankment identified as Park Lug on historical maps. Hants.gov.uk describes Park Lug as a boundary for a medieval deer park.	PSC	J
117	Farm - Brooklands Farm	Historic Map 1868	Y	1868 - Present	Lodge Farm/Brooklands farm currently residential housing	PSC	K
118	Infilled Land - Marshland	National Library of Scotland	N	1840-1880		Infilled Land	K
119	Infilled Land - Channel	Historic Map 1869	N	1868 - 1957		Infilled Land	K
121	Infilled Land - Channel	Historic Map 1869	N	1868 - 1985		Infilled Land	K
122	Infilled Land - Channel	Historic Map 1869	N	1868 - 1896		Infilled Land	K
123	Infilled Land - Channel	Historic Map 1869	N	1868 - 1957	Partially infilled at different times, channel is last visible on 1957 map.	Infilled Land	K
125	Railway	National Library of Scotland	N	1868 - 1964	Marked as disused from 1964.	PSC	K
126	Pit - Sand	Historic Map 1957	N	1957	Only visible on 1957 Map. Not visible on 1910 or 1965 maps.	Infilled Land	J
127	Infilled Land - Pond	Historic Map 1868	N	1868 - 1909		Infilled Land	E
128	Infilled Land - Pond	Historic Map 1909	N	1896 - 1957		Infilled Land	J
129	Farm - Dalecote Farm	Historic Map 1965	Y	1965 - Present		PSC	J
130	Farm - Treefield Farm	Historic Map 1868	Y	1957 - Present		PSC	J
131	Agricultural - Orchard	ArcGIS Earth	Y	1868 - Present		PSC	K
132	Infilled Land - Pond	National Library of Scotland	N	1868 - 1957	Infilled by 1964. Land drain still present.	Infilled Land	K
133	Infilled land - Artificial Deposit	British Geological Survey	N	Unknown	BGS Artificial Ground	Infilled Land	K
134	Infilled Land - Pond	National Library of Scotland	N	1888 - 1914		Infilled Land	K
135	Farm - Winterhill Farm	National Library of Scotland, ArcGIS Earth	N	1888 - 1913		PSC	K
136	Garage	Google Earth	Y	Present		PSC	K
137	Works - Brick works	NLS	N	1888-1913 - 1949-70	1937-61 Works.	PSC & Infilled Land	K
138	Farm - Trullingham / Laurel Farm	NLS / Google Earth	Y	1868 - Present	Shown as Trullingham on maps from 1888-1913 to 1949-70. Laurel Farm not shown until 1949-70.	PSC	K
139	Infilled Land - Landscaped bank	National Library of Scotland	N	1896 - 1993		Infilled Land	K
140	Works - Brick works	Groundsure Winchester City Council	N	1868 - 1888	Recorded as a Brick Field with Kilns on the 1885 map. No longer recorded as a Brick Field on the 1896 map and forms the rear garden of a residential property.	Infilled Land	K
143	Farm - Merry Orchard Farm	Historic Map 1964	Y	1964 - Present	Cherry Orchard Farm/Merry, possibly part of Merrytree Farm/Merry Orchard Farm.	PSC	K
146	Infilled Land - Pond	Historic Map 1993	N	1993 - 2000	Only visible on 1993 map.	Infilled Land	K
148	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	K
149	Infilled Land - Marshland	Historic Map 1964	Y	1964 - Present		Infilled Land	K
150	Farm - Tangier Farm	Historic Map 1868	Y	1868 - Present	Tangier Farm.	PSC	K
151	Infilled Land - Pond	National Library of Scotland	N	1888-1913 - 1947-1970		Infilled Land	L
152	Works - Brick works	National Library of Scotland, Winchester CC EHO	N	1892-1914	The 1940 plan records the site as disused with the south eastern area of the site divided up into fields. Post 1940 site is recorded as open ground with ponds. Site developed into housing post 1963 into housing.	PSC & Infilled Land	L
153	Landfill - Sand pit	National Library of Scotland, Winchester CC EHO	N	1892-1914 - 1945-1965		Infilled Land	L
154	Embankment	National Library of Scotland	Y	1888 - Present		PSC	L
155	Infilled Land - Made Ground (BGS)	National Library of Scotland, BGS	Y	1868 - Present		PSC	L
156	Garage	Google Maps	Y	Present	Vehicle maintenance.	PSC	L
157	Industrial Estate - Simba Business Park	Google Maps	Y	Present	Business park (fuel, workshops, general trade).	PSC	L
158	Garage	Google Earth	Y	Present	Fuel store / vehicle repair.	PSC	L
159	Waste Facility - Recycling / Scrap Yard	ArcGIS Earth	Y	Present		PSC	L
160	Farm - Rockery Farm	Google Earth	Y	Present		PSC	L
161	Worked Ground	Google Earth	N	2019 - 2020		PSC	L
162	Farm - Lowhill Farm	ArcGIS Earth	Y	1868 - Present		PSC	L
163	Farm - Ashbourne Stables	Google Earth	Y	1993 - Present		PSC	L
164	Fuel Filling Station	Historical Map 1963, Winchester City Council	N	1963 - 2010	Poor map coverage post 1963. The 1983 map shows the garage and a Coach House developed on the site, 1989 only labels the coach house.	PSC	L
165	Pit - Gravel	Historic Map 1868	N	1868 - 1957		Infilled Land	L
166	Pit - Gravel	Historic Map 1996	N	1888 - 1957	Replaced with houses.	Infilled Land	L

PSC No.	Name	Source	Current	Dates	Description	Category	Section
167	Works - Old Brick Yard	Historic Map 1868, Groundsure Historical Land Use layer	N	1868 - 1968	According to 2024 Groundsure Reports, unspecified pits and ground working are also associated with this PSC.	PSC & Infilled Land	L
168	Works - Brick works	Historic Map 1868	N	1868 - 1869	Brick Works, Clay Pits, Kilns.	PSC & Infilled Land	L
170	Infilled Land - Swimming Pool	Historic Map 1937	N	1937 - 1994		PSC & Infilled Land	L
171	Infilled Land - Pond	Historic Map 1989, ArcGIS Map	Y	1989 - Present	Large areas have been infilled and a smaller pond now exists here.	Infilled Land	L
172	Infilled Land - Pond	Historic Map 1989, ArcGIS Map	Y	1989 - Present	Large areas have been infilled and a smaller pond now exists here.	Infilled Land	L
173	Infilled Land - Pond	Historic Map 1989	N	1989 - 1993		Infilled Land	L
174	Infilled Land - Drain	Historic Map 1963	N	1963 - 1995		Infilled Land	L
175	Infilled Land - Drain	Historic Map 1963, ArcGIS Map	N	1868 - 1993	Only labelled as a drain in maps 1963 & 1968; maps as far back as 1868 show shape of the watercourse without the label, modern map shows a smaller watercourse crossing the western section. Eastern section potentially re-aligned to electricity pylon route	Infilled Land	L
177	Works - Unknown	Historic Map 1963	N	1963 - 1968	Labelled as 'works' in 1963 map, structures still visible in 1968 map, but not before 1963 or 1968.	PSC	L
178	Works - Unknown	Historic Map 1963	N	1963 - 1968	Labelled as 'works' in 1963 map, structures visible in 1968 map, but not before 1963 or after 1968 maps.	PSC	L
179	Pit - Gravel	Historic Map 1939	N	1939	Only visible in 1939 map.	Infilled Land	L
180	Pit - Gravel	Historic Map 1939	N	1937	Only visible in 1937 map.	Infilled Land	L
181	Pit - Gravel	Historic Map 1909	N	1909 - 1910		Infilled Land	L
182	Farm - Tee's Farm	Historic Map 1868	N	1868 - 1939		PSC	L
183	Infilled Land - Pond	Historic Map 1868	N	1868 - 1984		Infilled Land	L
184	Infilled Land - Pond	Historic Map 1868	N	1868 - 1896.		Infilled Land	L
185	Infilled Land - Pond	Historic Map 1868	N	1868 - 1963		Infilled Land	L
186	Farm - Upper Bambridge Farm	Historic Map 1968	Y	1868 - Present		PSC	L
187	Farm - Hill's Farm	Historic Map 1939	N	1868 - 1984		PSC	L
188	Infilled Land - Pond	Historic Map 1957	N	1957	Only visible in 1957 map.	Infilled Land	L
189	Infilled Land - Pond	Historic Map 1963	N	1963 - 1968		Infilled Land	L
190	Infilled Land - Pond	Historic Map 1963	N	1963	Only visible in 1963 map.	Infilled Land	L
191	Infilled Land - Pond	Historic Map 1868	N	1868 - 1937		Infilled Land	L
192	Tank	Historic Map 1963	N	1963	Only visible in 1963 map.	PSC	L
193	Farm - Leylands Farm	Historic Map 1968	N	1868 - 1968		PSC	L
196	Infilled Land - Pond	Historic Map 1868	N	1868 - 1939		Infilled Land	L
197	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	L
198	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	L
199	Infilled Land - Pond	Historic Map 1994	N	1992 - 2000	Date of infill unknown. Pond shown on 1994 map, no longer shown on modern map.	Infilled Land	L
201	Works - Depot	ArcGIS Earth	Y	Present	Metal warehouse frame and outdoor storage area with equipment.	PSC	E
202	Infilled Land - Lagoon	National Library of Scotland	N	1963 - Present		Infilled Land	M
204	Railway	Google Maps	Y	1868 - Present		PSC	M
206	Infilled Land - Pond	NLS, ArcGIS Map, Historic Map 1963	N	1963 - 1984	Pond size has changed through maps, notably from 1968 map, extended in some areas and infilled in others.	Infilled Land	M
208	Water Works	Historic Map 1888, ArcGIS Earth	Y	1888 - Present	First classed as Water works; then Sewage Works and sewage farms. Site structures include sewerage septic-tanks and filter beds.	PSC	M
209	Landfill - Bugle Farm Landfill	Groundsure Historical Maps, Environment Agency	N	1937 - 1963	Extraction of alluvial sediments (sand, stone, clay, peat, marl and gravel), previously a farm. No information on first last input or waste type from Environment Agency. SSP 2023 site visit did not find evidence of landfilling.	Infilled Land	M
210	Infilled Land - Pond	Historic Map 1963	N	1963	Infilled Pond, turns into drainage area.	Infilled Land	M
214	Landfill - Brambridge Landfill	Historic Map 1957, BGS, Hampshire County Council	N	1957	Former sand and gravel pit, Made Ground (BGS). Local authority records note 'Gas risk - no info, permeability - high'.	Infilled Land	M
215	Infilled Land - Pond	Historic Map 1963	N	1963 - 1999	Pond has changed in size over time.	Infilled Land	M
216	Infilled Land - Drain	Historic Map 1963	N	1963	Only labelled on 1963 map, present day northern section seems to now have a pond.	Infilled Land	M
217	Infilled Land - Pond	Historic Map 1963	N	1963	Watercourses still present. Pond shown until last historic map in 1993.	Infilled Land	M
218	Water Works - Pumping, Treatment, Tanks	Historic Map 1939	Y	1939 - 1963	Disused Pumping Station, Waterworks, Tanks. Site still present on 1993 map. Outline still present on 2022 Google earth, but only labelled on historical map up to 1963.	PSC	E
219	Infilled Land - Drain	Historic Map 1963	N	1963 - 1968		Infilled Land	M
220	Water Works - Filter beds	Historic Map 1937	N	1937 - 1957		PSC	M
221	Infilled Land - Drain	Historic Map 1963	N	1895 - 1980	Feature only labelled as a drain in 1963 map, however structure can be seen as far back as the 1895 map.	Infilled Land	E
222	Infilled Land - Drain	Historic Map 1963	N	1869 - 1980	Feature only labelled as a drain in 1963 Map, however structure can be seen as far back as the 1869 map.	Infilled Land	E
223	Infilled Land - Drain	Historic Map 1963	N	1963	Only visible in 1963 map.	Infilled Land	E
224	Infilled Land - Drain	Historic Map 1963	N	1908 - 1980	Drain extends further SE, however that appears to still be filled with water. Feature only labelled as a drain in 1963 Map, however structure can be seen as far back as the 1908 map	Infilled Land	E
225	Infilled Land - Sluice	Historic Map 1896	N	1869 - 1896		Infilled Land	M
226	Infilled Land - Channel	Historic Map 1896	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
227	Infilled Land - Channel	Historic Map 1869	N	1869 - 1957		Infilled Land	E
228	Infilled Land - Channel	Historic Map 1869	N	1869 - 1909		Infilled Land	M
229	Infilled Land - Channel	Historic Map 1869	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
230	Infilled Land - Channel	Historic Map 1869	N	1869 - 1957		Infilled Land	E
231	Infilled Land - Channel	Historic Map 1896	N	1869 - 1909		Infilled Land	M
232	Infilled Land - Channel	Historic Map 1896	N	1869 - 1968		Infilled Land	E
233	Infilled Land - Pond	Historic Map 1869	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
234	Infilled Land - Channel	Historic Map 1870	N	1870 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	M
235	Infilled Land - Channel	Historic Map 1870	N	1870 - 1957		Infilled Land	M
236	Infilled Land - Channel	Historic Map 1870	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
237	Infilled Land - Drain	Historic Map 1963	N	1963 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
238	Infilled Land - Drain	Historic Map 1963	N	1957 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	M
239	Infilled Land - Drain	Historic Map 1993	N	1932 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
240	Infilled Land - Drain	Historic Map 1958	N	1869 - 1987		Infilled Land	E
241	Infilled Land - Drain	Historic Map 1958	N	1869 - 1987		Infilled Land	E
242	Infilled Land - Drain	Historic Map 1958	N	1958 - 1987		Infilled Land	E
243	Farm - Bugle Farm	Historic Map 1968	Y	1968 - Present		PSC	E
256	Infilled Land - Pond	Historic Map 1993	N	1896-1993		Infilled Land	K
257	Infilled Land - Tank	Historic Map 1994	N	1994	Former tank, now part of a nursery (agricultural).	PSC & Infilled Land	G
258	Farm - Prior's Holds Farms	NLS	Y	1888-1913 - Present		PSC	E
259	Farm	NLS	Y	Pre-1999 - Present		PSC	E
260	Pit - Gravel	National Library of Scotland	N	1888 - 1913		Infilled Land	E
261	Farm - Heath Farm	Google Earth	Y	Present		PSC	E
262	Pit - Unspecified	National Library of Scotland	N	1888 - 1970	Local authority suggest pit present in 1878.	Infilled Land	E

PSC No.	Name	Source	Current	Dates	Description	Category	Section
263	Farm - Pigeionhouse Farm	National Library of Scotland	N	1856-1913 - 1949-70	Currently residential property.	PSC	E
264	Pit - Chalk	National Library of Scotland	N	1856-1913 - 1949-70		Infilled Land	E
265	Infilled Land - Pond	National Library of Scotland	N	1856-1931 - 1949-70		Infilled Land	E
266	Worked Ground	National Library of Scotland	N	1937-61 - 1949-70	1937-61 unspecified buildings.1949-70 (NLS) unspecified heaps. Area identified by local authority as a former anti-aircraft battery during 2nd world war.	PSC	E
267	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1949-70		Infilled Land	E
268	Pit - Chalk	National Library of Scotland	N	1856-1913 - 1937-61		Infilled Land	E
269	Pit - Chalk	National Library of Scotland	N	1908 - 1913	Local authority suggest pit present in 1873.	Infilled Land	E
270	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1949-70		Infilled Land	E
271	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1937-61		Infilled Land	E
273	Water Works - Reservoir	National Library of Scotland	N	1938 - 1951	Reservoir(Portsmouth Water Works).	PSC	E
274	Infilled Land - Pond	National Library of Scotland	N	1937-61 - 1949-70		Infilled Land	E
275	Pit - Chalk	Historic Map 1860	N	1856 - 1980		Infilled Land	E
276	Pit - Chalk	Historic Map 1869	N	1856 - 1980		Infilled Land	E
277	Pit - Chalk	Historic Map 1869	N	1856 - 1978		Infilled Land	E
278	Pit - Chalk	Historic Map 1869, Groundsure Historical Industrial Land Uses layer	N	1856 - 1957		Infilled Land	E
279	Works - Kiln	Historic Map 1869	N	1869 - 1957		PSC	E
280	Infilled Land - Pond	Historic Map 1856	N	1856 - 1897		Infilled Land	E
281	Pit - Chalk	Historic Map 1873	N	1873 - 1980		Infilled Land	E
282	Works - Kiln	Historic Map 1856	N	1856 - 1957		PSC	E
283	Pit - Chalk	Historic Map 1856	N	1856 - 1993		Infilled Land	E
284	Pit - Chalk	Historic Map 1856	N	1856 - 1895		Infilled Land	E
285	Pit - Chalk	Historic Map 1856	N	1856 - 1873		Infilled Land	E
286	Infilled Land - Well	Historic Map 1868	N	1868 - 1965		Infilled Land	E
287	Pit - Chalk	Historic Map 1873	N	1873 - 1978		Infilled Land	E
288	Pit - Chalk	Historic Map 1895	N	1895 - 1980		Infilled Land	E
289	Pit - Chalk	Historic Map 1895	N	1895 - 1978		Infilled Land	E
290	Pit - Chalk	Historic Map 1895	N	1895 - 1957		Infilled Land	E
291	Pit - Chalk	Historic Map 1895	N	1895 - 1993		Infilled Land	E
292	Pit - Chalk	Historic Map 1895	N	1895 - 1941		Infilled Land	E
293	Pit - Chalk	Historic Map 1895	N	1895 - 1908		Infilled Land	E
294	Pit - Chalk	Historic Map 1897	N	1897 - 1972		Infilled Land	E
295	Pit - Chalk	Historic Map 1909	N	1909 - 1957		Infilled Land	E
296	Infilled Land - Pond	Historic Map 1909	N	1868 - 1957		Infilled Land	E
297	Military - Fort Widley	Historic Map 1963	Y	1850 - 1972	Various uses. Last military use 1972. See Zeticia Report P14032-24-R10 Site E. Sold to Portsmouth Council 1972.	Military	E
298	Farm - New Barns Farm	Historic Map 1968	Y	1968 - Present		PSC	E
299	Infilled Land - Pond	National Library of Scotland	N	1860 - 1913		Infilled Land	D
300	Pit - Chalk	National Library of Scotland	N	1888 - 1913		Infilled Land	D
301	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914		Infilled Land	D
302	Pit - Chalk	National Library of Scotland, Havant Borough Council	N	1866 - 1980	Known or suspected filled ground.	Infilled Land	D
303	Pit - Chalk	National Library of Scotland	N	1888 - 1913		Infilled Land	D
304	Military - Farlington Redoubt	https://www.heritagegateway.org.uk/Gateway/. Zetica Detailed UXO report.	N	1860s - 1991	1860s - Farlington Redoubt, former barracks. Chalk pit 1931 - 1991. Chalk pit used as firing range during 1944.	Infilled Land	D
305	Waste Facility - Physical Treatment Facility	Google Earth	Y	Present	L&S Waste Management. EA Permit Number - DP3295HN, A16 : Physical Treatment Facility.	PSC	D
306	Pit - Chalk	National Library of Scotland	N	1860 - 1913	Former quarry	Infilled Land	D
307	Water Works - Treatment Works	Groundsure, Google Earth	Y	1931 - Present	Filter beds shown in the northern portion of the map. Filter tanks also shown on maps.	PSC	D
308	Water Works - Reservoir	National Library of Scotland	N	1897 - Present		PSC	D
310	Garage	Google Earth	Y	Present	Tyre repair / replacement garage.	PSC	E
311	Pit - Chalk	Historic Map 1859	N	1859 - 1932	Labelled 'old chalk pit' on 1859 map. Shown as 'Old chalk pit' and 'Collyer's Pit' on 1897 map buildings in the central area. Cottages shown by 1951.	Infilled Land	D
313	Pit - Chalk	National Library of Scotland	N	1859 - 1913	Eastern part extends across pipeline route.	Infilled Land	D
314	Pit - Unspecified	National Library of Scotland	N	1860-1913 - 1949-1970	Labelled 'The Dell'	Infilled Land	D
315	Infilled Land - Pond	National Library of Scotland	N	1869 - 1914		Infilled Land	D
316	Farm - Highbank Farm	National Library of Scotland	N	1970 - 1973		PSC	D
317	Infilled Land - Pond	National Library of Scotland	N	1888 - 1973		Infilled Land	D
318	Infilled Land - Pond	National Library of Scotland	N	1860 - 1913		Infilled Land	D
319	Water Works - Reservoir	National Library of Scotland	N	1897 - 1991	Reservoir(Portsmouth Water Works).	Infilled Land	D
320	Railway - Portsdown & Horndean (Tram)	Historic Map 1910, Wikipedia	N	1903 - 1935	Portsdown & Horndean Light railway (tram).	PSC	D
321	Electricity Sub Station (Small)	ArcGIS Earth	Y	1960 - Present		PSC	D
322	Pit - Chalk	Historic Map 1859	N	1859 - 1995		Infilled Land	D
323	Pit - Chalk	Historic Map 1859	N	1859 - 1971		Infilled Land	D
324	Pit - Chalk	Historic Map 1859	N	1859 - 1963		Infilled Land	E
325	Pit - Clay	Historic Map 1860, Havant Borough Council	N	1860 - 1907	Known or suspected Made Ground (local authority records).	Infilled Land	D
326	Pit - Sand	Historic Map 1860, Environment Agency, Havant Borough Council	N	1860 - 1960	Privett Road Sand Pit. Input data and type unknown.	Infilled Land	D
327	Infilled Land - Pond	Historic Map 1860	N	1860 - 1991		Infilled Land	D
328	Infilled Land - Pond	Historic Map 1860	N	1860 - 1869		Infilled Land	D
329	Pit - Chalk	Historic Map 1866	N	1866 - 1969		Infilled Land	D
330	Pit - Chalk	Historic Map 1866, Havant Borough Council	N	1866 - 1897	Known or suspected filled ground (local authority records).	Infilled Land	D
331	Pit - Unspecified	Historic Map 1868	N	1868 - 1897	Davis's Grave / Beris's Grave	Infilled Land	D
332	Infilled Land - Pond	Historic Map 1895	N	1895 - 1937		Infilled Land	D
333	Infilled Land - Pond	Historic Map 1895	N	1895 - Present		Infilled Land	D
334	Infilled Land - Pond	Historic Map 1895	N	1895 - 1930		Infilled Land	D
335	Infilled Land - Pond	Historic Map 1895	N	1895 - 1937		Infilled Land	D
336	Pit - Gravel	Historic Map 1897, Havant Borough Council, Groundsure Historical Industrial Use layer	N	1897 - 1930	Known or suspected filled ground (local authority records).	Infilled Land	D
337	Infilled Land - Pond	Historic Map 1898	N	1898 - 1907		Infilled Land	D
338	Pit - Sand	Historic Map 1930	N	1930 - 1937		Infilled Land	D
339	Pit - Sand	Historic Map 1930	N	1930 - 1952		Infilled Land	D

PSC No.	Name	Source	Current	Dates	Description	Category	Section
340	Military - Fort Purbrook	Historic Map 1932	Y	1861 - 1968	Various uses. Last military use 1968. See Zeticia Detailed UXO Report P14032-24-R11, D Site.	Military	D
341	Agricultural - Nursery	Historic Map 1937	N	1937 - 1963		PSC	D
344	Water Works	Historic Map 1950	Y	1950 - Present	Drain (covered).	PSC	D
345	Infilled Land - Drain	Historic Map 1950	N	1950 - 1993	Drain (covered).	Infilled Land	D
346	Infilled Land - Drain	Historic Map 1950	N	1950 - 1993		Infilled Land	D
347	Infilled Land - Drain	Historic Map 1950	N	1950 - 1973		Infilled Land	D
348	Infilled Land - Drain	Historic Map 1950	N	1950 - 1973		Infilled Land	D
349	Electricity Sub Station (Small)	Historic Map 1951	Y	1951 - Present		PSC	D
350	Infilled Land - Pond	Historic Map 1952	N	1952 - 1959		Infilled Land	D
351	Infilled Land - Drain	Historic Map 1960	N	1960 - 1979		Infilled Land	D
352	Farm - Highbank Farm	Historic Map 1960	N	1960 - 1973		PSC	D
353	Infilled Land - Pond	Historic Map 1960	N	1960 - 1973		Infilled Land	E
354	Infilled Land - Drain	Historic Map 1960	N	1960 - 1975		Infilled Land	E
355	Infilled Land - Drain	Historic Map 1960	Y	1960 - Present	Looks to be covered but still mapped. Possibly realigned but Groundsure show a watercourse in this location by woodland	Infilled Land	E
356	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1982	Swimming Pool.	Infilled Land	D
357	Electricity Sub Station (Small)	Historic Map 1968	Y	1968 - Present		PSC	D
358	Water Works	Historic Map 1969	Y	1969 - Present	Reservoir (Covered).	Infilled Land	D E
359	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1973	Swimming Pool.	Infilled Land	D
360	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1973	Swimming Pool.	Infilled Land	D
361	Pit - Chalk	Historic Map 1969	N	1859 - 1980	Northern portion crosses pipeline route.	Infilled Land	D
363	Electricity Sub Station (Small)	Historic Map 1971	Y	1971 - Present		PSC	D
364	Water Works	Historic Map 1973	N	1973	Tank.	PSC	D
365	Water Works	Historic Map 1973	N	1973 - 1991		PSC	D
366	Water Works - Reservoir	Historic Map 1991	Y	1991 - Present	Covered Reservoir.	Infilled Land	D
367	Pit - Chalk	Historic Map 1993	N	1991 - Present	Potentially Infilled.	Infilled Land	D E
368	Infilled Land - Marshland	Historic Map 1993	Y	1993 - Present		Infilled Land	E
369	Infilled Land - Marshland	Historic Map 1993	Y	1993 - Present		Infilled Land	E
370	Infilled Land - Made Ground (BGS)	Historic Map 1866, Havant Borough Council	N	1866 - 1974	Potential infill with Earth Spoils, Domestic Refuse, Incinerator Ash (local authority records).	Infilled Land	WRP (C), Budds Farm to WRP (C)
372	Infilled Land - Marshland	Historic Map 1866	N	1866 - 1993	Broad Marsh.	Infilled Land	WRP (C), Budds Farm to WRP (C), D
375	Infilled Land - Watercourse	Historic Map 1867	N	1863 - 1969	Former Hermitage Stream to Storehouse Lake.	Infilled Land	WRP (C), Budds Farm to WRP (C)
378	Wastewater Treatment Works - Budds Farm	Historic Map 1969	Y	1969 - Present	Budd's Farm Sewage Works.	PSC	Budds Farm (C), Budds Farm to WRP (C)
379	Wastewater Treatment Works - Lagoons	Historic Map 1969	N	1969 - 1991	Sewage Sludge.	Infilled Land	Budds Farm (C), Budds Farm to WRP (C)
381	Works - Aggregate	Historic Map 1991	Y	1991 - Present	Aggregate works currently owned by Tarmac. Hanson ready mixed concrete plant located on site.	PSC	Budds Farm to WRP (C)
382	Works	Google Earth, Historic Map 1971, Havant Borough Council	Y	1958 - Present	Garage / Depot / Works / Factory. Area of known or suspected filled ground (local authority records).	PSC	WRP to Havant Thicket Reservoir (B)
383	Railway - Building and siding	National Library of Scotland	N	1892 - 1914	Historical Maps do not detail use. Possibly for storage.	PSC	WRP to Havant Thicket Reservoir (B)
385	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914	In proposed tunnel area.	Infilled Land	WRP to Havant Thicket Reservoir (B)
386	Infilled Land - Watercourse	National Library of Scotland	N	1888 - 1913		Infilled Land	WRP to Havant Thicket Reservoir (B)
387	Works - Corn Mill	National Library of Scotland, Historic Map 1866	N	1866 - 1951	Including Mills Dams and pond areas that have been infilled.	PSC	WRP to Havant Thicket Reservoir (B)
388	Wastewater Treatment Works	National Library of Scotland	N	1931 - 1966	Tanks and filter beds shown on 1939 historical map onwards.	PSC	WRP to Havant Thicket Reservoir (B)
389	Infilled Land - Watercourse	National Library of Scotland, Havant Borough Council	N	1892 - 1978	Area of known or suspected infilled soils (local authority records)	Infilled Land	WRP to Havant Thicket Reservoir (B)
391	Railway - South Western Railway	Historic Map 1866	Y	1866 - Present	South Western Railway branch line.	PSC	WRP to Havant Thicket Reservoir (B), D
392	Infilled Land - Pond	Historic Map 1866	N	1866 - 1951		Infilled Land	WRP to Havant Thicket Reservoir (B)
393	Infilled Land - Pond	Historic Map 1886	N	1868 - 1971		Infilled Land	WRP to Havant Thicket Reservoir (B)
394	Infilled Land - Pond	Historic Map 1886	N	1868 - 1907		Infilled Land	WRP to Havant Thicket Reservoir (B)
395	Water Works - Tank	Historic Map 1939	N	1939 - 1961		PSC	WRP to Havant Thicket Reservoir (B)
396	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
397	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
398	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
399	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
400	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
401	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
403	Wastewater Treatment Works	Historic Map 1952	N	1952 - 1957	1952 map shows sludge beds, filter beds, settling tanks, congestion tanks (east of Dunsbury Way) and humus tanks (west side of Dunsbury Way). Now an industrial estate.	PSC	WRP to Havant Thicket Reservoir (B)
405	Infilled Land - Pond	Historic Map 1953	N	1953 - 1971	Pond likely infilled, now forms part of residential gardens.	Infilled Land	WRP to Havant Thicket Reservoir (B)
406	Infilled Land - Pond	Historic Map 1953	N	1953 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
407	Water Works - Pumping station	Historic Map 1955	N	1955 - 1998		Infilled Land	WRP to Havant Thicket Reservoir (B)
408	Farm - Health Farm	Historic Map 1955	N	1955 - 1973	Farm	PSC	WRP to Havant Thicket Reservoir (B)
409	Infilled Land - Pond	Historic Map 1955	N	1955 - 1978	Pond, potentially infilled land	Infilled Land	WRP to Havant Thicket Reservoir (B)
411	Infilled Land - Drain	Historic Map 1955	N	1955 - 1978		Infilled Land	WRP to Havant Thicket Reservoir (B)
413	Infilled Land - Drain	Historic Map 1963	N	1963 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
414	Infilled Land - Drain	Historic Map 1963	N	1955 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
415	Farm - Hook's Farm	Historic Map 1966	N	1966 - 1971	Farm.	PSC	WRP to Havant Thicket Reservoir (B)
416	Infilled Land - Drain	Historic Map 1966	N	1966 - 1971	Drain - Infilled Land.	Infilled Land	WRP to Havant Thicket Reservoir (B)
417	Infilled Land - Drain	Historic Map 1966	N	1961 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
418	Infilled Land - Drain	Historic Map 1967	N	1967 - 1987		Infilled Land	E
420	Infilled Land - Swimming Pool	Historic Map 1974	Y	1974 - 1993	Swimming Pool - No Longer present, last record 1993.	PSC	WRP to Havant Thicket Reservoir (B)
421	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914		Infilled Land	E
422	Farm - Dunsbury Hill Farm	National Library of Scotland, Google Earth	N	1840-1880- 1999	Last available map shown 1963 NLS map. Not shown on 1999 google photography.	PSC	E
424	Infilled Land - Pond	Historic Map 1952	Y	1866 - 1966	Pond - Potentially still present but obscured by trees.	Infilled Land	Havant Thicket Reservoir (A)
425	Infilled Land - Swimming Pool	Historic Map 1952	N	1952 - 1956	Swimming Pool - Part of Stockheath Naval Camp.	Infilled Land	Havant Thicket Reservoir (A)
426	Embankment	Historic Map 1956	N	1956 - 1964	Embankment - Crosses Pipeline Route.	PSC	WRP to Havant Thicket Reservoir (B)
427	Infilled Land - Drain	Historic Map 1975	Y	1975 - Present	Drain - Likely still present, potentially obscured by trees.	Infilled Land	Havant Thicket Reservoir (A)
428	Infilled Land - Drain	Historic Map 1988	N	1988 - 1991		Infilled Land	Havant Thicket Reservoir (A)
429	Infilled Land - Marshland	Historic Map 1866	N	1866 - 1938		Infilled Land	WRP (C), WRP to Bedhampton Springs (B)
430	Infilled Land - Pond	Historic Map 1951	N	1939 - 1969	Potentially still present.	Infilled Land	D

PSC No.	Name	Source	Current	Dates	Description	Category	Section
431	Works - Portsdown Windmill	Historic Map 1869	N	1856 - 1869		PSC	E
432	Pit - Unspecified	Historic Map 1980, Groundsure Historical Industrial Land use and waste disposal layers	N	1856 - 1991	Disused pit on 1980 map. Widley Dell on previous maps. Groundsure Waste Disposal layer notes 1952 used as landfill or other waste disposal site. Site may extend southwest outside of boundary.	Infilled Land	E
433	Pit - Chalk	Historic Map 1941	N	1908 - 1957		Infilled Land	E
434	Pit - Chalk	Historic Map 1908	N	1908 - 1993		Infilled Land	E
435	Pit - Gravel	Historic Map 1868	N	1868 - 1950		Infilled Land	G
437	Infilled Land - Worked Ground (BGS)	BGS	N	1963 - 1993	Appears to have been infilled by 1993.	Infilled Land	M
438	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	M
439	Pit - Unspecified	Groundsure Historical Land Use Layer	N	1869 - 1957		Infilled Land	L
440	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	L
441	Landfill - Crowd Hill Landfill	Environment Agency	N	1962 - 1972	SW Phase 2 ground investigation 2023 found very little to denote landfill. Approx 0 - 0.5m MG overlying natural deposits.	Infilled Land	L
442	Works - Brick works	Groundsure Historical Industrial Land Use layer	N	1895		PSC	L
443	Landfill - Land at Rossgarth Landfill	Hampshire County Council, Environment Agency. Phase 3c GI	N	1988 - 1995	EA input 1988 to 1995 (licence surrendered).Inert waste. Local authority note - 'Gas risk - Gassing, Permeability - high'. Boundary extended west following Phase 3c GI hole 3J5007DS. MG to 3.6m bgl inc brick, concrete, glass, ceramics, cement.	Infilled Land	J
444	Works - Smithy	Groundsure Historical Industrial Land Use layer	N	1910		PSC	H
445	Worked Ground - unspecified	Groundsure Historical Land Use Layer	N	1965 - 1987	LiDAR shows ground level lower than surrounding area. Potentially not infilled.	Infilled Land	H
446	Worked Ground - Unspecified heap	Groundsure Historical Industrial Land Use layer	N	1868 - 1965		PSC	H
447	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1868 - 1869		Infilled Land	H
448	Landfill - Firth Lane Sand Pit	Winchester City Council, Hampshire County Council, Environment Agency, Google Earth	N	1998 - 2007	A01: co-disposal landfill site (EA), Licence application desk study undertaken 1997. Google Earth appears to show site closure by 2007.	Infilled Land	H
449	Landfill - Quob Copse Landfill	Environment Agency	N	1971 - 1972	Droxford Rural District Council, household / commercial landfill.	Infilled Land	G
450	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1908 - 1938		Infilled Land	G
451	Fuel Filling Station	Groundsure Historical Garages Layer	N	1961 - 1993	Information from Groundsure layer. Site is currently residential properties and a public house.	PSC	E
452	Infilled Land - Christ Church, London Road	Havant Borough Council	N	1897 - 1998	Waste type - Putrescible.	PSC	D
453	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1895		Infilled Land	D
454	Landfill - Disused Sand Pit B Brick and Tile works	Groundsure Historical Industrial Land use / Havant Borough Council	N	1930 - 1938	Local authority - suspected filled ground along the south of site.	Infilled Land	D
455	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1898 - 1938		Infilled Land	D
456	Landfill	Portsmouth City Council	N	1952	Waste disposal / unknown infill. Considered a landfill by the local authority.	Infilled Land	D
457	Pit - Chalk	Havant Borough Council, Groundsure Historical Industrial Land Use layer	N	1895 - 1963	Unknown material used to fill a small quarry hole.	Infilled Land	D
459	Infilled Land - Made Ground (BGS)	BGS / Havant Borough Council	Y	1969 - Present	Known or suspected infilled soils (local authority records). Historical mapping shows potential highways construction activities.	Infilled Land	WRP to Havant Thicket Reservoir (B), WRP (C), Budds Farm to WRP (C), D
460	Landfill - Land South of Budds Farm	Environment Agency, Havant Borough Council	N	2014	Bund erosion and water egress noted to EA. Former domestic waste landfill.	Infilled Land	Budds Farm (C), Budds Farm to WRP (C)
461	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	E
462	Landfill - Bedhampton Waterworks	Environment Agency, Havant Borough Council, Groundsure Historical Industrial Land use	N	Unknown	L05 inert landfill registered to Portsmouth Water. Area of known or suspected infilled soils (local authority records).	Infilled Land	WRP to Havant Thicket Reservoir (B)
463	Worked Ground - Heap	Groundsure Historical Industrial Land Use layer	N	1910 - 1963	Unspecified heap apart from 1931 which is recorded as unspecified ground workings. Tank recorded on site between 1897 - 1910.	Infilled Land	Havant Thicket Reservoir (A)
464	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1963 - 1991	Potential embankment on Historical Mapping.	Infilled Land	WRP to Havant Thicket Reservoir (B)
465	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1907 - 1963		Infilled Land	WRP to Havant Thicket Reservoir (B)
466	Landfill - Harts Farm Landfill	Environment Agency	N	1978 - unknown	Household waste landfill, site ref FHA15, 1760/1/13/6.	Infilled Land	WRP (C), Budds Farm to WRP (C), D
467	Worked Ground - unspecified	Groundsure Waste Disposal and Historical Industrial Uses layers	N	1952	Unknown hole. Potentially landfilled.	Infilled Land	E
468	Military - Research Facility	Google Maps, http://www.portsdown-tunnels.org.uk/	Y	1950 - Present	QinetiQ Technology Business park. Potential tanks on site.	Military	E
469	Military - Fort Southwick	Winchester County Council, / http://www.portsdown-tunnels.org.uk/	N	1861 - 2002	Various uses. Last military use 1968. See Zeticia Detailed UXO Report P14032-24-R11, D Site.	Military	E
470	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1986 - 1987		Infilled Land	H
471	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1987		Infilled Land	J
472	Landfill - Crowd Hill Landfill	BGS Historical Landfill point	N	Unknown	Risk code G2, boundaries unknown, location shown at point.	Infilled Land	L
473	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1957 - 1968		Infilled Land	L
474	Military - Wintershill Hall (Former military / civilian base)	https://wintershill.net/about/	N	1941 - 1946	Headquarters of the Hampshire Fire Service. The lower lawn was covered in Nissen huts for offices and additional accommodation. 20m south of BPT-4.	PSC	K
475	Garage	Google Earth, Site visit 04052023	Y	Unknown - Present	Streetview shows Motorhome Service Centre. Above ground tank (metal) and bunded tank (plastic) at approx. 456320, 111685.	PSC	G
476	Works - Parchow Groundworks	Ground investigation site visit 26 March 2023	Y	Unknown - Present	Former telephone exchange.	PSC	E
478	Infilled Land - Artificial Ground	ROL-2-562-575-0135-1979 MAP	N	1937 - 1993	Artificial Land / Worked Ground may be associated with removal of woodlands	Infilled Land	M
479	Water Works - Pump house	A60-21-SU-0089	Y	1988 - Present	Pump House.	PSC	D
480	Pit - Various	HAM-076-10-XX-1909-G-01	N	1909 - 1932	Potentially Infilled Pit (Sand and Gravel) associated with RTD deposits.	PSC	D
481	Waste Facility - Incinerator	Groundsure 2023 Report	N	1987 - 1993		PSC	WRP (C)
482	Infilled Land - Pond	SU51SE-03-G-1957	Y	1939 - 1957	Former Un-named building which at present is an infilled pond (associated with the River Meon).	PSC	G
483	Farm - Crockerhill Farm	SU-51SE-03-G-1957	Y	1957		PSC	F
484	Farm - Building (potential)	SU-51E-03-G-1957	Y	1957		PSC	G
485	Wastewater Treatment Works	SU-51SE-01-G_1987	Y	1987	Sewage Works with 5 tanks, two settlement tanks.	PSC	G
487	Building - Un-named	HAM-075-03-XX-1941-G-01_1941	Y	1941		PSC	E
488	Infilled Land - Pond	ROL-4-1741-1750-0290_1986	Y	1986		Infilled Land	F
490	Infilled Land - Pond	SU810_S1_SEP_1994_1994	Y	1994		Infilled Land	F
492	Infilled Land - Pond	SU6109_1965_1965	Y	1965		Infilled Land	E
493	Railway - Meon	SU-51SE-03-G_1957	Y	1909 - 1957	Meon Railway.	PSC	G
494	Infilled Land - Pond	SU5909_S1_NOV_1992_1992	Y	1992		Infilled Land	F
495	Water Works - Reservoir (covered)	SU-51SE-01-G-1987	Y	1987		PSC	F G
496	Pit - Gravel	HAM-075-02-xx-1932	N	1932		Infilled Land	F
498	Wastewater Treatment Works	Groundsure Google Earth	Y	1965 - Present		PSC	E
499	Landfill	Portsmouth Borough Council Waste Disposal GIS	N	1952 - 1980	Potential landfill recorded by local authority, unknown infill (dated 1952 by local authority).	Infilled Land	E
500	Military - Belmont Camp II	Safelane WfL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings.	PSC	D
501	Military - Stockheath Naval Camp	Safelane WfL UXO Report 9714 RA Section 9.1.3	N	1941 - 1970	Nissen huts in west of Camp, assault course south of PSC 425 swimming pool, practice trench in the north. South of PSC 428 drain. Site demolished in 1950 to 1970 and replaced with housing	Military	WRP to Havant Thicket Reservoir (B)
502	Military - HMS Daedalus III	Safelane WfL UXO Report 9714 RA Section 9.1.3 / Zetica P14032-24-R1-A Zetica UXO Desk Study Havant Thicket Pipeline	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings. Eastern extent passes pipeline route.	Military	WRP to Havant Thicket Reservoir (B)
503	Military - Fraser Naval Camp	Safelane WfL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings. Northern part of the former barracks potentially passes through the pipeline route.	Military	WRP to Havant Thicket Reservoir (B)
504	Military - Belmont Naval Camp	Safelane WfL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings.	Military	WRP to Havant Thicket Reservoir (B)
505	Farm - Widley Farm	Groundsure 2023 Report Winchester County Council	N	1860 - 1980	Farm buildings. Unknown filled ground (possible pond) noted in east of site by local authority	PSC	E
507	Farm - Offwell Farm	Groundsure 2023 Report	Y	1867 - Present		PSC	E
508	Landfill - Whitedell Farm	Environment, Agency Groundsure	N	1980 - 1982	Licence 10/14, FFA7, 1760/7 - Inert landfill.	PSC	F
509	Farm - Cloverfield Farm	OS Zoomstack maps	Y	2005 - Present		PSC	H
510	Worked Ground	Google Maps	Y	2023		PSC & Infilled Land	F
511	Worked Ground	Google Maps	Y	2023	Potential stockpile of unknown soil.	Infilled Land	F
512	Farm - Pig farm (potential)	Google Earth (2005)	N	2005 - 2007	Potential pig Farm.	PSC	H

PSC No.	Name	Source	Current	Dates	Description	Category	Section
513	Farm - Barn	Google Maps, Groundsure Maps	Y	1986 - Present		PSC	G
514	Infilled Land - Made Ground (asbestos)	WfL Phase 2 Ground Investigation	Y	2023	Made Ground up to 0.7m bgl including brick, tile and macadam. Asbestos cement (0.147%) detected at 0.5m bgl. Source not delineated.	Infilled Land	J
515	Infilled Land - Artificial Ground	Groundsure Historic Maps	N	1937 - 1993		Infilled Land	M
516	Pit - Gravel	Groundsure Historic Maps, Winchester City Council Contaminated Land Data	N	1938 - 2010		Infilled Land	M
517	Farm - Storage area	Google Earth	Y	2015 - Present	Storage area.	PSC	M
519	Infilled Land - Artificial Ground	Winchester City Council Contaminated Land Data (Site Reports)	N	2016		Infilled Land	M
520	Infilled Land - Marshland	Groundsure Historic Maps	N	1868 - 1968		Infilled Land	L
522	Infilled Land - Marshland	Groundsure Historic Maps	N	1939 - 1968		Infilled Land	L
523	Farm - Storage area	Google Earth	Y	2000 - Present	Storage area.	PSC	L
524	Infilled Land - Watercourse	Groundsure Historic Map 1869, LIDAR data	N	1869 - 1888		Infilled Land	L
525	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data, Google Earth	N	1868-1992		Infilled Land	L
526	Farm - Storage area	Google Earth, LIDAR data	Y	2014 - Present	Storage area for farm / stables to the southeast.	PSC	L
527	Embankment	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		Infilled Land	L
528	Agricultural - Orchard	Groundsure Historic Maps	N	1868 - 1957		PSC	K
529	Worked Ground - Stockpile	Google Earth, LIDAR data	N	2012 - Present	Ground workings. Soil heap first visible in 2012, still present but overgrown in 2024 aerial photography.	PSC	K
530	Worked Ground - unspecified	Google Earth, Google Maps, LIDAR data	Y	2019 - Present		PSC	K
531	Infilled Land - Watercourse	Groundsure Historic Maps	N	1868 - 1964		Infilled Land	K
532	Infilled Land - Made Ground (BGS)	BGS, LIDAR data, Google Earth	N	Unknown	BGS Made Ground	Infilled Land	K
533	Embankment - (potential)	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		PSC	J
534	Embankment	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		PSC	J
535	Tank	Groundsure Historic Maps, Google Earth	N	1993 - 2012		PSC	J
536	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data	N	1869 - 1964		Infilled Land	J
538	Farm - Storage area	Google Earth, Google Maps	Y	2019 - Present	Storage area.	PSC	J
539	Worked Ground - Stockpile	Google Earth, LIDAR data	Y	2014 - Present	Unspecified heap.	PSC	J
540	Farm - Storage area	Google Earth, Google Maps	Y	2012 - Present	Storage area.	PSC	J
541	Agricultural - Orchard	Groundsure Historic Maps	N	1868 - 1968		PSC	J
542	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data	N	1868 - 1957		Infilled Land	J
543	Infilled Land - Pond	Groundsure Historic Maps	N	1868 - 1869		Infilled Land	H
544	Infilled Land - Marshland	Groundsure Historic Maps	N	1895 - 1896		Infilled Land	H
545	Farm - Building	Google Earth	Y	2005 - Present	Farm building.	PSC	H
546	Farm - Yard / Storage area	Google Earth	Y	2012 - Present	Yard / Storage area.	PSC	H
547	Farm	Google Earth	Y	pre-1999 - Present		PSC	H
548	Farm	Groundsure Historic Maps, Google Earth	Y	1868 - Present		PSC	K
582	Filter Beds or Potential Tanks	Historical Maps A28-17-SU7006SW 1959, Google Earth	N	1959-2007		PSC & Infilled Land	B
584	Tanks	Historical Maps 1969	Y	1969 - Present		PSC	D
587	Tanks	Historical Maps - 1939 HAM-076-10-XX-1939	N	1939 - 1969		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
588	Farm - Mayles Farm	Historical Map - A48-06-SU-0380-1980	Y	1980 - Present		PSC	G
592	Pit - Gravel	Groundsure Historical Maps	N	1859 - 1985		Infilled Land	F
593	Infilled Land - Reservoir	Historical Maps - HAM-075-01-XX-1910	N	1897 - 1910		Infilled Land	F
594	Infilled Land - Pond	Historical Maps - HAM-075-01-XX-1859	N	1856 - 1957		Infilled Land	F
595	Farm - Castle Farm	Historical Maps HAM-067-13-XX-1897-G-01	Y	1897 - Present		PSC	G
596	Wastewater Treatment Works - Filter beds / tanks	Historical Maps - A54-02-SU-0360_1969	N	1939 - 1993		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
597	Wastewater Treatment Works - Settlement Tanks	Historical Maps 2500 A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
598	Wastewater Treatment Works - Filter beds (former)	Historical Maps 2500 - A33-18-SU-0239_1952	N	1952 - 1964		PSC	WRP to Havant Thicket Reservoir (B)
599	Tank - Congestion	Historical Maps 2500 - A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
600	Infilled Land - Former Sludge Beds	Historical Maps - 2500 A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
601	Water Works - Pumping station	Historical Map - A49-02SU-0211_1971	N	1955 - 1975		PSC	WRP to Havant Thicket Reservoir (B)
602	Embankment	A28-22-SU7107-1_1955	N	1955 - 1971		PSC	WRP to Havant Thicket Reservoir (B)
603	Tank	Historical Maps - SU7108SE_1971 TO 1993, Google Earth	Y	1971 - Present		PSC	WRP to Havant Thicket Reservoir (B)
604	Electricity Sub Station (Small)	Historical Mapping - SU107SW_1969, Google Street View	Y	1969 - Present		PSC	WRP to Havant Thicket Reservoir (B)
605	Electricity Sub Station (Small)	Historical Maps - A60-01-SU-0576_1973, Groundsure Historical Energy Features	Y	1973 - Present	Potentially 2 substations have existed at this location. 1st substation approximately 1973 later replaced approximately 1993.	PSC	D
606	Infilled Land - Pond	Historical Map - A28-08-SU108NW-1_1957	N	1952 - 1964		Infilled Land	Havant Thicket Reservoir (A)
607	Fuel Petrol Filling Station	Google Earth Imagery	Y	1999 - Present		PSC	G
609	Electricity Sub Station (Small)	A32-04-SU7008-4_1964 - Groundsure	N	1964 - 1971		PSC	WRP to Havant Thicket Reservoir (B)
610	Garage	A32-04-SU7008-4_1964 - Groundsure	N	1964 - 1995		PSC	WRP to Havant Thicket Reservoir (B)
611	Farm - Leigh Park Farm	Groundsure Historical Map 1975	N	1991 - Present		PSC	WRP to Havant Thicket Reservoir (B)
612	Pit - Unspecified	Groundsure 2024 Report	N	1968 - 1980	Unspecified Hole. No additional information on Groundsure maps. Potentially an infilled pit.	Infilled Land	M
613	Water Works - Pumping station	Groundsure 2024 Report	N	1980	Groundsure maps indicate a pumping station.	Ground Investigation	L
614	Wastewater Treatment Works	Aerial imagery and Groundsure 2024 reporting	Y	1993 - Present	Sewage Treatment Works.	PSC	K
621	Works - Industrial Estate	Groundsure	N	1939 - 1992	Saw Mills between 1939 - 1990s, then industrial estate.	PSC	F
622	Military - Anti-aircraft Battery	Winchester City Council	N	1939 - 1946	Dates are approximate. Information from Winchester City Council Potential Contaminative use GIS 1_2500 2km buffer 2022.	PSC	Havant Thicket Reservoir (A)
623	Military - Leigh Park House	Zetica Detailed Desk Study	N	1940 - 1957	Used by Admiralty Mine Design Department for administration and design of mines, depth changes and minesweeping. Explosive stored in the 'ice house'. See Zetica Detrail Risk Assessment for detail.	PSC	Havant Thicket Reservoir (A)
624	Pit - Unspecified	Groundsure Winchester City Council	N	1868	Shown only on 1868 map. Reduced ground level also visible on LiDAR.	Infilled Land	E
626	Infilled Land - Drain	Groundsure	N	1868 - 1980	Partially infilled by 1980 south of Mayles Lodge.	Infilled Land	G
627	Infilled Land - Drain	Groundsure	N	1868 - 1994	Drain south of sewage works no longer shown on maps.	Infilled Land	G
628	Works - Depot	Groundsure Google Maps Winchester City Council	Y	1964 - Present	'Depot' shown on maps until 1989. Buildings remain on 2019 Google Earth photography	PSC	K

Appendices

Appendix A: Section F Desk Study Information Specific to the GI and IPS-F Desk Study

Table A1 and A2 summarises desk study information specific for the Phase 2 and Phase 3B/3C GI areas in Section F. The information was used to develop the preliminary conceptual site model (CSM) presented in the HWTWRP Geotechnical and Geo-environmental desk study Version 4 (SSP, 2024).

Table A1: Geo-environmental Desk Study Summary Information for Phase 2 GI Locations at Section F

		2F3500DS	2F3501DS	2F3502SA	2F3503SA	2F3504DS, 2F3505DS
Geology	Superficial Deposits	Absent	Absent	Head. Alluvium shown c.15 m northwest.	River Terrace Deposits. Head shown c.10 m northwest.	Absent. Head deposits shown c.30 m northeast.
	Bedrock Geology	Portsdown Chalk Formation				Spetisbury Chalk Member
	Artificial/ Made Ground [1]	Absent	Absent	Absent	Absent	BGS Made Ground (undivided) c.130 m northeast and c.170 m northwest
Hydrogeology	Bedrock Aquifer Classification	Principal Aquifer (Chalk)				
	Superficial Aquifer Classification	N/A	N/A	Secondary Undifferentiated Aquifer	Secondary A Aquifer	N/A
	Source Protection Zones (SPZs)	None	Zone II			
	Drinking Water Safeguard Zone (DWSZ)	None	Maindell groundwater DWSZ (GWSGZ0145), at risk from nitrates (MAGIC, 2023).			
	Groundwater Abstractions [1]	None				
	Nitrate Vulnerable Zone	✓				
Hydrology	Surface Watercourses [1]	Wallington River bisects the DoL roughly from north to south, approximately 40 m west of 2F3502SA and 240 m east of 2F3503SA, then continues southwards across the M27 motorway and joins Portsmouth Harbour just after the A27 and A32 dual carriageway junction.				
	Surface Water Abstractions [1]	None				
Flooding	Risk from Rivers and the Sea	Flood Zone 1	Flood Zone 1	Flood Zone 2 c.15 m northwest	Flood Zone 2 c.10 m southeast	Flood Zone 1
Site History	On- Site	Earliest mapping shows an Old Sand Pit (PSC 22) and an Old Chalk Pit (PSC 24) present in the locations of 2F3500DS and 2F3501DS, respectively. The pits are no longer mapped by 1937-1961 (NLS, 2023) and the investigation areas remain as open farmland to present day.		Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.		Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.
	Surrounding Land	Earliest mapping to present day shows the surrounding land is rural with predominantly open undeveloped land (farmland).		The surrounding land is rural with predominantly open undeveloped land (farmland) and farms, with chalk and gravel pits mapped to the northeast of 2F3502SA and northwest of 2F3503SA up to the 1960s. Wallington River is shown in its current course from the earliest mapping. A few drainage channels south of the investigation areas flow into the river and appear to be infilled by 1937-1961 (NLS, 2023).		The surrounding land is rural with predominantly open undeveloped land (farmland) and farms, with chalk pits mapped to the north and southwest (PSC 5) up to the 1970s.
Landfill Sites		None				Albany Farm Landfill (site ref. FFA2, 10/2), located approximately 10 m southwest, licensed from 1977 for disposal of inert waste. License surrender date is unknown.

		2F3500DS	2F3501DS	2F3502SA	2F3503SA	2F3504DS, 2F3505DS
						Albany Farm Landfill (second area, site ref. FFA3, 10/2), located approximately 130 m and 160 m northwest of 2F3505DS and 2F3504DS respectively, licensed from 1977 to 1982 for disposal of construction, demolition, builders' waste, inert waste, stockpile soil, raised land unknown landfill.
Pollution Incidents		There are no pollution incidents (category 1 or 2) within 50 m of the GI locations.				
Ecological Sensitivity (250m radius)	**Sites of Special Scientific Interest (SSSI)**	None				
	Special Areas of Conservation (SAC)					
	Special Protection Areas (SPAs)					
	RAMSAR site					
	National Nature Reserve (NNR)					
	Ancient Woodlands					
Preliminary Risk Assessment	**Overall Risk Assessment**	Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers, future sites users, adjacent land users and groundwater.		N/A		Potential contaminant linkages with a high risk were identified for on-Site existing and future property (buildings and buried services). Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers, future sites users, adjacent land users and groundwater.

Notes:
[1] Active groundwater and surface water abstractions within 1 km; surface waters up to 250 m; artificial ground up to 250 m. All distances are approximate.
[2] Boreholes are now no longer within the Section F DoL since recent route changes.

Table A2: Geo-environmental Desk Study Summary Information for Phase 3B/3C GI Locations at Section F

		3F3517DS	3W8553DS, 3W8554DS	3W8556DS	3W8558SA	3W85363TP, 3W8559TP, 3W8567SA
Geology	**Superficial Deposits**	Absent	Absent	River Terrace Deposits	River Terrace Deposits c. 50 m southwest	Absent
	Bedrock Geology	Portsdown Chalk	Spetisbury Chalk	Lambeth		London Clay
	Artificial/ Made Ground [1]	Absent	BGS Made Ground c. 10 m east	Absent	BGS Made Ground (undivided) c.115 m northeast and c.170 m northwest	BGS Made Ground c. 250 m southwest
Hydrogeology	**Bedrock Aquifer Classification**	Principal Aquifer (Chalk)		Secondary A		
	Superficial Aquifer Classification	N/A		Secondary A Aquifer		N/A
	Source Protection Zones (SPZs)	Zone II				
	Drinking Water Safeguard Zone (DWSZ)	Maindell groundwater DWSZ (GWSGZ0145), at risk from nitrates (MAGIC, 2023).				
	Groundwater Abstractions [1]	None				
	Nitrate Vulnerable Zone	Yes – Groundwater G58 – Fareham			None	
Hydrology	**Surface Watercourses [1as p]**	None within 250 m				
	Surface Water Abstractions [1]	None				
	Nitrate Vulnerable Zone	Yes – Eutrophic Water ET2 – Chichester, and Portsmouth Harbours Eutrophic NV				
Flooding	**Risk for Surface Water**	None	None	High risk	High risk	Low risk
	Risk from Rivers and the Sea	Flood Zone 3				
Site History	**On Site**	Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.	Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.		Earliest mapping to the present day shows the investigation area to remain as open undeveloped farmland. The location has been advanced in the eastern part of PSC 1 which shows the site as a brickworks between 1868 to 1939 and is an industrial estate present day	Earliest mapping to 2005 aerial imagery (Google Earth, 2023) show the investigation areas to be open undeveloped farmland. A clay pit (PSC 2) is shown to have been active on Site between 1937 and 1970. Current mapping shows the pit is no longer present and as such it is assumed to have been infilled.
	Surrounding Land	Earliest mapping to present day shows the surrounding land is rural with predominantly open undeveloped land (farmland).	The surrounding land is rural with predominantly open undeveloped land (farmland) and farms, with chalk pit mapped just to the east of locations and historically was shown to be active between 1856 and 1985.		The surrounding land is rural with predominantly open undeveloped land.	The surrounding land is rural with predominantly open undeveloped land. Forest Lane is located west and trends in a roughly north to south direction. Works - Crockerhill former brickworks (PSC 1) active between 1868 to 1939 is located approximately 224 m southwest.

		3F3517DS	3W8553DS, 3W8554DS	3W8556DS	3W8558SA	3W85363TP, 3W8559TP, 3W8567SA
Landfill Sites		None	Pit – Chalk (PSC 25) 5 m and 10 m east of locations. Albany Farm Landfill 115m west. PSC 6.	None	Works - Former Crockerhill Brickworks (PSC 1). Locations advanced in the eastern part of PSC footprint.	Pit – Clay (PSC 2). Locations advanced within footprint.
Pollution Incidents		There are no pollution incidents (category 1 or 2) within 50 m of the GI locations.				
Ecological Sensitivity (250m radius)	**Sites of Special Scientific Interest (SSSI)**	None				
	Special Areas of Conservation (SAC)					
	Special Protection Areas (SPAs)					
	RAMSAR site					
	National Nature Reserve (NNR)					
	Ancient Woodlands	None	Carpenters Copse 15 m south of PSC.			
Preliminary Risk Assessment	**Overall Risk Assessment**	N/A	N/A		Potential contaminant linkages with a moderate risk were identified for on-Site existing and future property (buildings and buried services). Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers, future sites users, adjacent land users. A moderate / low risk was identified to groundwater.	Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers and adjacent land users.

Notes:
[1] Active groundwater and surface water abstractions within 1 km; surface waters up to 250 m; artificial ground up to 250 m. All distances are approximate.

Appendix B: Chemical Analysis List of Suites and Geo-Environmental Testing

Table B1: Summary of Geo-environmental Laboratory Tests for Phase 2 and Phases 3B and 3C

Sample ID	Deph (m bgl)	Analysis Suites [1]																
		Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)				Groundwater					
		Suite 1.1 Made Ground	Suite 1.3 Natural	Suite 1.7 Pesticides	Suite 1.8 Herbicides	1.10 WAC (1-stage) inc solid suite	Suite 2.15 Potentially Infilled Land	Suite 2.16 BGS Made Ground / Landfill	Suite 3.1 Standard	Suite L3.6 Pesticides	Suite L3.7 Herbicides	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill	Suite 4.14 Potentially Infilled Land	Suite 3.1 Standard	Suite 3.9 Hydrogeology Suite	Suite 4.4 Works
2F3500DS	0.25						✓					eR					
	1.0						✓					eR					
	2.6						✓										
	3.6						✓					eR					
2F3501DS	0.1						✓					eR					
	0.5						✓										
	2.6						R										
	3.4						R										
2F3502SA	0.2		✓	✓	✓				eR	eR	eR						
	1.0		✓														
2F3503SA	0.5		✓						✓								
	3.0		✓														
2F3504DS	0.15							✓					R				
	1.0							✓									
	2.5							✓					R				
	5.6		✓														
2F3505DS	0.15							✓					R				
	1.0							✓									
	2.6							✓									
	5.3		✓														
2F3512RC	0.1	✓		✓	✓												
	0.5		✓														
	2.8		✓														
2F3513DS	0.1							✓					R				
	0.3							✓									
	1.0							✓									
	1.8							R					R				
	2.6							R									
2F3514DS	0.1							✓					R				
	0.5							✓									
	1.7							✓									

Sample ID	Deph (m bgl)	Analysis Suites [1]																
		Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)				Groundwater					
		Suite 1.1 Made Ground	Suite 1.3 Natural	Suite 1.7 Pesticides	Suite 1.8 Herbicides	1.10 WAC (1-stage) inc solid suite	Suite 2.15 Potentially Infilled Land	Suite 2.16 BGS Made Ground / Landfill	Suite 3.1 Standard	Suite L3.6 Pesticides	Suite L3.7 Herbicides	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill	Suite 4.14 Potentially Infilled Land	Suite 3.1 Standard	Suite 3.9 Hydrogeology Suite	Suite 4.4 Works
2F3515DS	0.1						✓					eR					
	0.35						✓										
	1.0						✓										
	2.7						✓					eR					
3F3517DS	1.0	✓															
	1.3		✓						✓F								
3F3519HP	0.5		✓														
	1.0		✓														
3F3521HP	0.5		✓														
3F3523DR	0.2	✓															
	1.0	✓															
	1.3		✓														
	7.0		✓														
3F3524DR	0.1	✓															
	1.1		✓														
	2.0		✓			✓											
3F3601HP	0.5		✓														
	1.0		✓														
3F3602HP	0.5		✓														
	1.0		✓														
3F7510IT	0.5		✓														
3F7512IT	0.1	✓															
	0.5		✓														
	1.0		✓														
3F7513IT	0.5	✓															
	2.0		✓														
3W8553DS	0.5						R					✓D					
	1.5						R										
	4.5						R					✓D					
3W8554DS	0.5							✓									

Sample ID	Deph (m bgl)	Analysis Suites [1]																
		Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)				Groundwater					
		Suite 1.1 Made Ground	Suite 1.3 Natural	Suite 1.7 Pesticides	Suite 1.8 Herbicides	1.10 WAC (1-stage) inc solid suite	Suite 2.15 Potentially Infilled Land	Suite 2.16 BGS Made Ground / Landfill	Suite 3.1 Standard	Suite L3.6 Pesticides	Suite L3.7 Herbicides	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill	Suite 4.14 Potentially Infilled Land	Suite 3.1 Standard	Suite 3.9 Hydrogeology Suite	Suite 4.4 Works
	1.6							✓										
	5.3							✓										
3W8556DS	0.5							✓										
	1.7							✓				✓						
3W8558SA	0.5							✓				✓F						
	1.0							✓										
	3.8							✓				✓F						
	7.2							✓										
3W8559TP	0.1							✓				✓						
	0.5							✓										
	3.8							✓										
3W8563TP	0.1							✓				✓						
	1.0							✓										
	3.0							✓										
3W8567SA	0.5	✓							✓									
	2.3	✓																
	2.9	✓							✓									
	7.2		✓															

Sample ID	Deph (m bgl)	Analysis Suites [1]															
		Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)				Groundwater				
		Suite 1.1 Made Ground	Suite 1.3 Natural	Suite 1.7 Pesticides	Suite 1.8 Herbicides	1.10 WAC (1-stage) inc solid suite	Suite 2.15 Potentially Infilled Land	Suite 2.16 BGS Made Ground / Landfill	Suite 3.1 Standard	Suite L3.6 Pesticides	Suite L3.7 Herbicides	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill	Suite 4.14 Potentially Infilled Land	Suite 3.1 Standard	Suite 3.9 Hydrogeology Suite	Suite 4.4 Works
2F3502SA		N/A													✓ 19/07/2023 12/09/2023	✓ 19/07/2023 12/09/2023	
2F3503SA		N/A													✓ 14/07/2023 12/09/2023	✓ 14/07/2023 12/09/2023	
3W8558SA		N/A															✓ 14/05/2024
3W8567SA		N/A												✓ 14/05/2024 28/05/2024			
Phase 2 Total completed / requested		**1 / 1**	**8 / 8**	**2 / 2**	**2 / 2**	**0/0**	**10 / 12**	**12 / 14**	**1 / 2**	**0 / 1**	**0 / 1**	**0 / 6**	**0 / 6**	**0/0**	**4 / 4**	**4 / 4**	**0/0**
Phase 3B/3C Total completed / requested		**9/9**	**18/18**	**0/0**	**0/0**	**1/1**	**10/15**	**12/15**	**4/4**	**0/0**	**0/0**	**7/7**	**0/0**	**2/2**	**0/0**	**0/0**	**1/1**

1 List of analytes included in each suite is presented in **Appendix B**.
✓ Requested and completed.
R Requested but not received to date in either AGS format or Ground Investigation Report (SOCOTEC, 2023).
eR Requested but not completed due to system error (samples were discarded by the laboratory before analysis could be undertaken, therefore results will not be available).
✓D Duplicate samples received
✓F Present within the factual report, but absent from the AGS
N/A Not applicable

Appendix C: Deviations Reported by Analytical Laboratory

The following sample deviations have been reported by the analytical laboratory:

- Due to the matrix of the sample the laboratory has had to deviate from their standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
- The quality control (QC) associated with some results has not wholly met the Quality Management System (QMS) requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
- Acceptable (holding) time between the sampling date and laboratory analysis was exceeded. Holding times are derived based on ‘stability’; the ability of a property to remain unchanged, within a stated uncertainty, under given storage conditions and a specific timeframe. If a reported result is within the holding time it is known that the degree of change (if it occurs) is not statistically meaningful. If the sample result is reported as ‘deviating’, the degree of change is unknown and therefore may have affected the result the result must; therefore, be treated as potentially indicative.
- Headspace was present in sample. The presence of headspace and air bubbles in volatile organic analysis sampling vials lowers the actual aqueous concentration of these compounds due to the partitioning of solutes into the gaseous phase. Due to the loss of volatile analytes, the result must be treated as potentially indicative.

Table C1: Phase 2 Soil Sample Deviations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)																				
	2F3503SA		2F3500DS				2F3501DS		2F3504DS				2F3505DS			2F3513DS			2F3514DS		
	0.5	3.0	0.25	1.0	2.6	3.6	0.1	0.5	0.15	1.0	2.5	5.6	0.15	1.0	2.6	0.1	0.3	1.0	0.1	0.5	1.7
pH (2:5:1 extraction)					#	#	#	#			#	#									
Soil Organic Matter					#	#															
Total Organic Carbon					#	#															
Chromium (VI) by Colorimetry					#	#															
Sulphide by SFA					#	#	#	#			#										
Cyanide (complex, free and total) by SFA					#	#	#	#			#										
Thiocyanate by SFA					#	#	#	#			#										
Phenols Suite by HPLC UV					#	#															
C5-C6 Aliphatic							B	B			A, B										
>C6-C8 Aliphatic											B										
>C8-C10 Aliphatic					B	B															
>C7-C8 Aromatic											B										
>C8-C10 Aromatic					B	B															
GRO CWG UK (C5-C10) Ali/Aro Split					#	#	#	#			#	#									
Total GRO (>C6-C10)	#	#																			
TPH (>C8-C40) Aliphatic and Carbon Band (>C10-C40)					#	#															
Total TPH (>C10-C40) with silica cleanup					#	#						#									
TPH CWG Ali/Aro Split with Carbon Banding					#	#															
BTEX by GCFID					#	#	#	#			#, ^										
Toluene											B				B	B	B	B	B	B	B
m/p-Xylene					B	B															
17 PAHs (inc. Coronene) for WAC by GCMS					#	#															
Benzo[g,h,i]perylene									B	B	B		B	B	B	B	B	B	B	B	
Dibenzo[a,h]anthracene													B	B	B	B	B	B	B	B	
Indeno[1,2,3-cd]pyrene									B	B					B	B	B	B	B	B	
Fluoranthene											B										
Naphthalene					B	B															
Pyrene											B										
VOCs (Target List and TICs) by GCMS											#										
1,2,4-Trimethylbenzene									B	B					B						

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)																				
	2F3503SA		2F3500DS				2F3501DS		2F3504DS				2F3505DS			2F3513DS			2F3514DS		
	0.5	3.0	0.25	1.0	2.6	3.6	0.1	0.5	0.15	1.0	2.5	5.6	0.15	1.0	2.6	0.1	0.3	1.0	0.1	0.5	1.7
Bromomethane																B	B	B	B	B	
Chloromethane															B	B	B	B	B	B	
Trichlorofluoromethane															B	B	B	B	B	B	
SVOCs (Target List and TICs) by GCMS											#										
2,4-Dinitrotoluene															B	B	B	B			
2,4,6-Trichlorophenol											B										
Benzyl alcohol									B	B	B		B	B	B	B	B	B	B	B	B
bis(2-Chloroisopropyl)ether																					B
bis(2-Ethylhexyl)phthalate																					B
Butylbenzylphthalate																					B
Dibenzo[a,h]anthracene									B	B											
Di-n-octylphthalate											B										
Hexachloroethane																					B
Nitrobenzene									B	B					B						
PCBs (7 congeners)					#	#															
PCB138									B	B			B	B	B						
PCB180			B	B																	

Notes:
A – Due to the matrix of the sample the laboratory has had to deviate from their standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B – The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.
^ – Headspace was present in sample.

Table C2: Phase 3B/3C Soil Sample Deviations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)																						
	3F3517DS	3F3523DR		3F3524DR			3F7510IT	3F7512IT			3F7513IT		3W8553DS			3W8554DS			3W8556DS		3W8558SA			3W8560TP
	1.30	0.15	1.00	0.10	1.10	2.00 – 2.10	0.50	0.10	0.50	1.00	0.50	2.00	0.50	1.50	4.50	0.50	1.50	5.30	0.50	1.70	0.50	1.00	3.80	1.00
pH (2:5:1 extraction)		!	!	!	!		#	#	#	#	#	#							#	#	#	#	#	
Soil Organic Matter							#												#	#				
Total Organic Carbon							#												#	#				
Sulphide by SFA																					#	#	#	
Cyanide (complex, free and total) by SFA																					#	#	#	
Thiocyanate by SFA																					#	#	#	
Phenols Suite by HPLC UV		!	!													#	#	#						
Phenol Index by SFA																					#	#	#	
GRO CWG UK (C5-C10) Ali/Aro Split		!	!	!	!	!	#	#	#	#	#	#							#	#				
Total GRO (>C6-C10)		!	!	!	!	!	#	#	#	#	#	#							#	#				
TPH (>C8-C40) Aliphatic and Carbon Band (>C10-C40)																								
Total TPH (>C10-C40) with silica cleanup	!					!	#						#		#				#	#				#
TPH CWG Ali/Aro Split with Carbon Banding													#		#									
BTEX by GCFID		^!	^!	!	!	!		#	#	#	#	#												
17 PAHs (inc. Coronene) for WAC by GCMS						!													#	#				
VOCs (Target List and TICs) by GCMS																								#
BTEX & MTBE by GCMS																								#
PFAS													#	#	#									
PCBs (7 congeners)								#	#	#	#	#												

Notes:
! – Sample Date not supplied
– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.
^ – Headspace was present in sample.

Table C3: WAC (10:1 Soil Leachate) Sample Deviations

Analyte	BH ID and Sample Depth (m bgl)		
	2F3500DS		2F3514DS
	2.6	3.6	1.7
Metals (As, Ba, Cd, Cr, Cu, Hg, Mo, Ni, Pb, An, Se, Zn)	#	#	
Total sulphur as SO4	#	#	
Chloride	#	#	
Fluoride	#	#	D
Leached organic carbon	#	#	
Phenol index	#	#	

Notes:
D – A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C4: Soil Sample MDL Exceedances of the GAC

BH ID	Sample Depth (m bgl)	Determinand	LOD (µg/l)	Generic Assessment Criteria (µg/l)
2F3504DS 2F3505DS 2F3513DS 2F3514DS	0.15, 1.0, 2.5 0.15, 1.0, 2.6 0.1, 0.3, 1.0 0.1, 0.5, 1.7	PFOS	**0.03**	No GAC
		PFOA	**0.03**	No GAC

SOIL LEACHATE

Table C5: Soil Leachate Sample MDL Exceedances of the Freshwater EQS

BH ID	Sample Depth (m bgl)	Determinand	LOD (µg/l)	Generic Assessment Criteria (µg/l)
2F3503SA	0.5	Benzo(a)pyrene	**0.01**	0.00017
		Benzo(g,h,i)perylene	**0.01**	0.0082
		Fluoranthene	**0.01**	0.0063
		Total Cyanide	**20**	1
		EPH (>C10-C40)	**40**	10

GROUNDWATER

Table C6: Phase 2 Groundwater Sample Deviations

Analyte or Analytical Method	BH ID and Sampling Date			
	2F3502SA		2F3503SA	
	19/07/2023	12/09/2023	14/07/2023	12/09/2023
Total TPH (>C6-C40)	Lab report not provided	D	D, #	D
Total TPH (>C10-C40)			D, #	
Total GRO (>C6-C10)		D		D
Low Level Phenols by GCMS		D		
17 PAHs (inc. Coronene) by GCMS			D, #	

Notes:
D – A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C7: Phase 3 Groundwater Sample Deviations

Analyte or Analytical Method	BH ID and Sampling Date		
	3W8567SA		3W8558SA
	28/05/2024	14/07/2024	14/05/2024
pH	#	#	#
Electrical	#	#	#
Cyanide (Free) by SFA	#	#	#
Cyanide (Total) by SFA	#	#	#
Sulphide by SFA	#	#	#
Total GRO (>C6-C10)	#	#	#
GRO CWG UK (C5-C10) Ali/Aro Split	#	#	#
Total TPH (>C10-C40)	#	#	#
Low Level Phenols by GCMS	#	#	#
17 PAHs (inc. Coronene) by GCMS	#	#	#

– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C8: Groundwater Sample MDL Exceedances of the DWS

BH ID	Sampling Date	Determinand	LOD (µg/l)	Generic Assessment Criteria (µg/l)
2F3502SA	19/07/2023	EPH (>C10-C40)	**20**	10
	12/09/2023	Phenol	**5**	0.5
2F3503SA	14/07/2023	Benzo(a)pyrene	**0.04**	0.01
		Sum (benzo b, k, ghi & indeno123cd)	**0.16**	0.1
		EPH (>C10-C40)	**40**	10

Table C9: Groundwater Sample MDL Exceedances of the Freshwater EQS

BH ID	Sampling Date	Determinand	LOD (µg/l)	Generic Assessment Criteria (µg/l)
2F3502SA	19/07/2023	Benzo(a)pyrene	**0.01**	0.00017
		Benzo(g,h,i)perylene	**0.01**	0.0082
		Fluoranthene	**0.01**	0.0063
		Total Cyanide	**20**	1
	12/09/2023	Benzo(a)pyrene	**0.01**	0.00017
		Benzo(g,h,i)perylene	**0.01**	0.0082
		Fluoranthene	**0.01**	0.0063
		Total Cyanide	**20**	1
2F3503SA	14/07/2023	Benzo(a)pyrene	**0.04**	0.00017
		Benzo(b)fluoranthene	**0.04**	0.017
		Benzo(g,h,i)perylene	**0.04**	0.0082
		Benzo(k)fluoranthene	**0.04**	0.017
		Fluoranthene	**0.04**	0.0063
		Total Cyanide	**20**	1
	12/09/2023	Benzo(a)pyrene	**0.01**	0.00017
		Benzo(g,h,i)perylene	**0.01**	0.0082
		Fluoranthene	**0.01**	0.0063
		Total Cyanide	**20**	1

Appendix D: Geo-Environmental Laboratory Analysis Summary Screening Tables

Contamination Assessment Sheet

			Selected Files																						
		SOM Value																							
		NA																							
	Screening Criteria	S4UL Reference Page	**Sample ID**	2F3500DS	2F3500DS	2F3500DS	2F3500DS	2F3501DS	2F3501DS	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3504DS	2F3504DS	2F3504DS	2F3504DS	2F3505DS	2F3505DS	2F3505DS	2F3505DS	2F3512RC	2F3512RC	2F3513DS	2F3513DS	2F3513DS
	GAC Land Use	Commercial	**Sample Depth**	0.3	1.0	2.6	3.6	0.1	0.5	0.2	1.0	0.5	3.0	0.2	1.0	2.5	5.6	0.2	1.0	2.6	5.3	0.1	0.5	0.1	0.3	1.0
	SOM	1.0%	**Sample GEOL GEOL**	TOP	ALV	ALV	WHCK	TOP	ALV	TOP	Head	ALV	ALV	TOP	Head	WHCK	WHCK	TOP	WHCK	WHCK	WHCK	TOP	Head	TOP	Head	WHCK
Analyte	***Units***		**Lab ID**	#66503394286 30004	#66503394286 30009	G2034-222023030210 5205	G2034-222023030210 5232	#82630241793 70001	#82630241793 70005	#85364510438 00002	#85364510438 00007	G2034-222023031702 4948	G2034-222023031702 5132	G2034-222023022305 0213	G2034-222023022305 0821	G2034-222023030211 0609	G2034-222023030211 0655	G2034-222023022305 2659	G2034-222023022305 2947	G2034-222023030210 3827	G2034-222023030210 3902	#98087505576 10001	#98087505576 10005	#70583381490 00005	#70583381490 00007	#70583381490 00012
Arsenic	mg/kg	640		8.2	3	5	<0.3	12.2	12.8	11.1	8.3	6.9	1.3	8.7	0.6	0.4	0.8	8	7.3	18.1	9.1	10.9	9.1	9.4	11.1	9
Cadmium	mg/kg	190		0.5	1.2	0.5	0.5	0.9	0.8	0.3	0.6	<0.2	0.8	1.1	0.7	0.8	0.5	1.2	1.2	0.2	0.5	0.9	0.8	0.7	0.7	0.2
Chromium	mg/kg	8600		21.9	14.2	20.6	<1.2	31.6	31.2	32.9	23.2	21.7	3.3	19.6	2.4	1.2	9.7	18.3	22.5	43.7	24.4	25.6	28.3	18.3	29.6	23.5
Chromium, Hexavalent	mg/kg	33		<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	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1
Selenium	mg/kg	12000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	mg/kg	68000		18	6.5	8.5	<1.6	21.6	15.6	15.5	18.2	12.9	4	15.4	3.1	1.8	5.1	13.7	10.2	19.2	20.9	18.2	12.2	18	39	20.1
Lead	mg/kg	1100		30	6.3	9	0.9	28.7	25.2	14.1	32.8	12.9	1.8	42.6	2.8	2.1	1.5	34.2	10.8	34.8	19	37.4	19.9	78.3	186.1	25
Elemental Mercury	mg/kg	58 (25.8)																								
Mercury	mg/kg	1100		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Methylmercury	mg/kg	320																								
Nickel	mg/kg	980		17.6	15.8	19.2	5.2	27.8	26.5					20.3	3.9	3.1		19.1	24.4	31.4		18.1		16.5	17	25.4
Zinc	mg/kg	730000		86.8	31.6	45.1	<16.0	74.1	63	77.6	66	43.5	19.2	71.2	19.5	<16.0	<16.0	64	63.6	103.3	73.8	52.9	53.3	138	173.6	72
Beryllium	mg/kg	12																								
Boron, water soluble	mg/kg	240000		0.7	<0.5	0.8	<0.5	1.2	1	0.6	1.1	<0.5	<0.5	1.8	1.2	<0.5	<0.5	1.6	1.5	<0.5	<0.5		0.8	0.8	0.8	<0.5
Vanadium	mg/kg	9000																								
Antimony	mg/kg																									
Barium	mg/kg																									
Molybdenum	mg/kg																									
Manganese	mg/kg													992	345.3	374		952.1	1000	487.4				321	294.7	340.5
Inorganics																										
Elemental Sulphur	mg/kg																									
Sulphate, Total	mg/kg			473	381	270	406	587	444	165	535	199	426	681	362	450	339	867	422	351	381	546	309	439	266	321
Sulphide, Easily liberated	mg/kg			<0.6	<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
Chloride	mg/kg													17	10	3		7	9	4				237	61	45
Cyanide, Free	mg/kg			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6					<0.6	<0.6	<0.6		<0.6	<0.6	<0.7				<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	<0.6	<0.7				<0.6	<0.6	<0.6
Cyanide, Complex	mg/kg																									
Thiocyanate	mg/kg			<2.4	<2.5	<2.4	<2.5	<2.4	<2.4					<2.5	<2.5	<2.5		<2.5	<2.5	<2.6				<2.6	<2.5	<2.5
Ammonia	mg/kg																									
% Stones Greater than 10mm	%			9.6	6.8	10.7	<0.1	1.7	6	6.5	18.1	<0.1	<0.1	3.7	1.6	13.4	5.5	5.7	14.3	<0.1	<0.1	4.6	8.8	6.2	8.2	7.3
Asbestos	Identifed			NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS													NAIIS				
pH	pH			7.8	7.6	8.6	9.1	8.3	8.4	8	8	7.6	7.4	8.1	8.2	9	9.5	7.9	8.5	9.1	9.1	7.9	8	7.7	8	8.6
Soil Organic Matter	%			2.81	0.81	0.76	1.22	2.57	1.61	0.7	0.78	0.68	0.51	4	1.7	0.66	0.47	3.45	2.05	0.5	0.53	2.82	2.09	3.29	1.22	0.6
Phenols																										
Phenol	mg/kg	440		<0.12	<0.11	<0.12	<0.10	<0.12	<0.10					<0.1	<0.1	<0.1		<0.1	<0.1	<0.1		0.42		<0.1	<0.1	<0.1
Chlorophenols	mg/kg	3500												<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)		<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.7(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)				<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)
Pentachlorophenol	mg/kg	400								<0.10				<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10
Catechol	mg/kg																									
Resorcinol	mg/kg																									
Cresols	mg/kg			<0.12	<0.11	<0.12	<0.10	<0.12	<0.10													0.25				
Xylenols & Ethylphenols	mg/kg			<0.12	<0.11	<0.12	<0.10	<0.12	<0.10													<0.12				
Naphthols	mg/kg																									
Trimethylphenol	mg/kg			<0.12	<0.11	<0.12	<0.10	<0.12	<0.10													<0.12				
2,4-Dimethylphenol	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
Total Phenols	mg/kg																									
BTEX																										
Benzene	mg/kg	27		<0.012	<0.012	<0.012	<0.013	<0.012	<0.012					<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.012		<0.001	<0.001	<0.001
Toluene	mg/kg	56000 (869)		<0.012	<0.012	<0.012	<0.013	<0.012	<0.012					<0.006	<0.007	<0.006		<0.006	<0.007	<0.006		<0.012		<0.007	<0.007	<0.007
Ethylbenzene	mg/kg	5700 (518)		<0.012	<0.012	<0.012	<0.013	<0.012	<0.012					<0.002	<0.003	<0.003		<0.002	<0.003	<0.003		<0.012		<0.003	<0.003	<0.003
o-xylene	mg/kg	6600 (478*)		<0.012	<0.012	<0.012	<0.013	<0.012	<0.012					0.003	<0.003	<0.003		<0.002	<0.003	<0.003		<0.012		<0.003	<0.003	<0.003
m-xylene	mg/kg	6200 (625)																								
p-xylene	mg/kg	5900 (576*)																								
m,p-xylene		#N/A		<0.024	<0.025	<0.024	<0.025	<0.024	<0.024					<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		<0.025		<0.006	<0.005	<0.005
Total Xylenes (calculated for HWO)	mg/kg	#N/A																								
Total BTEX		#N/A		<0.073	<0.074	<0.072	<0.075	<0.072	<0.071					<0.074	<0.075	<0.074		<0.074	<0.074	<0.079		<0.075		<0.077	<0.076	<0.074
MTBE		#N/A		<0.024	<0.025	<0.024	<0.025	<0.024	<0.024					<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.025		<0.001	<0.001	<0.001
PAH by GCMS																										
Naphthalene	mg/kg	190 (76.4*)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.006	<0.007	<0.006		<0.006	<0.007	<0.006		<0.10		<0.007	<0.007	<0.007
Acenaphthylene	mg/kg	83000 (86.1*)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.1		<0.10		<0.10	<0.10	<0.10
Acenaphthene	mg/kg	84000 (57*)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.1		<0.10		<0.10	<0.10	<0.10
Fluorene	mg/kg	63000 (30.9*)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Phenanthrene	mg/kg	22000		0.21	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.1		<0.10		0.3	<0.10	<0.10
Anthracene	mg/kg	520000		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.1		<0.10		<0.10	<0.10	<0.10
Fluoranthene	mg/kg	23000		0.62	<0.10	<0.10	<0.10	0.14	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		0.12		0.3	<0.10	<0.10
Pyrene	mg/kg	54000		0.53	<0.10	<0.10	<0.10	0.12	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		0.11		0.3	<0.10	<0.10
Benzo(a)anthracene	mg/kg	170		0.28	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Chrysene	mg/kg	350		0.37	<0.10	<0.10	<0.10	0.15	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		0.1		0.14	<0.10	<0.10
Benzo(b)fluoranthene	mg/kg	44		0.42	<0.10	<0.10	<0.10	0.17	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		0.16		0.3	<0.10	<0.10
Benzo(k)fluoranthene	mg/kg	1200		0.21	<0.10	<0.10	<0.10	0.1	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Benzo(a)pyrene	mg/kg	35		0.35	<0.10	<0.10	<0.10	0.14	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		0.13		0.15	<0.10	<0.10
Indeno(1,2,3-cd)pyrene	mg/kg	500		0.28	<0.10	<0.10	<0.10	0.11	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		0.12	<0.10	<0.10
Dibenzo(a,h)anthracene	mg/kg	3.5		<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Benzo(g,h,i)perylene	mg/kg	3900		0.21	<0.10	<0.10	<0.10	0.1	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Coronene	mg/kg			<0.10	<0.10	<0.10	<0.10	<0.10	<0.09					<0.10	<0.10	<0.10		<0.10	<0.10	<0.11		<0.10		<0.10	<0.10	<0.10
Coal Tar	mg/kg	15																								
Polyaromatic hydrocarbons, Total 17	mg/kg			4.16	<1.67	<1.63	<1.70	1.88	<1.60					<1.67	<1.70	<1.68		<1.67	<1.67	<1.79		1.81		2.11	<1.72	<1.67
Benzo(j)fluoranthene	mg/kg																									
Sum of detected PCB 7 Congeners	mg/kg																									
Dioxins and similar PCBs (equiv)	mg/kg																									
Petroleum Hydrocarbon (1% SOM)																										
Aliphatics >C5-C6	mg/kg	3200 (304*)		<0.244	<0.246	<0.239	<0.250	<0.240	<0.235					<0.245	<0.249	<0.247		<0.245	<0.246	<0.263		<0.248		<0.256	<0.253	<0.246
Aliphatics >C6-C8	mg/kg	7800 (144*)		<0.244	<0.246	<0.239	<0.250	<0.240	<0.235					<0.245	<0.249	<0.247		<0.245	<0.246	<0.263		<0.248		<0.256	<0.253	<0.246
Aliphatics >C8-C10	mg/kg	2000 (78*)		<0.244	<0.246	<0.239	<0.250	<0.240	<0.235					<0.245	<0.249	<0.247		<0.245	<0.246	<0.263		<0.248		<0.256	<0.253	<0.246
Aliphatics >C10-C12	mg/kg	9700 (48*)		16.5	7.95	<4.78	<4.99	<4.80	<4.70					5.14	5.5	<4.94		5.01	<4.91	<5.26		<4.97		<5.12	<5.06	<4.93

	Screening Criteria	S4UL Reference Page	Sample ID	2F3500DS	2F3500DS	2F3500DS	2F3500DS	2F3501DS	2F3501DS	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3504DS	2F3504DS	2F3504DS	2F3504DS	2F3505DS	2F3505DS	2F3505DS	2F3505DS	2F3512RC	2F3512RC	2F3513DS	2F3513DS	2F3513DS
	GAC Land Use	Commercial	Sample Depth	0.3	1.0	2.6	3.6	0.1	0.5	0.2	1.0	0.5	3.0	0.2	1.0	2.5	5.6	0.2	1.0	2.6	5.3	0.1	0.5	0.1	0.3	1.0
	SOM	1.0%	Sample GEOL GEOL	TOP	ALV	ALV	WHCK	TOP	ALV	TOP	Head	ALV	ALV	TOP	Head	WHCK	WHCK	TOP	WHCK	WHCK	WHCK	TOP	Head	TOP	Head	WHCK
Analyte	*Units*		Lab ID	#66503394286 30004	#66503394286 30009	G2034-222023030210 5205	G2034-222023030210 5232	#82630241793 70001	#82630241793 70005	#85364510438 00002	#85364510438 00007	G2034-222023031702 4948	G2034-222023031702 5132	G2034-222023022305 0213	G2034-222023022305 0821	G2034-222023030211 0609	G2034-222023030211 0655	G2034-222023022305 2659	G2034-222023022305 2947	G2034-222023030210 3827	G2034-222023030210 3902	#98087505576 10001	#98087505576 10005	#70583381490 00005	#70583381490 00007	#70583381490 00012
Aliphatics >C12-C16	mg/kg	59000 (24*)		<4.88	9.35	6.05	<4.99	<4.80	<4.70					8.37	8.06	<4.94		9.55	8.07	<5.26		<4.97		<5.12	<5.06	<4.93
Aliphatics >C16-C21	mg/kg			10.2	15.4	<4.78	<4.99	<4.80	<4.70					6.66	5.74	5.56		8.6	5.85	<5.26		<4.97		<5.12	<5.06	<4.93
Aliphatic EC16 - 35	mg/kg	1600000																								
Aliphatics >C21-C35	mg/kg			26.3	16.8	<12.0	<12.5	<12.0	<11.8					22	<12.5	<12.4		21.1	<12.3	<13.2		<12.4		<12.8	<12.6	<12.3
Aliphatics >C35-C44	mg/kg	1600000		10.1	<7.39	9.96	10.6	<7.19	<7.05					13.2	8.19	<7.42		12	9.18	<7.89		8.32		10.4	12.8	12
Aromatics >EC5-EC7	mg/kg	26000 (1220*)																								
Aromatics >EC7-EC8	mg/kg	56000 (869)		<0.012	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.013	<0.012		<0.012	<0.012	<0.013		<0.012		<0.013	<0.013	<0.012
Aromatics >EC8-EC10	mg/kg	3500 (613)		<0.049	<0.049	<0.048	<0.051	<0.048	<0.048					<0.049	<0.051	<0.049		<0.049	<0.049	<0.053		<0.05		<0.052	<0.051	<0.049
Aromatics >EC10-EC12	mg/kg	16000 (364*)		<4.88	8.59	<4.78	8.51	5.12	<4.70					<4.91	<4.99	<4.94		<4.90	<4.91	<5.26		<4.97		<5.12	<5.06	<4.93
Aromatics >EC12-EC16	mg/kg	36000 (169*)		<4.88	18.8	<4.78	13.3	<4.80	<4.70					7.53	6.13	<4.94		11.9	6.14	<5.26		<4.97		6.43	<5.06	7.34
Aromatics >EC16-EC21	mg/kg	28000		11.3	21.5	<4.78	8.42	<4.80	<4.70					11.1	11.8	<4.94		15.6	9.03	15.5		<4.97		<5.12	<5.06	<4.93
Aromatics >EC21-EC35	mg/kg	28000		31	43	<12.0	<12.5	<12.0	<11.8					16	15.5	<12.4		18.1	19.4	66.3		<12.4		29.5	16.9	19.4
Aromatics >EC35-EC44	mg/kg	28000		<7.32	21	<7.18	17.2	<7.19	<7.05					8.37	<7.48	<7.42		<7.35	<7.37	13.6		<7.45		21.5	19	21.4
Ali&Aro EC44-70	mg/kg	28000																								
Petrol Range Organics^	mg/kg																									
Diesel Range Organics^	mg/kg																									
Sum of C5-C44 Ali/Aro (CWG)	mg/kg	#N/A		105.4	162.39	16.01	58.03	5.12	0	0	0	0	0	98.37	60.92	5.56	0	101.86	57.67	95.4	0	8.32	0	67.83	48.7	60.14
TPH >C10-C40	mg/kg			123	63.8	36.2	29	63.1	68.9	<23.4	25.3	<23.4	201	61.9	27.4	55.7	116	110	94.2	62.7	68.3	37.6	27.8	82.5	50.8	29.3
1,2,4-Trimethylbenzene	mg/kg													0.005	<0.001	<0.001		0.002	<0.001	<0.001				<0.001	<0.001	<0.001
Isopropylbenzene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Propylbenzene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Styrene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
TPH MAX Value				123.0	162.4	36.2	58.0	63.1	68.9	<23.4	25.3	<23.4	201.0	98.4	60.9	55.7	116.0	110.0	94.2	95.4	68.3	37.6	27.8	82.5	50.8	60.1
Volatile Organic Compounds																										
Vinyl Chloride	mg/kg	0.059												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Dichloromethane	mg/kg																									
trans-1,2-Dichloroethene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
2,2-Dichloropropane	mg/kg													<0.002	<0.003	<0.003		<0.002	<0.003	<0.003				<0.003	<0.003	<0.003
cis-1,2-Dichloroethene	mg/kg													<0.006	<0.007	<0.006		<0.006	<0.007	<0.006				<0.007	<0.007	<0.007
Bromochloromethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Chloroform	mg/kg	99												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/kg	660												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Carbontetrachloride	mg/kg	2.9												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/kg	0.67												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Dibromomethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Bromodichloromethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Dibromochloromethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,2-Dibromoethane	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Chlorobenzene	mg/kg	56												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/kg	270												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	mg/kg	110												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Trichloroethene	mg/kg	1.2												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Tetrachloroethene	mg/kg	19												<0.003	<0.004	<0.004		<0.004	<0.004	<0.004				<0.004	<0.004	<0.004
2,4,6 Trinitrotoluene (TNT)	mg/kg	1000																								
HMX	mg/kg	110000																								
RDX	mg/kg	210000																								
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	1700 (122)								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	49 (39.4)																								
1,2,4,5-Tetrachlorobenzene	mg/kg	42 (19.7*)																								
Pentachlorobenzene (PeCB)	mg/kg	640 (43*)								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
Carbon Disulphide	mg/kg	11																								
Hexachlorobutadiene	mg/kg	31												<0.002	<0.003	<0.003		<0.002	<0.003	<0.003				<0.003	<0.003	<0.003
2,4-Dinitrotoluene	mg/kg													<0.2	<0.2	<0.2		<0.2	<0.2	<0.3				<0.3	<0.3	<0.2
2,6-Dinitrotoluene	mg/kg													<0.6	<0.6	<0.6		<0.6	<0.6	<0.7				<0.6	<0.6	<0.6
2-Chloronaphthalene	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
Biphenyl	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
Bromobenzene	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Bromoform	mg/kg													<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
Chloroethane	mg/kg													<0.002	<0.003	<0.003		<0.002	<0.003	<0.003				<0.003	<0.003	<0.003
Chloromethane	mg/kg													<0.003	<0.004	<0.004		<0.004	<0.004	<0.004				<0.004	<0.004	<0.004
bis(2-Ethylhexyl) phthalate	mg/kg													<0.2	<0.2	<0.2		<0.2	<0.2	<0.3				<0.3	<0.3	<0.2
Butylbenzyl phthalate	mg/kg													<0.2	<0.2	<0.2		<0.2	<0.2	<0.3				<0.3	<0.3	<0.2
Diethyl phthalate	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
n-Dibutyl phthalate	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
n-Dioctyl phthalate	mg/kg													<0.2	<0.2	<0.2		<0.2	<0.2	<0.3				<0.3	<0.3	<0.2
Herbicides/Insecticides																										
Aldrin	mg/kg	170								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Dieldrin	mg/kg	170								<0.00585				<0.00613	<0.00623	<0.00618		<0.00613	<0.00614	<0.00658		<0.00621		<0.0064	<0.00632	<0.00616
Atrazine	mg/kg	9300								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Dichlorvos (DDVP)	mg/kg	140								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Alpha-Endosulfan	mg/kg	5600 (0.003)								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
Beta-Endosulfan	mg/kg	6300 (0.00007)								<0.0117				<0.0123	<0.0125	<0.0124		<0.0123	<0.0123	<0.0132		<0.0124		<0.0128	<0.0126	<0.0123
Alpha-Hexachlorocyclohexanes	mg/kg	170								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Beta-Hexachlorocyclohexanes	mg/kg	65								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Gamma-Hexachlorocyclohexanes	mg/kg	67								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
1,2-Dichlorobenzene	mg/kg	2000 (571*)												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/kg	30												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/kg	4400 (224)												<0.001	<0.001	<0.001		<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	mg/kg	102								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
1,2,4-Trichlorobenzene	mg/kg	220												<0.003	<0.004	<0.004		<0.004	<0.004	<0.004				<0.004	<0.004	<0.004
1,3,5-Trichlorobenzene	mg/kg	23								<0.00117				<0.00123	<0.00125	<0.00124		<0.00123	<0.00123	<0.00132		<0.00124		<0.00128	<0.00126	<0.00123
Hexachlorobenzene	mg/kg	110 (0.2)								<0.00234				<0.00245	<0.00249	<0.00247		<0.00245	<0.00246	<0.00263		<0.00248		<0.00256	<0.00253	<0.00246
Hexachloroethane	mg/kg													<0.1	<0.1	<0.1		<0.1	<0.1	<0.1				<0.1	<0.1	<0.1
Total CFC (for Haz)	mg/kg																									
Moisture.																										
Moisture Content Ratio (% of as received sample)	%			18	18.8	16.4	19.9	16.6	14.9	14.5	16.2	14.6	22	18.5	19.8	19.1	18.2	18.4	18.6	24	21.9	19.5	16.8	21.9	20.9	18.8
PFOA/PFOS																										
PFOA	mg/kg	0.6												<3e-05	<3e-05	<3e-05		<3e-05	<3e-05	<3e-05				<3e-05	<3e-05	<3e-05
PFOS	mg/kg	0.6												<3e-05	<3e-05	<3e-05		<3e-05	<3e-05	<3e-05				<3e-05	<3e-05	<3e-05
PFHxS	mg/kg	0.6																								
PFNA	mg/kg	0.6																								
Hazard Quotient	%	1																								

Contamination Assessment Sheet

			Selected Files
		SOM Value	
		NA	

	Screening Criteria	S4UL Reference Page	Sample ID	2F3514DS	2F3514DS	2F3514DS	2F3515DS	2F3515DS	2F3515DS	2F3515DS	3F3517DS	3F3517DS	3F3519HP	3F3519HP	3F3521HP	3F3523DR	3F3523DR	3F3523DR	3F3523DR	3F3524DR	3F3524DR	3F3524DR	3F3601HP	3F3601HP	3F3602HP	3F3602HP
	GAC Land Use	Commercial	Sample Depth	0.1	0.5	1.7	0.1	0.4	1.0	2.7	1.0	1.3	0.5	1.0	0.5	0.2	1.0	1.3	7.0	0.1	1.1	2.0	0.5	1.0	0.5	1.0
	SOM	1.0%	Sample GEOL GEOL	TOP	Head	WHCK	TOP	Head	WHCK	WHCK	MGR	WHCK	WHCK	WHCK	Head	MGR	Head	Head	WHCK	TOP	Head	WHCK	Head	Head	Head	Head
Analyte	***Units***		**Lab ID**	#50308495923 00002	#50308495923 00005	G2034-222023030310 3531	#35277760417 70002	#35277760417 70005	#35277760417 70010	G2034-222023030302 3142	G4011-24 Phase 3B/C20240521 113639	G4011-24 Phase 3B/C20240521 113719	G4011-24 Phase 3B/C20240521 112027	G4011-24 Phase 3B/C20240521 112044	#22126925653 80003	#46045714871 00001	#46045714871 00009	#83805306667 20019	#83805306667 20022	#56964719741 00002	#56964719741 00008	#66609828251 60012	G4011-24 Phase 3B/C20240521 110442	G4011-24 Phase 3B/C20240521 110459	#84209469465 50004	#84209469465 50005
Arsenic	mg/kg	640		7.4	16.1	<0.3	9.4	13	10.8	0.4	0.8	7.9	3.8	0.4	7.9	9.5	8.5	12.7	<0.3	8.7	8	1.1	6.3	17.9	15.2	13.3
Cadmium	mg/kg	190		0.6	0.5	0.8	0.3	0.2	1.4	0.6	0.7	1	0.9	0.6	0.3	1.4	0.5	0.4	0.8	1.4	1.9	0.6	0.5	0.4	0.9	3.7
Chromium	mg/kg	8600		21.5	36.3	1.2	18.5	34	36.7	2.7	3.9	26.8	13.5	3.3	19	25.1	22.5	31.5	2.1	28.8	28.3	<1.2	21.8	52.7	46.4	49.4
Chromium, Hexavalent	mg/kg	33		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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	mg/kg	12000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	2.5
Copper	mg/kg	68000		17.4	12.8	3.3	12.4	14.6	18.9	5.3	2.5	9.5	5.7	2.4	18	13.1	7.6	13	2.2	15.3	11.9	<1.6	8.7	16.8	31.4	20.3
Lead	mg/kg	1100		30	22.2	1.1	19.5	15.9	20.4	1.8	2	12.4	10.5	2.3	13.3	31.7	11.8	15.3	1.4	33.4	11.8	1.4	13	17.8	20	17.5
Elemental Mercury	mg/kg	58 (25.8)																								
Mercury	mg/kg	1100		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylmercury	mg/kg	320																								
Nickel	mg/kg	980		15.5	33.1	4.1	11	23.6	35	4.9	5.4					25.3	16.7			28.2						
Zinc	mg/kg	730000		71.8	86.3	16	42.8	51.4	92.6	16.5	17.6	56.1	34	<16.0	38.7	56.3	42.3	43.7	22.5	63.1	65.3	<16.0	45.3	73.8	89.3	89.3
Beryllium	mg/kg	12																								
Boron, water soluble	mg/kg	240000		0.7	0.6	<0.5	0.5	0.6	0.7	<0.5		2.2	2.6	2	<0.5			<0.5	<0.5		<0.5	<0.5	2.1	1.9	<0.5	<0.5
Vanadium	mg/kg	9000																								
Antimony	mg/kg																									
Barium	mg/kg																									
Molybdenum	mg/kg																									
Manganese	mg/kg			801.7	924.9	436.2																				
Inorganics																										
Elemental Sulphur	mg/kg																									
Sulphate, Total	mg/kg			700	198	371	562	146	206	348	470	348	462	376	602	354	252	478	522	1010	440	337	276	237	94	343
Sulphide, Easily liberated	mg/kg			<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6					<0.6	<0.6			<0.6						
Chloride	mg/kg			662	82	106																				
Cyanide, Free	mg/kg			<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6																
Cyanide, Total	mg/kg			<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6																
Cyanide, Complex	mg/kg																									
Thiocyanate	mg/kg			<2.9	<2.4	<2.5	<2.4	<2.3	<2.5	<2.5																
Ammonia	mg/kg																									
% Stones Greater than 10mm	%			<0.1	5.1	<0.1	10.2	11.3	1.4	<0.1	12.1	9.6	12.9	12.7	<0.1	11.6	21.3	8.3	4.8	8.9	<0.1	2.6	4	4.2	2.4	1.3
Asbestos	Identifed						NAIIS	NAIIS	NAIIS	NAIIS	NAIIS					NAIIS	NAIIS			NAIIS						
pH	pH			7.7	8.3	8.7	8.1	8.2	8.2	9.3	8.6	9.1	8.8	9	7.1	8	7.4	7.9	7.7	8	8.1	8.5	8.3	8.2	8.2	8.1
Soil Organic Matter	%			5.09	1.03	0.68	1.84	0.66	0.95	0.64	0.53	0.9	0.98	0.69	0.29	2.48	0.48	0.66	0.62	3.15	0.97	0.54	0.88	0.81	0.85	2.37
Phenols																										
Phenol	mg/kg	440		<0.1	<0.1	<0.1	0.21	<0.12	<0.12	<0.12	<0.12					<0.11	<0.11			<0.12						
Chlorophenols	mg/kg	3500		<0.7(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)	<0.6(4-Chlorophenol), <0.1(2,4-Dichlorophenol), <0.1(2,4,6-Trichlorophenol), <0.1(2-Chlorophenol), <0.1(2,4,5-Trichlorophenol)																		
Pentachlorophenol	mg/kg	400		<0.10	<0.10	<0.10																				
Catechol	mg/kg																									
Resorcinol	mg/kg																									
Cresols	mg/kg						1.37	<0.12	<0.12	<0.12	<0.12					<0.11	<0.11			<0.12						
Xylenols & Ethylphenols	mg/kg						<0.11	<0.12	<0.12	<0.12	<0.12					<0.11	<0.11			<0.12						
Naphthols	mg/kg																									
Trimethylphenol	mg/kg						1.1	<0.12	<0.12	<0.12	<0.12					<0.11	<0.11			<0.12						
2,4-Dimethylphenol	mg/kg			<0.1	<0.1	<0.1																				
Total Phenols	mg/kg																									
BTEX																										
Benzene	mg/kg	27		<0.002	<0.001	<0.001	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.011			<0.012		<0.013				
Toluene	mg/kg	56000 (869)		<0.008	<0.006	<0.006	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.011			<0.012		<0.013				
Ethylbenzene	mg/kg	5700 (518)		<0.003	<0.002	<0.003	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.011			<0.012		<0.013				
o-xylene	mg/kg	6600 (478*)		<0.003	<0.002	<0.003	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.011			<0.012		<0.013				
m-xylene	mg/kg	6200 (625)																								
p-xylene	mg/kg	5900 (576*)																								
m,p-xylene		#N/A		<0.006	<0.005	<0.005	<0.024	<0.023	<0.025	<0.025	<0.024					<0.024	<0.023			<0.025		<0.025				
Total Xylenes (calculated for HWO)	mg/kg	#N/A																								
Total BTEX		#N/A		<0.088	<0.073	<0.075	<0.073	<0.070	<0.075	<0.074	<0.073					<0.071	<0.068			<0.075		<0.076				
MTBE		#N/A		<0.002	<0.001	<0.001	<0.024	<0.023	<0.025	<0.025	<0.024					<0.024	<0.023			<0.025						
PAH by GCMS																										
Naphthalene	mg/kg	190 (76.4*)		<0.008	<0.006	<0.006	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Acenaphthylene	mg/kg	83000 (86.1*)		<0.1	<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Acenaphthene	mg/kg	84000 (57*)		<0.1	<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Fluorene	mg/kg	63000 (30.9*)		<0.12	<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Phenanthrene	mg/kg	22000		<0.1	0.2	<0.10	0.19	<0.09	0.13	<0.10	0.21					0.43	<0.09			<0.10		<0.10				
Anthracene	mg/kg	520000		<0.1	0.1	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					0.11	<0.09			<0.10		<0.10				
Fluoranthene	mg/kg	23000		<0.12	0.35	<0.10	0.34	<0.09	0.39	<0.10	0.24					0.5	<0.09			<0.10		<0.10				
Pyrene	mg/kg	54000		<0.12	0.28	<0.10	0.3	<0.09	0.35	<0.10	0.14					0.4	<0.09			<0.10		<0.10				
Benzo(a)anthracene	mg/kg	170		<0.12	<0.10	<0.10	0.13	<0.09	0.16	<0.10	<0.10					0.22	<0.09			<0.10		<0.10				
Chrysene	mg/kg	350		<0.12	0.15	<0.10	0.18	<0.09	0.26	<0.10	<0.10					0.22	<0.09			<0.10		<0.10				
Benzo(b)fluoranthene	mg/kg	44		<0.12	0.15	<0.10	0.21	<0.09	0.3	<0.10	<0.10					0.27	<0.09			0.13		<0.10				
Benzo(k)fluoranthene	mg/kg	1200		<0.12	<0.10	<0.10	0.11	<0.09	0.14	<0.10	<0.10					0.1	<0.09			<0.10		<0.10				
Benzo(a)pyrene	mg/kg	35		<0.12	0.13	<0.10	0.17	<0.09	0.23	<0.10	<0.10					0.2	<0.09			0.12		<0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	500		<0.12	<0.10	<0.10	0.12	<0.09	0.19	<0.10	<0.10					0.12	<0.09			0.12		<0.10				
Dibenzo(a,h)anthracene	mg/kg	3.5		<0.12	<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Benzo(g,h,i)perylene	mg/kg	3900		<0.12	<0.10	<0.10	0.12	<0.09	0.17	<0.10	<0.10					0.11	<0.09			0.12		<0.10				
Coronene	mg/kg			<0.12	<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10					<0.09	<0.09			<0.10		<0.10				
Coal Tar	mg/kg	15																								
Polyaromatic hydrocarbons, Total 17	mg/kg			<1.99	2.33	<1.70	2.55	<1.59	3	<1.68	1.94					3.24	<1.54			1.77		<1.72				
Benzo(j)fluoranthene	mg/kg																									
Sum of detected PCB 7 Congeners	mg/kg										<0.043					<0.041	<0.040			<0.044		<0.044				
Dioxins and similar PCBs (equiv)	mg/kg																									
Petroleum Hydrocarbon (1% SOM)																										
Aliphatics >C5-C6	mg/kg	3200 (304*)		<0.292	<0.243	<0.250	<0.244	<0.234	<0.249	<0.247	<0.243					<0.236	<0.227			<0.248						
Aliphatics >C6-C8	mg/kg	7800 (144*)		<0.292	<0.243	<0.250	<0.244	<0.234	<0.249	<0.247	<0.243					<0.236	<0.227			<0.248						
Aliphatics >C8-C10	mg/kg	2000 (78*)		<0.292	<0.243	<0.250	<0.244	<0.234	<0.249	<0.247	<0.243					<0.236	<0.227			<0.248						
Aliphatics >C10-C12	mg/kg	9700 (48*)		<5.85	<4.87	<4.99	<4.88	<4.68	<4.98	<4.94	<4.87					<4.71	<4.53			<4.97						

	Screening Criteria	S4UL Reference Page	Sample ID	2F3514DS	2F3514DS	2F3514DS	2F3515DS	2F3515DS	2F3515DS	2F3515DS	2F3517DS	2F3517DS	2F3519HP	2F3519HP	2F3521HP	2F3523DR	2F3523DR	2F3523DR	2F3523DR	2F3524DR	2F3524DR	2F3524DR	2F3601HP	2F3601HP	2F3602HP	2F3602HP
	GAC Land Use	Commercial	Sample Depth	0.1	0.5	1.7	0.1	0.4	1.0	2.7	1.0	1.3	0.5	1.0	0.5	0.2	1.0	1.3	7.0	0.1	1.1	2.0	0.5	1.0	0.5	1.0
	SOM	1.0%	Sample GEOL GEOL	TOP	Head	WHCK	TOP	Head	WHCK	WHCK	MGR	WHCK	WHCK	WHCK	Head	MGR	Head	Head	WHCK	TOP	Head	WHCK	Head	Head	Head	Head
Analyte	*Units*		Lab ID	#50308495923 00002	#50308495923 00005	G2034-222023030310 3531	#35277760417 70002	#35277760417 70005	#35277760417 70010	G2034-222023030302 3142	G4011-24 Phase 3B/C20240521 113639	G4011-24 Phase 3B/C20240521 113719	G4011-24 Phase 3B/C20240521 112027	G4011-24 Phase 3B/C20240521 112044	#22126925653 80003	#46045714871 00001	#46045714871 00009	#83805306667 20019	#83805306667 20022	#56964719741 00002	#56964719741 00008	#66609828251 60012	G4011-24 Phase 3B/C20240521 110442	G4011-24 Phase 3B/C20240521 110459	#84209469465 50004	#84209469465 50005
Aliphatics >C12-C16	mg/kg	59000 (24*)		<5.85	5.68	<4.99	6.5	<4.68	<4.98	<4.94	<4.87					<4.71	<4.53			<4.97						
Aliphatics >C16-C21	mg/kg			10.2	7.76	<4.99	6.9	<4.68	<4.98	<4.94	<4.87					<4.71	<4.53			<4.97						
Aliphatic EC16 - 35	mg/kg	1600000																								
Aliphatics >C21-C35	mg/kg			28.7	13.7	12.8	17	<11.7	18.9	<12.3	<12.2					<11.8	<11.3			15.4						
Aliphatics >C35-C44	mg/kg	1600000		17.1	12.5	35.7	16.1	<7.02	14.4	<7.41	<7.30					<7.07	<6.80			<7.45						
Aromatics >EC5-EC7	mg/kg	26000 (1220*)																								
Aromatics >EC7-EC8	mg/kg	56000 (869)		<0.015	<0.012	<0.013	<0.012	<0.012	<0.013	<0.012	<0.012					<0.012	<0.011			<0.012						
Aromatics >EC8-EC10	mg/kg	3500 (613)		<0.059	<0.049	<0.051	<0.049	<0.047	<0.051	<0.049	<0.049					<0.048	<0.045			<0.05						
Aromatics >EC10-EC12	mg/kg	16000 (364*)		<5.85	<4.87	6.39	5.02	5.18	<4.98	6.55	<4.87					<4.71	<4.53			<4.97						
Aromatics >EC12-EC16	mg/kg	36000 (169*)		<5.85	7.48	7.08	11.8	6.98	5.64	10.6	<4.87					<4.71	6.59			<4.97						
Aromatics >EC16-EC21	mg/kg	28000		6.2	10.5	6.51	11.4	7.26	9	11.5	<4.87					7.22	7.15			<4.97						
Aromatics >EC21-EC35	mg/kg	28000		39.7	33.7	24.6	20.8	<11.7	22.9	20.1	<12.2					<11.8	12			<12.4						
Aromatics >EC35-EC44	mg/kg	28000		26.1	17.9	28.6	12	<7.02	8.49	24.1	<7.30					<7.07	<6.80			<7.45						
Ali&Aro EC44-70	mg/kg	28000																								
Petrol Range Organics^	mg/kg																									
Diesel Range Organics^	mg/kg																									
Sum of C5-C44 Ali/Aro (CWG)	mg/kg	#N/A		128	109.22	121.68	107.52	19.42	79.33	72.85	0	0	0	0	0	7.22	25.74	0	0	15.4	0	0	0	0	0	0
TPH >C10-C40	mg/kg			57.9	<24.3	<25.0	61.7	107	115	<24.7	<24.3	<24.4	<23.8	<23.7	<23.4	29.2	<22.7	44.7	<25.4	29	<24.8	142	<23.4	<24.3	26.5	29.1
1,2,4-Trimethylbenzene	mg/kg			<0.002	<0.001	<0.001																				
Isopropylbenzene	mg/kg			<0.002	<0.001	<0.001																				
Propylbenzene	mg/kg			<0.002	<0.001	<0.001																				
Styrene	mg/kg			<0.002	<0.001	<0.001																				
TPH MAX Value				128.0	109.2	121.7	107.5	107.0	115.0	72.9	<24.3	<24.4	<23.8	<23.7	<23.4	29.2	25.7	44.7	<25.4	29.0	<24.8	142.0	<23.4	<24.3	26.5	29.1
Volatile Organic Compounds																										
Vinyl Chloride	mg/kg	0.059		<0.002	<0.001	<0.001																				
1,1-Dichloroethene	mg/kg			<0.002	<0.001	<0.001																				
Dichloromethane	mg/kg																									
trans-1,2-Dichloroethene	mg/kg			<0.002	<0.001	<0.001																				
1,1-Dichloroethane	mg/kg			<0.002	<0.001	<0.001																				
2,2-Dichloropropane	mg/kg			<0.003	<0.002	<0.003																				
cis-1,2-Dichloroethene	mg/kg			<0.008	<0.006	<0.006																				
Bromochloromethane	mg/kg			<0.002	<0.001	<0.001																				
Chloroform	mg/kg	99		0.002	<0.001	<0.001																				
1,1,1-Trichloroethane	mg/kg	660		<0.002	<0.001	<0.001																				
Carbontetrachloride	mg/kg	2.9		<0.002	<0.001	<0.001																				
1,1-Dichloropropene	mg/kg			<0.002	<0.001	<0.001																				
1,2-Dichloroethane	mg/kg	0.67		<0.002	<0.001	<0.001																				
1,2-Dichloropropane	mg/kg			<0.002	<0.001	<0.001																				
Dibromomethane	mg/kg			<0.002	<0.001	<0.001																				
Bromodichloromethane	mg/kg			<0.002	<0.001	<0.001																				
trans-1,3-Dichloropropene	mg/kg			<0.002	<0.001	<0.001																				
cis-1,3-Dichloropropene	mg/kg			<0.002	<0.001	<0.001																				
1,1,2-Trichloroethane	mg/kg			<0.002	<0.001	<0.001																				
1,3-Dichloropropane	mg/kg			<0.002	<0.001	<0.001																				
Dibromochloromethane	mg/kg			<0.002	<0.001	<0.001																				
1,2-Dibromoethane	mg/kg			<0.002	<0.001	<0.001																				
Chlorobenzene	mg/kg	56		<0.002	<0.001	<0.001																				
1,1,2,2-Tetrachloroethane	mg/kg	270		<0.002	<0.001	<0.001																				
1,1,1,2-Tetrachloroethane	mg/kg	110		<0.002	<0.001	<0.001																				
Trichloroethene	mg/kg	1.2		<0.002	<0.001	<0.001																				
Tetrachloroethene	mg/kg	19		<0.005	<0.004	<0.004																				
2,4,6 Trinitrotoluene (TNT)	mg/kg	1000																								
HMX	mg/kg	110000																								
RDX	mg/kg	210000																								
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	1700 (122)		<0.00146	<0.00122	<0.00125																				
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	49 (39.4)																								
1,2,4,5-Tetrachlorobenzene	mg/kg	42 (19.7*)																								
Pentachlorobenzene (PeCB)	mg/kg	640 (43*)		<0.00146	<0.00122	<0.00125																				
Carbon Disulphide	mg/kg	11																								
Hexachlorobutadiene	mg/kg	31		<0.003	<0.002	<0.003																				
2,4-Dinitrotoluene	mg/kg			<0.3	<0.2	<0.3																				
2,6-Dinitrotoluene	mg/kg			<0.7	<0.6	<0.6																				
2-Chloronaphthalene	mg/kg			<0.1	<0.1	<0.1																				
Biphenyl	mg/kg			<0.1	<0.1	<0.1																				
Bromobenzene	mg/kg			<0.002	<0.001	<0.001																				
Bromoform	mg/kg			<0.002	<0.001	<0.001																				
Chloroethane	mg/kg			<0.003	<0.002	<0.003																				
Chloromethane	mg/kg			<0.005	<0.004	<0.004																				
bis(2-Ethylhexyl) phthalate	mg/kg			<0.3	<0.2	<0.3																				
Butylbenzyl phthalate	mg/kg			<0.3	<0.2	<0.3																				
Diethyl phthalate	mg/kg			<0.1	<0.1	<0.1																				
n-Dibutyl phthalate	mg/kg			<0.1	<0.1	<0.1																				
n-Dioctyl phthalate	mg/kg			<0.3	<0.2	<0.3																				
Herbicides/Insecticides																										
Aldrin	mg/kg	170		<0.00292	<0.00243	<0.0025																				
Dieldrin	mg/kg	170		<0.00731	<0.00608	<0.00624																				
Atrazine	mg/kg	9300		<0.00292	<0.00243	<0.0025																				
Dichlorvos (DDVP)	mg/kg	140		<0.00292	<0.00243	<0.0025																				
Alpha-Endosulfan	mg/kg	5600 (0.003)		<0.00146	<0.00122	<0.00125																				
Beta-Endosulfan	mg/kg	6300 (0.00007)		<0.0146	<0.0122	<0.0125																				
Alpha-Hexachlorocyclohexanes	mg/kg	170		<0.00292	<0.00243	<0.0025																				
Beta-Hexachlorocyclohexanes	mg/kg	65		<0.00292	<0.00243	<0.0025																				
Gamma-Hexachlorocyclohexanes	mg/kg	67		<0.00146	<0.00122	<0.00125																				
1,2-Dichlorobenzene	mg/kg	2000 (571*)		<0.002	<0.001	<0.001																				
1,3-Dichlorobenzene	mg/kg	30		<0.002	<0.001	<0.001																				
1,4-Dichlorobenzene	mg/kg	4400 (224)		<0.002	<0.001	<0.001																				
1,2,3-Trichlorobenzene	mg/kg	102		<0.00146	<0.00122	<0.00125																				
1,2,4-Trichlorobenzene	mg/kg	220		<0.005	<0.004	<0.004																				
1,3,5-Trichlorobenzene	mg/kg	23		<0.00146	<0.00122	<0.00125																				
Hexachlorobenzene	mg/kg	110 (0.2)		<0.00292	<0.00243	<0.0025																				
Hexachloroethane	mg/kg			<0.1	<0.1	<0.1																				
Total CFC (for Haz)	mg/kg																									
Moisture.																										
Moisture Content Ratio (% of as received sample)	%			31.6	17.8	19.9	18	14.5	19.7	19	17.8	17.9	16.1	15.7	14.5	15.1	11.7	9.5	21.4	19.5	19.2	20.7	14.7	17.7	23.1	22.9
PFOA/PFOS																										
PFOA	mg/kg	0.6		<3e-05	<3e-05	<3e-05																				
PFOS	mg/kg	0.6		<3e-05	<3e-05	<3e-05																				
PFHxS	mg/kg	0.6																								
PFNA	mg/kg	0.6																								
Hazard Quotient	%	1																								

Contamination Assessment Sheet

		SOM Value	Selected Files
		NA	

	Screening Criteria	S4UL Reference Page	Sample ID	3F7510IT	3F7512IT	3F7512IT	3F7512IT	3F7513IT	3F7513IT	3W8553DS	3W8553DS	3W8553DS	3W8554DS	3W8554DS	3W8554DS	3W8556DS	3W8556DS	3W8558SA	3W8558SA	3W8558SA	3W8558SA	3W8559TP	3W8559TP	3W8559TP	3W8563TP	3W8563TP
	GAC Land Use	Commercial	Sample Depth	0.5	0.1	0.5	1.0	0.5	2.0	0.5	1.5	4.5	0.5	1.6	5.3	0.5	1.7	0.5	1.0	3.8	7.2	0.1	0.5	3.8	0.1	1.0
	SOM	1.0%	Sample GEOL GEOL	Head	TOP	Head	WHCK	Head	WHCK	Head	WHCK	WHCK	Head	WHCK	WHCK	LMBE	LMBE	MGR	MGR	LMBE		TOP	Head	LC	TOP	Head
Analyte	***Units***		**Lab ID**	#49152154218 80004	#33892087560 90002	#33892087560 90004	#33892087560 90007	#73701776458 60004	#73701776458 60009	#16775160383 70006	#16775160383 70012	#16775160383 70020	#83785904191 20005	#83785904191 20011	#83785904191 20021	G4011-24 Phase 3B/C20240507 095655	G4011-24 Phase 3B/C20240507 095801	#09944491279 20006	#09944491279 20009	#09944491279 20018	#09944491279 20032	#72074529748 30002	#72074529748 30004	#72074529748 30011	#02067759773 70001	#02067759773 70007
Arsenic	mg/kg	640		6.5	8.6	9.3	6	6	2.3				14.9	3	0.4	5.5	3.2	5.2	4.3	24.6	2.5	10.1	12.4	2.2	5	6.9
Cadmium	mg/kg	190		1.1	1.3	1.2	1.3	1	1				1.7	0.7	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	0.8	0.3	0.6	<0.2	<0.2	<0.2
Chromium	mg/kg	8600		21.9	27.9	36.3	23.2	19.5	9				44.1	10.9	2.3	14.4	24	19.6	23.1	11.2	5.5	32.2	32.5	15.2	14.7	23.2
Chromium, Hexavalent	mg/kg	33		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	mg/kg	12000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	mg/kg	68000		8.8	14.1	12.3	9.2	8.4	4.5				27.2	10.8	4.7	8	9	14.6	13.4	10.6	4.3	16.1	18.3	4.6	7.6	12.5
Lead	mg/kg	1100		16.5	49.2	14.9	7.8	15.6	3.5				17.1	3.8	1.5	114.5	15	15.9	10.9	25.8	2.7	31.5	19	4	23.4	15.1
Elemental Mercury	mg/kg	58 (25.8)																								
Mercury	mg/kg	1100		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylmercury	mg/kg	320																								
Nickel	mg/kg	980			30.8			17.8					62	11	4.3	6.8	16	22.4	23.8	10.3	12.8	22.6	21.8	10.2	8.5	21.5
Zinc	mg/kg	730000		51.3	64.8	71.8	51.3	49.3	25.5				78.9	30.9	<16.0	21.4	22.5	45.2	43.2	61.9	22.9	54	55.9	23	33.9	59.7
Beryllium	mg/kg	12																								
Boron, water soluble	mg/kg	240000		0.6		0.6	<0.5		<0.5				<0.5	<0.5	<0.5	0.9	<0.5	0.7	0.5	<0.5	0.9	0.8	<0.5	<0.5	0.7	<0.5
Vanadium	mg/kg	9000																								
Antimony	mg/kg																									
Barium	mg/kg																									
Molybdenum	mg/kg																									
Manganese	mg/kg																									
Inorganics																										
Elemental Sulphur	mg/kg																									
Sulphate, Total	mg/kg			408	833	335	393	360	460				962	1530	444	268	469	286	450	821	352	425	271	<20	356	55
Sulphide, Easily liberated	mg/kg				<0.6			<0.6					<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Chloride	mg/kg																									
Cyanide, Free	mg/kg												<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Cyanide, Total	mg/kg												<0.7	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Cyanide, Complex	mg/kg																									
Thiocyanate	mg/kg												<2.6	<2.5	<2.5	<2.4	<2.4	<2.4	<2.3	<2.3	<2.3	<2.4	<2.3	<2.4	<2.4	<2.4
Ammonia	mg/kg																									
% Stones Greater than 10mm	%			0.5	<0.1	0.6	0.4	1.9	2				1.9	3.8	5.6	<0.1	<0.1	2.8	1.5	<0.1	1.7	2.2	5.8	5.5	2.5	<0.1
Asbestos	Identifed				NAIIS			NAIIS					NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS
pH	pH			7.6	8.6	8.7	8.9	8.9	9.3				7.9	8.5	8.5	9.1	6.9	8	8.1	8.1	8.7	8.4	8.3	8.3	7.9	8.2
Soil Organic Matter	%			1.37	2.69	0.94	0.87	2.26	0.43				0.62	0.47	0.27	7.17	8.42	1.32	0.45	0.46	0.57	2.16	0.89	0.2	1.65	0.51
Phenols																										
Phenol	mg/kg	440			<0.12			<0.12					<0.13	<0.12	<0.12	<0.11	<0.11	<0.12	<0.10	<0.10	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12
Chlorophenols	mg/kg	3500																								
Pentachlorophenol	mg/kg	400																								
Catechol	mg/kg																									
Resorcinol	mg/kg																									
Cresols	mg/kg				<0.12			<0.12					<0.13	<0.12	<0.12	<0.11	<0.11	<0.12	<0.10	<0.10	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12
Xylenols & Ethylphenols	mg/kg				<0.12			<0.12					<0.13	<0.12	<0.12	<0.11	<0.11	<0.12	<0.10	<0.10	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12
Naphthols	mg/kg																									
Trimethylphenol	mg/kg				<0.12			<0.12					<0.13	<0.12	<0.12	<0.11	<0.11	<0.12	<0.10	<0.10	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12
2,4-Dimethylphenol	mg/kg																									
Total Phenols	mg/kg																									
BTEX																										
Benzene	mg/kg	27			<0.012			<0.012					<0.013	<0.013	<0.013	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
Toluene	mg/kg	56000 (869)			<0.012			<0.012					<0.013	<0.013	<0.013	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
Ethylbenzene	mg/kg	5700 (518)			<0.012			<0.012					<0.013	<0.013	<0.013	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
o-xylene	mg/kg	6600 (478*)			<0.012			<0.012					<0.013	<0.013	<0.013	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
m-xylene	mg/kg	6200 (625)																								
p-xylene	mg/kg	5900 (576*)																								
m,p-xylene		#N/A			<0.025			<0.024					<0.026	<0.025	<0.025	<0.024	<0.024	<0.024	<0.023	<0.023	<0.023	<0.024	<0.023	<0.024	<0.024	<0.024
Total Xylenes (calculated for HWO)	mg/kg	#N/A																								
Total BTEX		#N/A			<0.074			<0.071					<0.079	<0.075	<0.075	<0.071	<0.071	<0.072	<0.069	<0.068	<0.070	<0.072	<0.068	<0.071	<0.071	<0.073
MTBE		#N/A			<0.025			<0.024					<0.026	<0.025	<0.025	<0.024	<0.024	<0.024	<0.023	<0.023	<0.023	<0.024	<0.023	<0.024	<0.024	<0.024
PAH by GCMS																										
Naphthalene	mg/kg	190 (76.4*)			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Acenaphthylene	mg/kg	83000 (86.1*)			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Acenaphthene	mg/kg	84000 (57*)			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Fluorene	mg/kg	63000 (30.9*)			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Phenanthrene	mg/kg	22000			0.17			0.28					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Anthracene	mg/kg	520000			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Fluoranthene	mg/kg	23000			0.56			0.69					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	0.18	<0.09	<0.09	0.17	<0.10
Pyrene	mg/kg	54000			0.54			0.59					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	0.16	<0.09	<0.09	0.16	<0.10
Benzo(a)anthracene	mg/kg	170			0.38			0.34					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Chrysene	mg/kg	350			0.34			0.28					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	0.11	<0.09	<0.09	0.15	<0.10
Benzo(b)fluoranthene	mg/kg	44			0.56			0.47					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	0.13	<0.10
Benzo(k)fluoranthene	mg/kg	1200			0.21			0.18					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	0.18	<0.09	<0.09	<0.09	<0.10
Benzo(a)pyrene	mg/kg	35			0.48			0.39					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	0.11	<0.10
Indeno(1,2,3-cd)pyrene	mg/kg	500			0.26			0.2					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Dibenzo(a,h)anthracene	mg/kg	3.5			<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Benzo(g,h,i)perylene	mg/kg	3900			0.24			0.2					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Coronene	mg/kg				<0.10			<0.09					<0.11	<0.10	<0.10	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10	<0.09	<0.09	<0.09	<0.10
Coal Tar	mg/kg	15																								
Polyaromatic hydrocarbons, Total 17	mg/kg				4.42			4.27					<1.79	<1.69	<1.70	<1.60	<1.60	<1.63	<1.56	<1.55	<1.59	1.87	<1.54	<1.61	1.86	<1.65
Benzo(j)fluoranthene	mg/kg																									
Sum of detected PCB 7 Congeners	mg/kg				0.047			<0.041					<0.046	<0.044	<0.044	<0.041	<0.041	<0.042	<0.040	<0.040	<0.041	<0.042	<0.040	<0.042	<0.041	<0.043
Dioxins and similar PCBs (equiv)	mg/kg																									
Petroleum Hydrocarbon (1% SOM)																										
Aliphatics >C5-C6	mg/kg	3200 (304*)			<0.248			<0.237					<0.200	<0.200	<0.200	<0.236	<0.235	<0.240	<0.229	<0.227	<0.234	<0.239	<0.227	<0.237	<0.236	<0.243
Aliphatics >C6-C8	mg/kg	7800 (144*)			<0.248			<0.237					<0.264	<0.249	<0.25	<0.236	<0.235	<0.240	<0.229	<0.227	<0.234	<0.239	<0.227	<0.237	<0.236	<0.243
Aliphatics >C8-C10	mg/kg	2000 (78*)			0.388			<0.237					<0.264	<0.249	<0.25	<0.236	<0.235	<0.240	<0.229	<0.227	<0.234	<0.239	<0.227	<0.237	<0.236	<0.243
Aliphatics >C10-C12	mg/kg	9700 (48*)			<4.96			<4.73					<5.27	<4.98	<5.00	<4.72	<4.71	<4.79	<4.59	<4.55	<4.67	<4.78	<4.54	<4.74	<4.72	<4.85

	Screening Criteria	S4UL Reference Page	Sample ID	3F7510IT	3F7512IT	3F7512IT	3F7512IT	3F7513IT	3F7513IT	3W8553DS	3W8553DS	3W8553DS	3W8554DS	3W8554DS	3W8554DS	3W8556DS	3W8556DS	3W8558SA	3W8558SA	3W8558SA	3W8558SA	3W8559TP	3W8559TP	3W8559TP	3W8563TP	3W8563TP
	GAC Land Use	Commercial	Sample Depth	0.5	0.1	0.5	1.0	0.5	2.0	0.5	1.5	4.5	0.5	1.6	5.3	0.5	1.7	0.5	1.0	3.8	7.2	0.1	0.5	3.8	0.1	1.0
	SOM	1.0%	Sample GEOL GEOL	Head	TOP	Head	WHCK	Head	WHCK	Head	WHCK	WHCK	Head	WHCK	WHCK	LMBE	LMBE	MGR	MGR	LMBE		TOP	Head	LC	TOP	Head
Analyte	*Units*		Lab ID	#49152154218 80004	#33892087560 90002	#33892087560 90004	#33892087560 90007	#73701776458 60004	#73701776458 60009	#16775160383 70006	#16775160383 70012	#16775160383 70020	#83785904191 20005	#83785904191 20011	#83785904191 20021	G4011-24 Phase 3B/C20240507 095655	G4011-24 Phase 3B/C20240507 095801	#09944491279 20006	#09944491279 20009	#09944491279 20018	#09944491279 20032	#72074529748 30002	#72074529748 30004	#72074529748 30011	#02067759773 70001	#02067759773 70007
Aliphatics >C12-C16	mg/kg	59000 (24*)			<4.96			<4.73					<5.27	<4.98	<5.00	<4.72	<4.71	<4.79	<4.59	<4.55	<4.67	5.77	<4.54	<4.74	<4.72	<4.85
Aliphatics >C16-C21	mg/kg				<4.96			<4.73					<5.27	<4.98	<5.00	<4.72	5.36	<4.79	<4.59	<4.55	<4.67	<4.78	<4.54	<4.74	<4.72	<4.85
Aliphatic EC16 - 35	mg/kg	1600000																								
Aliphatics >C21-C35	mg/kg				<12.4			<11.8					<13.2	<12.5	<12.5	<11.8	<11.8	<12.0	<11.5	<11.4	<11.7	13.1	<11.3	<11.8	12.8	<12.1
Aliphatics >C35-C44	mg/kg	1600000			<7.43			<7.10					<7.91	<7.47	<7.50	<7.08	10.8	<7.19	<6.88	<6.82	<7.01	<7.17	<6.80	<7.11	<7.08	<7.28
Aromatics >EC5-EC7	mg/kg	26000 (1220*)																								
Aromatics >EC7-EC8	mg/kg	56000 (869)			<0.012			<0.012					<0.013	<0.013	<0.013	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
Aromatics >EC8-EC10	mg/kg	3500 (613)			<0.05			<0.048					<0.053	<0.051	<0.051	<0.048	<0.048	<0.048	<0.047	<0.046	<0.047	<0.048	<0.045	<0.048	<0.048	<0.049
Aromatics >EC10-EC12	mg/kg	16000 (364*)			<4.96			<4.73					<5.27	<4.98	<5.00	<4.72	<4.71	<4.79	<4.59	<4.55	<4.67	<4.78	<4.54	<4.74	<4.72	<4.85
Aromatics >EC12-EC16	mg/kg	36000 (169*)			<4.96			<4.73					<5.27	<4.98	<5.00	7.21	6.37	<4.79	<4.59	<4.55	5.3	<4.78	<4.54	<4.74	<4.72	<4.85
Aromatics >EC16-EC21	mg/kg	28000			<4.96			<4.73					<5.27	<4.98	<5.00	5.86	5.12	<4.79	<4.59	<4.55	8.98	6.91	<4.54	6.16	<4.72	<4.85
Aromatics >EC21-EC35	mg/kg	28000			<12.4			<11.8					<13.2	<12.5	<12.5	12.4	<11.8	<12.0	<11.5	<11.4	22.3	<11.9	<11.3	<11.8	<11.8	<12.1
Aromatics >EC35-EC44	mg/kg	28000			<7.43			<7.10					<7.91	<7.47	<7.50	<7.08	<7.06	<7.19	<6.88	<6.82	9.92	7.39	<6.80	8.74	<7.08	<7.28
Ali&Aro EC44-70	mg/kg	28000																								
Petrol Range Organics^	mg/kg																									
Diesel Range Organics^	mg/kg																									
Sum of C5-C44 Ali/Aro (CWG)	mg/kg	#N/A		0	0.388	0	0	0	0	0	0	0	0	0	0	25.47	27.65	0	0	0	46.5	33.17	0	14.9	12.8	0
TPH >C10-C40	mg/kg			49	38.9	28.9	51.1	113	60.5				28.7	38	62.9	43.5	28.9	40.4	<22.9	<22.7	29.9	26	<22.7	<23.7	191	<24.3
1,2,4-Trimethylbenzene	mg/kg																									
Isopropylbenzene	mg/kg																									
Propylbenzene	mg/kg																									
Styrene	mg/kg																									
TPH MAX Value				49.0	38.9	28.9	51.1	113.0	60.5				28.7	38.0	62.9	43.5	28.9	40.4	<22.9	<22.7	46.5	33.2	<22.7	14.9	191.0	<24.3
Volatile Organic Compounds																										
Vinyl Chloride	mg/kg	0.059																								
1,1-Dichloroethene	mg/kg																									
Dichloromethane	mg/kg																									
trans-1,2-Dichloroethene	mg/kg																									
1,1-Dichloroethane	mg/kg																									
2,2-Dichloropropane	mg/kg																									
cis-1,2-Dichloroethene	mg/kg																									
Bromochloromethane	mg/kg																									
Chloroform	mg/kg	99																								
1,1,1-Trichloroethane	mg/kg	660																								
Carbontetrachloride	mg/kg	2.9																								
1,1-Dichloropropene	mg/kg																									
1,2-Dichloroethane	mg/kg	0.67																								
1,2-Dichloropropane	mg/kg																									
Dibromomethane	mg/kg																									
Bromodichloromethane	mg/kg																									
trans-1,3-Dichloropropene	mg/kg																									
cis-1,3-Dichloropropene	mg/kg																									
1,1,2-Trichloroethane	mg/kg																									
1,3-Dichloropropane	mg/kg																									
Dibromochloromethane	mg/kg																									
1,2-Dibromoethane	mg/kg																									
Chlorobenzene	mg/kg	56																								
1,1,2,2-Tetrachloroethane	mg/kg	270																								
1,1,1,2-Tetrachloroethane	mg/kg	110																								
Trichloroethene	mg/kg	1.2																								
Tetrachloroethene	mg/kg	19																								
2,4,6 Trinitrotoluene (TNT)	mg/kg	1000																								
HMX	mg/kg	110000																								
RDX	mg/kg	210000																								
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	1700 (122)																								
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	49 (39.4)																								
1,2,4,5-Tetrachlorobenzene	mg/kg	42 (19.7*)																								
Pentachlorobenzene (PeCB)	mg/kg	640 (43*)																								
Carbon Disulphide	mg/kg	11																								
Hexachlorobutadiene	mg/kg	31																								
2,4-Dinitrotoluene	mg/kg																									
2,6-Dinitrotoluene	mg/kg																									
2-Chloronaphthalene	mg/kg																									
Biphenyl	mg/kg																									
Bromobenzene	mg/kg																									
Bromoform	mg/kg																									
Chloroethane	mg/kg																									
Chloromethane	mg/kg																									
bis(2-Ethylhexyl) phthalate	mg/kg																									
Butylbenzyl phthalate	mg/kg																									
Diethyl phthalate	mg/kg																									
n-Dibutyl phthalate	mg/kg																									
n-Dioctyl phthalate	mg/kg																									
Herbicides/Insecticides																										
Aldrin	mg/kg	170																								
Dieldrin	mg/kg	170																								
Atrazine	mg/kg	9300																								
Dichlorvos (DDVP)	mg/kg	140																								
Alpha-Endosulfan	mg/kg	5600 (0.003)																								
Beta-Endosulfan	mg/kg	6300 (0.00007)																								
Alpha-Hexachlorocyclohexanes	mg/kg	170																								
Beta-Hexachlorocyclohexanes	mg/kg	65																								
Gamma-Hexachlorocyclohexanes	mg/kg	67																								
1,2-Dichlorobenzene	mg/kg	2000 (571*)																								
1,3-Dichlorobenzene	mg/kg	30																								
1,4-Dichlorobenzene	mg/kg	4400 (224)																								
1,2,3-Trichlorobenzene	mg/kg	102																								
1,2,4-Trichlorobenzene	mg/kg	220																								
1,3,5-Trichlorobenzene	mg/kg	23																								
Hexachlorobenzene	mg/kg	110 (0.2)																								
Hexachloroethane	mg/kg																									
Total CFC (for Haz)	mg/kg																									
Moisture.																										
Moisture Content Ratio (% of as received sample)	%			16	19.3	19	18.4	15.5	16.7				24.1	19.7	20	15.2	15	16.5	12.8	12	14.4	16.3	11.8	15.6	15.3	17.6
PFOA/PFOS																										
PFOA	mg/kg	0.6																								
PFOS	mg/kg	0.6																								
PFHxS	mg/kg	0.6																								
PFNA	mg/kg	0.6																								
Hazard Quotient	%	1																								

Contamination Assessment Sheet

				SOM Value	Selected Files				
				NA					
	Screening Criteria	S4UL Reference Page	**Sample ID**	3W8563TP	3W8567SA	3W8567SA	3W8567SA	3W8567SA
	GAC Land Use	Commercial	**Sample Depth**	3.0	0.5	2.3	2.9	7.2
	SOM	1.0%	**Sample GEOL GEOL**	LC	MGR	MGR	LC	LC
Analyte	***Units***		**Lab ID**	#02067759773 70011	#89155294368 40006	#89155294368 40012	#89155294368 40016	#89155294368 40027
Arsenic	mg/kg	640		6.7	4.5	14.2	9.1	7.2
Cadmium	mg/kg	190		<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	mg/kg	8600		22.4	15.4	46.5	26.6	24.4
Chromium, Hexavalent	mg/kg	33		<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	mg/kg	12000		<0.5	<0.5	<0.5	<0.5	<0.5
Copper	mg/kg	68000		12	15.6	16	15.9	18.6
Lead	mg/kg	1100		9.5	12.4	13.3	13	11.2
Elemental Mercury	mg/kg	58 (25.8)						
Mercury	mg/kg	1100		<0.5	<0.5	<0.5	<0.5	<0.5
Methylmercury	mg/kg	320						
Nickel	mg/kg	980		27.8	11.2	14	32.8	
Zinc	mg/kg	730000		66.7	30.3	40.3	62.3	48.4
Beryllium	mg/kg	12						
Boron, water soluble	mg/kg	240000		<0.5				0.7
Vanadium	mg/kg	9000						
Antimony	mg/kg							
Barium	mg/kg							
Molybdenum	mg/kg							
Manganese	mg/kg							
Inorganics								
Elemental Sulphur	mg/kg							
Sulphate, Total	mg/kg			<20	509	254	40	546
Sulphide, Easily liberated	mg/kg			<0.6	<0.6	<0.6	<0.6	
Chloride	mg/kg							
Cyanide, Free	mg/kg			<0.6				
Cyanide, Total	mg/kg			<0.6				
Cyanide, Complex	mg/kg							
Thiocyanate	mg/kg			<2.4				
Ammonia	mg/kg							
% Stones Greater than 10mm	%			<0.1	3.3	1	<0.1	<0.1
Asbestos	Identifed			NAIIS	NAIIS	NAIIS	NAIIS	
pH	pH			8	8.1	8.1	8	7.3
Soil Organic Matter	%			0.25	0.46	0.47	0.27	0.79
Phenols								
Phenol	mg/kg	440		<0.11	<0.12	<0.12	<0.12	
Chlorophenols	mg/kg	3500						
Pentachlorophenol	mg/kg	400						
Catechol	mg/kg							
Resorcinol	mg/kg							
Cresols	mg/kg			<0.11	<0.12	<0.12	<0.12	
Xylenols & Ethylphenols	mg/kg			<0.11	<0.12	<0.12	<0.12	
Naphthols	mg/kg							
Trimethylphenol	mg/kg			<0.11	<0.12	<0.12	<0.12	
2,4-Dimethylphenol	mg/kg							
Total Phenols	mg/kg							
BTEX								
Benzene	mg/kg	27		<0.012	<0.012	<0.013	<0.012	
Toluene	mg/kg	56000 (869)		<0.012	<0.012	<0.013	<0.012	
Ethylbenzene	mg/kg	5700 (518)		<0.012	<0.012	<0.013	<0.012	
o-xylene	mg/kg	6600 (478*)		<0.012	<0.012	<0.013	<0.012	
m-xylene	mg/kg	6200 (625)						
p-xylene	mg/kg	5900 (576*)						
m,p-xylene		#N/A		<0.024	<0.024	<0.025	<0.024	
Total Xylenes (calculated for HWO)	mg/kg	#N/A						
Total BTEX		#N/A		<0.072	<0.073	<0.076	<0.073	
MTBE		#N/A		<0.024	<0.024	<0.025	<0.024	
PAH by GCMS								
Naphthalene	mg/kg	190 (76.4*)		<0.10	<0.10	<0.10	<0.10	
Acenaphthylene	mg/kg	83000 (86.1*)		<0.10	<0.10	<0.10	<0.10	
Acenaphthene	mg/kg	84000 (57*)		<0.10	<0.10	<0.10	<0.10	
Fluorene	mg/kg	63000 (30.9*)		<0.10	<0.10	<0.10	<0.10	
Phenanthrene	mg/kg	22000		<0.10	<0.10	<0.10	<0.10	
Anthracene	mg/kg	520000		<0.10	<0.10	<0.10	<0.10	
Fluoranthene	mg/kg	23000		<0.10	<0.10	<0.10	<0.10	
Pyrene	mg/kg	54000		<0.10	<0.10	<0.10	<0.10	
Benzo(a)anthracene	mg/kg	170		<0.10	<0.10	<0.10	<0.10	
Chrysene	mg/kg	350		<0.10	<0.10	<0.10	<0.10	
Benzo(b)fluoranthene	mg/kg	44		<0.10	<0.10	<0.10	<0.10	
Benzo(k)fluoranthene	mg/kg	1200		<0.10	<0.10	<0.10	<0.10	
Benzo(a)pyrene	mg/kg	35		<0.10	<0.10	<0.10	<0.10	
Indeno(1,2,3-cd)pyrene	mg/kg	500		<0.10	<0.10	<0.10	<0.10	
Dibenzo(a,h)anthracene	mg/kg	3.5		<0.10	<0.10	<0.10	<0.10	
Benzo(g,h,i)perylene	mg/kg	3900		<0.10	<0.10	<0.10	<0.10	
Coronene	mg/kg			<0.10	<0.10	<0.10	<0.10	
Coal Tar	mg/kg	15						
Polyaromatic hydrocarbons, Total 17	mg/kg			<1.64	<1.65	<1.71	<1.65	
Benzo(j)fluoranthene	mg/kg							
Sum of detected PCB 7 Congeners	mg/kg			<0.042	<0.042	<0.044	<0.043	
Dioxins and similar PCBs (equiv)	mg/kg							
Petroleum Hydrocarbon (1% SOM)								
Aliphatics >C5-C6	mg/kg	3200 (304*)		<0.241	<0.242	<0.252	<0.243	
Aliphatics >C6-C8	mg/kg	7800 (144*)		<0.241	<0.242	<0.252	<0.243	
Aliphatics >C8-C10	mg/kg	2000 (78*)		<0.241	<0.242	<0.252	<0.243	
Aliphatics >C10-C12	mg/kg	9700 (48*)		<4.83	<4.84	<5.03	<4.85	

	Screening Criteria	S4UL Reference Page	Sample ID	3W8563TP	3W8567SA	3W8567SA	3W8567SA	3W8567SA
	GAC Land Use	Commercial	Sample Depth	3.0	0.5	2.3	2.9	7.2
	SOM	1.0%	Sample GEOL GEOL	LC	MGR	MGR	LC	LC
Analyte	***Units***		**Lab ID**	#02067759773 70011	#89155294368 40006	#89155294368 40012	#89155294368 40016	#89155294368 40027
Aliphatics >C12-C16	mg/kg	59000 (24*)		<4.83	<4.84	<5.03	<4.85	
Aliphatics >C16-C21	mg/kg			<4.83	<4.84	<5.03	<4.85	
Aliphatic EC16 - 35	mg/kg	1600000						
Aliphatics >C21-C35	mg/kg			<12.1	<12.1	<12.6	<12.1	
Aliphatics >C35-C44	mg/kg	1600000		<7.24	<7.26	<7.55	<7.28	
Aromatics >EC5-EC7	mg/kg	26000 (1220*)						
Aromatics >EC7-EC8	mg/kg	56000 (869)		<0.012	<0.012	<0.013	<0.012	
Aromatics >EC8-EC10	mg/kg	3500 (613)		<0.048	<0.048	<0.051	<0.049	
Aromatics >EC10-EC12	mg/kg	16000 (364*)		<4.83	<4.84	<5.03	<4.85	
Aromatics >EC12-EC16	mg/kg	36000 (169*)		<4.83	<4.84	<5.03	<4.00	
Aromatics >EC16-EC21	mg/kg	28000		<4.83	7.96	<5.03	<4.85	
Aromatics >EC21-EC35	mg/kg	28000		<12.1	<12.1	<12.6	12.4	
Aromatics >EC35-EC44	mg/kg	28000		<7.24	<7.26	<7.55	<7.28	
Ali&Aro EC44-70	mg/kg	28000						
Petrol Range Organics^	mg/kg							
Diesel Range Organics^	mg/kg							
Sum of C5-C44 Ali/Aro (CWG)	mg/kg	#N/A		0	7.96	0	12.4	0
TPH >C10-C40	mg/kg			<24.1	<24.2	<25.2	<24.3	38
1,2,4-Trimethylbenzene	mg/kg							
Isopropylbenzene	mg/kg							
Propylbenzene	mg/kg							
Styrene	mg/kg							
TPH MAX Value				<24.1	8.0	<25.2	12.4	38.0
Volatile Organic Compounds								
Vinyl Chloride	mg/kg	0.059						
1,1-Dichloroethene	mg/kg							
Dichloromethane	mg/kg							
trans-1,2-Dichloroethene	mg/kg							
1,1-Dichloroethane	mg/kg							
2,2-Dichloropropane	mg/kg							
cis-1,2-Dichloroethene	mg/kg							
Bromochloromethane	mg/kg							
Chloroform	mg/kg	99						
1,1,1-Trichloroethane	mg/kg	660						
Carbontetrachloride	mg/kg	2.9						
1,1-Dichloropropene	mg/kg							
1,2-Dichloroethane	mg/kg	0.67						
1,2-Dichloropropane	mg/kg							
Dibromomethane	mg/kg							
Bromodichloromethane	mg/kg							
trans-1,3-Dichloropropene	mg/kg							
cis-1,3-Dichloropropene	mg/kg							
1,1,2-Trichloroethane	mg/kg							
1,3-Dichloropropane	mg/kg							
Dibromochloromethane	mg/kg							
1,2-Dibromoethane	mg/kg							
Chlorobenzene	mg/kg	56						
1,1,2,2-Tetrachloroethane	mg/kg	270						
1,1,1,2-Tetrachloroethane	mg/kg	110						
Trichloroethene	mg/kg	1.2						
Tetrachloroethene	mg/kg	19						
2,4,6 Trinitrotoluene (TNT)	mg/kg	1000						
HMX	mg/kg	110000						
RDX	mg/kg	210000						
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	1700 (122)						
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	49 (39.4)						
1,2,4,5-Tetrachlorobenzene	mg/kg	42 (19.7*)						
Pentachlorobenzene (PeCB)	mg/kg	640 (43*)						
Carbon Disulphide	mg/kg	11						
Hexachlorobutadiene	mg/kg	31						
2,4-Dinitrotoluene	mg/kg							
2,6-Dinitrotoluene	mg/kg							
2-Chloronaphthalene	mg/kg							
Biphenyl	mg/kg							
Bromobenzene	mg/kg							
Bromoform	mg/kg							
Chloroethane	mg/kg							
Chloromethane	mg/kg							
bis(2-Ethylhexyl) phthalate	mg/kg							
Butylbenzyl phthalate	mg/kg							
Diethyl phthalate	mg/kg							
n-Dibutyl phthalate	mg/kg							
n-Dioctyl phthalate	mg/kg							
Herbicides/Insecticides								
Aldrin	mg/kg	170						
Dieldrin	mg/kg	170						
Atrazine	mg/kg	9300						
Dichlorvos (DDVP)	mg/kg	140						
Alpha-Endosulfan	mg/kg	5600 (0.003)						
Beta-Endosulfan	mg/kg	6300 (0.00007)						
Alpha-Hexachlorocyclohexanes	mg/kg	170						
Beta-Hexachlorocyclohexanes	mg/kg	65						
Gamma-Hexachlorocyclohexanes	mg/kg	67						
1,2-Dichlorobenzene	mg/kg	2000 (571*)						
1,3-Dichlorobenzene	mg/kg	30						
1,4-Dichlorobenzene	mg/kg	4400 (224)						
1,2,3-Trichlorobenzene	mg/kg	102						
1,2,4-Trichlorobenzene	mg/kg	220						
1,3,5-Trichlorobenzene	mg/kg	23						
Hexachlorobenzene	mg/kg	110 (0.2)						
Hexachloroethane	mg/kg							
Total CFC (for Haz)	mg/kg							
Moisture.								
Moisture Content Ratio (% of as received sample)	%			17.1	17.4	20.5	17.6	17.3
PFOA/PFOS								
PFOA	mg/kg	0.6						
PFOS	mg/kg	0.6						
PFHxS	mg/kg	0.6						
PFNA	mg/kg	0.6						
Hazard Quotient	%	1						

				LOC ID	2F3503SA	3W8553DS	3W8553DS	3W8553DS	3W8556DS	3W8559TP	3W8560HP	3W8563TP	3W8558SA	3W8558SA
				DEPTH	0.50	0.50	1.50	4.50	1.70	0.10	1.00	1.00	0.50	3.80
			Assessment Criteria	LAB ID	G2034-2220230317024948	#16775160383700 06	#16775160383700 12	#16775160383700 20	G4011-24 Phase 3B/C20240507095 801	#72074529748300 02	#04750547001400 05	#02067759773700 07		
Analyte	Units	LOD	Human Consumption	LAB RECEIVED DATE	22/03/2023	09/05/2024	09/05/2024	09/05/2024	14/05/2024	30/05/2024	14/05/2024	17/05/2024	25/04/2024	25/04/2024
Alkalinity as CaCO3	µg/l		-											
Arsenic	µg/l	1	10		<1.0	<1.0	<1.0	<1.0			1			
Boron	µg/l	10	1000		30	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10
Cadmium	µg/l	0.02	5		<0.02	0.02	<0.02	<0.02	0.03	0.06	0.04	<0.02	<0.02	<0.02
Chromium (Total)	µg/l	1	50		7	<1.0	2	<1.0			2			
Chromium Trivalent	µg/l	3	-		<3.0	<3.0	<3.0	<3.0			<3.0			
Chromium Hexavalant	µg/l	3	-		7	<3.0	<3.0	<3.0	<3.0	14	10	<3.0	21	<3.0
Copper	µg/l	1	2000		3	<1.0	<1.0	<1.0	<1.0	3	<1.0	<1.0	4	<1.0
Iron	µg/l		200			150	50	<10.0						
Lead	µg/l	1	10		<1.0	<1.0	<1.0	<1.0	<1.0	4	1	<1.0	1	<1.0
Mercury	µg/l	0.03	1		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Manganese	µg/l		50			<2.0	<2.0	<2.0						
Fluoride	µg/l	1	1500		700	300	500	300	200	600	<100.0	900	500	1400
Nickel	µg/l	1	20		1	<1.0	<1.0	<1.0	2	1	<1.0	<1.0	3	<1.0
Selenium	µg/l	1	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc	µg/l	2	5000		<2.0	<2.0	<2.0	<2.0	2	4	3	2	3	3
Total Ammonia (N)	µg/l	20	-		49.4	<16.5	<16.5	<16.5	<16.5	<16.5	<16.5	<16.5		
Ammoniacal Nitrogen as N	µg/l	20	-			10	<10.0	<10.0						
Ammoniacal Nitrogen as NH3	µg/l	20	-		60	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Ammonium (NH4)	µg/l	20	500		63.5	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2	<21.2
Chloride	µg/l	1000	250000		2000	<1000.0	3000	<1000.0	49000	14000	2000	2000	2000	<1000
Chlorine	µg/l		-											
Cyanide	µg/l	20	50		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Nitrate as NO3	µg/l	900	50000		<900.0	7500	2800	1400	6300	30200	3300	3900	1200	1300
Nitrite as NO2	µg/l	40	500		<40.0	50	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	180	<40.0
Phenol	µg/l		0.5			<100.0	<100.0	<100.0					11	58
Pentachlorophenol	µg/l	0.04	-			<20.0	<20.0	<20.0						
PCBs	µg/l		-											
Sodium	µg/l		200000											
Sulphate	µg/l	3000	250000		19000	<3000.0	44000	3000	316000	6000	7000	<3000.0	3000	<3000
pH	pH Units	1	-		7.6	7.9	7.8	7.8	7.1	8.1	7.8	8	7.9	7.8
Dichloromethane	µg/l		-											
1,2 Dichloroethane	µg/l		3			<1	<1	<1						
Trichloroethene (PCE)	µg/l		10			<5	<5	<5						
1,1,1 Trichloroethane	µg/l		-			<1	<1	<1						
1,1,2 Trichloroethane	µg/l		-			<1	<1	<1						
Trichloromethane (Chloroform)	µg/l		100			<5	<5	<5						
1,2,3 Trichlorobenzene	µg/l	0.01	-			<0.05	<0.05	<0.05						
1,2,4 Trichlorobenzene	µg/l		-			<5	<5	<5						
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		-											
Tetrachloroethene	µg/l		10			<5	<5	<5						
Tetrachloromethane	µg/l		3			<1	<1	<1						
1,1,1,2 Tetrachloroethane	µg/l		-			<1	<1	<1						
Vinyl Chloride (Chloroethene)	µg/l		0.5			<1	<1	<1						
>C5 to C6 Aliphatic	µg/l	100	10			<100.0	<100.0	<100.0	<100.0	<100.0		<100.0	<100.0	<100.0
>C6 to C8 Aliphatic	µg/l	100	10			<100.0	<100.0	<100.0	<100.0	<100.0		<100.0	<100.0	<100.0
>C8 to C10 Aliphatic	µg/l	100	10			<100.0	<100.0	<100.0	<100.0	<100.0		<100.0	<100.0	<100.0
>C10 to C12 Aliphatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C12 to C16 Aliphatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C16 to C21 Aliphatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C21 to C35 Aliphatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	130	20
>C35 to C44 Aliphatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<10.0	<10.0
Total Aliphatic C5-35	µg/l	340	-											
>C5 to C7 Aromatic	µg/l	5	10			<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
>C7 to C8 Aromatic	µg/l	5	10			<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
>C8 to C10 Aromatic	µg/l	20	10			<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0
>C10 to C12 Aromatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C12 to C16 Aromatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C16 to C21 Aromatic	µg/l	10	10			<100.0	<100.0	<100.0	<10.0	<10.0		<10.0	<100.0	<10.0
>C21 to C35 Aromatic	µg/l	10	10			<100.0	<100.0	<100.0	10	<10.0		70	150	20
>C35 to C44 Aromatic	µg/l	10	10			<100.0	100	<100.0	<10.0	<10.0		20	<100.0	<10.0
Total Aromatic C5-C35	µg/l	70	-											

				LOC ID	2F3503SA	3W8553DS	3W8553DS	3W8553DS	3W8556DS	3W8559TP	3W8560HP	3W8563TP	3W8558SA	3W8558SA
				DEPTH	0.50	0.50	1.50	4.50	1.70	0.10	1.00	1.00	0.50	3.80
			Assessment Criteria	LAB ID	G2034-2220230317024948	#16775160383700 06	#16775160383700 12	#16775160383700 20	G4011-24 Phase 3B/C20240507095 801	#72074529748300 02	#04750547001400 05	#02067759773700 07		
Analyte	Units	LOD	Human Consumption	LAB RECEIVED DATE	22/03/2023	09/05/2024	09/05/2024	09/05/2024	14/05/2024	30/05/2024	14/05/2024	17/05/2024	25/04/2024	25/04/2024
TPH Ali/Aro	µg/l	410	10		120.0 (TPH >C6-40)	<100.0 (GRO >C5-10) , <100.0 (GRO >C5-10) , 130.0 (Aliphatics >C8-40) , <100.0 (Aliphatics >C8-40) , 110.0 (Aromatics >C8-40) , <100.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , 120.0 (Aliphatics >C8-40) , 240.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , <100.0 (GRO >C5-10) , <100.0 (Aliphatics >C8-40) , <100.0 (Aliphatics >C8-40) , <100.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 30.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , <10.0 (Aromatics >C8-40)	<440.0 (TPH >C6-40)	<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 90.0 (Aromatics >C8-40)	Total TPH >C8 - C40 (Aliphatics) 280, Total TPH >C8 - C40 (Aromatics) 270	Total TPH >C8 - C40 (Aliphatics) 40, Total TPH >C8 - C40 (Aromatics) 40
Benzene	µg/l	1	1		<1	<1	<1	<1	<5	<5	<1	<5	<5	<5
Ethylbenzene	µg/l	0.5	300		<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<5	<5
Toluene	µg/l	1	700		<1	<1	<1	<1	<5	<5	<1	<5	<5	<5
Xylene	µg/l		500											
M- & P-Xylene	µg/l	1	-		<1	<1	<1	<1	<10	<10	<1	<10	<10	<10
O-Xylene	µg/l	1	-		<1	<1	<1	<1	<5	<5	<1	<5	<5	<5
Total Xylene (M, P & O)	µg/l	2	-											
MTBE	µg/l	1	15		<1	<1	<1	<1	<10	<10	<1	<10	<10	<10
naphthalene	µg/l	0.01	-		0.02	0.2	0.15	0.38	0.08	<0.10	<0.04	0.35	41.6	0.02
acenaphthylene	µg/l	0.01	-		<0.01	<0.01	0.02	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
acenaphthene	µg/l	0.01	-		0.03	0.1	0.13	0.06	0.1	<0.10	<0.04	0.08	0.2	<0.01
fluorene	µg/l	0.01	-		<0.01	0.03	0.09	0.07	0.04	<0.10	<0.04	0.05	<0.10	<0.01
phenanthrene	µg/l	0.01	-		<0.01	<0.01	0.04	0.02	<0.01	<0.10	<0.04	0.01	<0.10	<0.01
anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
fluoranthene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
pyrene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
benzo(a)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
chrysene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
benzo(b)fluoranthene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
benzo(k)fluoranthene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
benzo(a)pyrene	µg/l	0.01	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
benzo(g,h,i)perylene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
indeno(1,2,3-c,d)pyrene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.04	<0.01	<0.10	<0.01
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	0.1											
Total PAH	µg/l	0.16	-		0.19	0.46	0.57	0.65	0.35	<1.60	<0.64	0.61	43.2	0.22
PFOA														
PFOS														

				3W8567SA	3W8567SA
				0.50	2.90
			Assessment Criteria	#89155294368400 06	#89155294368400 16
Analyte	Units	LOD	Human Consumption	30/05/2024	30/05/2024
Alkalinity as CaCO3	µg/l		-		
Arsenic	µg/l	1	10	<1.0	<1.0
Boron	µg/l	10	1000	<10.0	<10.0
Cadmium	µg/l	0.02	5	0.02	<0.02
Chromium (Total)	µg/l	1	50	<1.0	<1.0
Chromium Trivalent	µg/l	3	-	<3.0	<3.0
Chromium Hexavalant	µg/l	3	-	<3.0	<3.0
Copper	µg/l	1	2000	<1.0	<1.0
Iron	µg/l		200		
Lead	µg/l	1	10	<1.0	<1.0
Mercury	µg/l	0.03	1	<0.03	<0.03
Manganese	µg/l		50		
Fluoride	µg/l	1	1500	1400	500
Nickel	µg/l	1	20	<1.0	<1.0
Selenium	µg/l	1	10	<1.0	<1.0
Zinc	µg/l	2	5000	<2.0	2
Total Ammonia (N)	µg/l	20	-	<16.5	<16.5
Ammoniacal Nitrogen as N	µg/l	20	-		
Ammoniacal Nitrogen as NH3	µg/l	20	-	<20.0	<20.0
Ammonium (NH4)	µg/l	20	500	<21.2	<21.2
Chloride	µg/l	1000	250000	4000	8000
Chlorine	µg/l		-		
Cyanide	µg/l	20	50	<20.0	20
Nitrate as NO3	µg/l	900	50000	5000	1600
Nitrite as NO2	µg/l	40	500	<40.0	<40.0
Phenol	µg/l		0.5		
Pentachlorophenol	µg/l	0.04	-		
PCBs	µg/l		-		
Sodium	µg/l		200000		
Sulphate	µg/l	3000	250000	4000	14000
pH	pH Units	1	-	8	8
Dichloromethane	µg/l		-		
1,2 Dichloroethane	µg/l		3		
Trichloroethene (PCE)	µg/l		10		
1,1,1 Trichloroethane	µg/l		-		
1,1,2 Trichloroethane	µg/l		-		
Trichloromethane (Chloroform)	µg/l		100		
1,2,3 Trichlorobenzene	µg/l	0.01	-		
1,2,4 Trichlorobenzene	µg/l		-		
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		-		
Tetrachloroethene	µg/l		10		
Tetrachloromethane	µg/l		3		
1,1,1,2 Tetrachloroethane	µg/l		-		
Vinyl Chloride (Chloroethene)	µg/l		0.5		
>C5 to C6 Aliphatic	µg/l	100	10		
>C6 to C8 Aliphatic	µg/l	100	10		
>C8 to C10 Aliphatic	µg/l	100	10		
>C10 to C12 Aliphatic	µg/l	10	10		
>C12 to C16 Aliphatic	µg/l	10	10		
>C16 to C21 Aliphatic	µg/l	10	10		
>C21 to C35 Aliphatic	µg/l	10	10		
>C35 to C44 Aliphatic	µg/l	10	10		
Total Aliphatic C5-35	µg/l	340	-		
>C5 to C7 Aromatic	µg/l	5	10		
>C7 to C8 Aromatic	µg/l	5	10		
>C8 to C10 Aromatic	µg/l	20	10		
>C10 to C12 Aromatic	µg/l	10	10		
>C12 to C16 Aromatic	µg/l	10	10		
>C16 to C21 Aromatic	µg/l	10	10		
>C21 to C35 Aromatic	µg/l	10	10		
>C35 to C44 Aromatic	µg/l	10	10		
Total Aromatic C5-C35	µg/l	70	-		

				3W8567SA	3W8567SA
				0.50	2.90
			Assessment Criteria	#89155294368400 06	#89155294368400 16
Analyte	Units	LOD	Human Consumption	30/05/2024	30/05/2024
TPH Ali/Aro	µg/l	410	10	<110.0 (TPH >C6-40)	<232.0 (TPH >C6-40)
Benzene	µg/l	1	1	<1	<1
Ethylbenzene	µg/l	0.5	300	<0.5	<0.5
Toluene	µg/l	1	700	<1	<1
Xylene	µg/l		500		
M- & P-Xylene	µg/l	1	-	<1	<1
O-Xylene	µg/l	1	-	<1	<1
Total Xylene (M, P & O)	µg/l	2	-		
MTBE	µg/l	1	15	<1	<1
naphthalene	µg/l	0.01	-	<0.01	0.48
acenaphthylene	µg/l	0.01	-	<0.01	<0.02
acenaphthene	µg/l	0.01	-	0.02	0.13
fluorene	µg/l	0.01	-	<0.01	<0.02
phenanthrene	µg/l	0.01	-	<0.01	<0.02
anthracene	µg/l	0.01	-	<0.01	<0.02
fluoranthene	µg/l	0.01	-	<0.01	<0.02
pyrene	µg/l	0.01	-	<0.01	<0.02
benzo(a)anthracene	µg/l	0.01	-	<0.01	<0.02
chrysene	µg/l	0.01	-	<0.01	<0.02
benzo(b)fluoranthene	µg/l	0.01	0.1	<0.01	<0.02
benzo(k)fluoranthene	µg/l	0.01	0.1	<0.01	<0.02
benzo(a)pyrene	µg/l	0.01	0.01	<0.01	<0.02
benzo(g,h,i)perylene	µg/l	0.01	0.1	<0.01	<0.02
dibenzo(ah)anthracene	µg/l	0.01	-	<0.01	<0.02
indeno(1,2,3-c,d)pyrene	µg/l	0.01	0.1	<0.01	<0.02
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	0.1		
Total PAH	µg/l	0.16	-	0.17	0.9
PFOA					
PFOS					

				LOC ID	2F3503SA
				DEPTH	0.50
			Assessment Criteria	LAB ID	G2034-2220230317024948
Analyte	Units	LOD	Fresh Water	LAB RECEIVED DATE	22/03/2023
Alkalinity as CaCO3	µg/l		-		
Arsenic	µg/l	1	50		<1.0
Boron	µg/l	10	-		30
Cadmium	µg/l	0.02	0.08		<0.02
Chromium (Total)	µg/l	1	-		7
Chromium Trivalent	µg/l	3	4.7		<3.0
Chromium Hexavalant	µg/l	3	3.4		7
Copper	µg/l	1	1		3
Iron	µg/l		1000		
Lead	µg/l	1	1.2		<1.0
Mercury	µg/l	0.03	0.07		<0.03
Manganese	µg/l		123		
Fluoride	µg/l	1	-		700
Nickel	µg/l	1	4		1
Selenium	µg/l	1	-		<1.0
Zinc	µg/l	2	10.9		<2.0
Total Ammonia (N)	µg/l	20	200		49.4
Ammoniacal Nitrogen as N	µg/l	20	-		
Ammoniacal Nitrogen as NH3	µg/l	20	-		60
Ammonium (NH4)	µg/l	20	-		63.5
Chloride	µg/l	1000	-		2000
Chlorine	µg/l		2		
Cyanide	µg/l	20	1		<20.0
Nitrate as NO3	µg/l	900	-		<900.0
Nitrite as NO2	µg/l	40	-		<40.0
Phenol	µg/l		7.7		
Pentachlorophenol	µg/l	0.04	0.4		
PCBs	µg/l		-		
Sodium	µg/l		-		
Sulphate	µg/l	3000	-		19000
pH	pH Units	1	-		7.6
Dichloromethane	µg/l		-		
1,2 Dichloroethane	µg/l		10		
Trichloroethene (PCE)	µg/l		10		
1,1,1 Trichloroethane	µg/l		-		
1,1,2 Trichloroethane	µg/l		-		
Trichloromethane (Chloroform)	µg/l		2.5		
1,2,3 Trichlorobenzene	µg/l	0.01	-		
1,2,4 Trichlorobenzene	µg/l		-		
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		0.4		
Tetrachloroethene	µg/l		10		
Tetrachloromethane	µg/l		12		
1,1,1,2 Tetrachloroethane	µg/l		140		
Vinyl Chloride (Chloroethene)	µg/l		-		
>C5 to C6 Aliphatic	µg/l	100	-		
>C6 to C8 Aliphatic	µg/l	100	-		
>C8 to C10 Aliphatic	µg/l	100	-		
>C10 to C12 Aliphatic	µg/l	10	-		
>C12 to C16 Aliphatic	µg/l	10	-		
>C16 to C21 Aliphatic	µg/l	10	-		
>C21 to C35 Aliphatic	µg/l	10	-		
>C35 to C44 Aliphatic	µg/l	10	-		
Total Aliphatic C5-35	µg/l	340	-		
>C5 to C7 Aromatic	µg/l	5	-		
>C7 to C8 Aromatic	µg/l	5	-		
>C8 to C10 Aromatic	µg/l	20	-		
>C10 to C12 Aromatic	µg/l	10	-		
>C12 to C16 Aromatic	µg/l	10	-		
>C16 to C21 Aromatic	µg/l	10	-		
>C21 to C35 Aromatic	µg/l	10	-		
>C35 to C44 Aromatic	µg/l	10	-		
Total Aromatic C5-C35	µg/l	70	-		
TPH Ali/Aro	µg/l	410	-		120.0 (TPH >C6-40)
Benzene	µg/l	1	10		<1
Ethylbenzene	µg/l	0.5	-		<0.5
Toluene	µg/l	1	74		<1
Xylene	µg/l		30		
M- & P-Xylene	µg/l	1	-		<1
O-Xylene	µg/l	1	-		<1
Total Xylene (M, P & O)	µg/l	2	-		
MTBE	µg/l	1	-		<1
naphthalene	µg/l	0.01	2		0.02
acenaphthylene	µg/l	0.01	-		<0.01
acenaphthene	µg/l	0.01	-		0.03
fluorene	µg/l	0.01	-		<0.01
phenanthrene	µg/l	0.01	-		<0.01
anthracene	µg/l	0.01	0.1		<0.01
fluoranthene	µg/l	0.01	0.0063		<0.01
pyrene	µg/l	0.01	-		<0.01
benzo(a)anthracene	µg/l	0.01	-		<0.01
chrysene	µg/l	0.01	-		<0.01
benzo(b)fluoranthene	µg/l	0.01	0.017		<0.01
benzo(k)fluoranthene	µg/l	0.01	0.017		<0.01
benzo(a)pyrene	µg/l	0.01	0.00017		<0.01
benzo(g,h,i)perylene	µg/l	0.01	0.0082		<0.01
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01
indeno(1,2,3-c,d)pyrene	µg/l	0.01	-		<0.01
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	-		
Total PAH	µg/l	0.16	-		0.19
PFOA					
PFOS					

				LOC ID	2F3502SA	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3503SA	3W8558SA	3W8567SA	3W8567SA
				DEPTH	12.00	13.50	6.79	11.00	12.50	7.50	6.04	2.65	2.69
			Assessment Criteria	LAB ID		2F3502SAW190723101031	2F3502SAW134814		2F3503SAW134747	2F3503SAW140723101153	#0276817106770033	#9115658467210028	#9115658467210029
Analyte	Units	LOD	Human Consumption	LAB RECEIVED DATE	20/01/2024	22/07/2023	14/09/2023	20/01/2024	14/09/2023	15/07/2023	23/05/2024	23/05/2024	01/06/2024
Alkalinity as CaCO3	µg/l		-										
Arsenic	µg/l	1	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
Boron	µg/l	10	1000		<10.0	20	20	<10.0	40	110	50	730	510
Cadmium	µg/l	0.02	5		<0.02	<0.02	0.08	<0.02	<0.02	<0.02	0.07	<0.02	<0.02
Chromium (Total)	µg/l	1	50		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium Trivalent	µg/l	3	-		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium Hexavalant	µg/l	3	-		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Copper	µg/l	1	2000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0	<1.0
Iron	µg/l		200										
Lead	µg/l	1	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury	µg/l	0.03	1		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Manganese	µg/l		50										
Fluoride	µg/l	1	1500		100	<100.0	100	100	100	100	500	200	500
Nickel	µg/l	1	20		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3	2	<1.0
Selenium	µg/l	1	10		1	<1.0	<1.0	1	<1.0	<1.0	5	23	8
Zinc	µg/l	2	5000		4	12	13	7	9	10	11	12	13
Total Ammonia (N)	µg/l	20	-		<16.5	<16.5	<16.5	<16.5	<16.5	32.9	0.0	41.2	<16.5
Ammoniacal Nitrogen as N	µg/l	20	-										
Ammoniacal Nitrogen as NH3	µg/l	20	-		<20.0	<20.0	<20.0	<20.0	<20.0	40		50	<20.0
Ammonium (NH4)	µg/l	20	500		<21.2	<21.2	<21.2	<21.2	<21.2	42.4	0.0	52.9	<21.2
Chloride	µg/l	1000	250000		25000	26000	27000	29000	28000	48000	24000	562000	203000
Chlorine	µg/l		-										
Cyanide	µg/l	20	50		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Nitrate as NO3	µg/l	900	50000		53000	49300	47600	33500	35200	34500		15500	4400
Nitrite as NO2	µg/l	40	500		<40.0	<40.0	<40.0	<40.0	<40.0	<40.0		100	<40.0
Phenol	µg/l		0.5							<0.0000005	<0.0000005	<0.0000005	0.0000009
Pentachlorophenol	µg/l	0.04	-										
PCBs	µg/l		-										
Sodium	µg/l		200000		11000	13000	13000	15000	16000	34000			
Sulphate	µg/l	3000	250000		25000	27000	22000	23000	21000	28000	20000	280000	108000
pH	pH Units	1	-		7.4	7.3	7.3	7.4	7.3	7.7	7.4	7.7	7.8
Dichloromethane	µg/l		-										
1,2 Dichloroethane	µg/l		3										
Trichloroethene (PCE)	µg/l		10										
1,1,1 Trichloroethane	µg/l		-										
1,1,2 Trichloroethane	µg/l		-										
Trichloromethane (Chloroform)	µg/l		100										
1,2,3 Trichlorobenzene	µg/l	0.01	-										
1,2,4 Trichlorobenzene	µg/l		-										
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		-										
Tetrachloroethene	µg/l		10										
Tetrachloromethane	µg/l		3										
1,1,1,2 Tetrachloroethane	µg/l		-										
Vinyl Chloride (Chloroethene)	µg/l		0.5										
>C5 to C6 Aliphatic	µg/l	100	10								<100.0	<100.0	<100.0
>C6 to C8 Aliphatic	µg/l	100	10								<100.0	<100.0	<100.0
>C8 to C10 Aliphatic	µg/l	100	10								<100.0	<100.0	<100.0
>C10 to C12 Aliphatic	µg/l	10	10								<200.0	<200.0	<100.0
>C12 to C16 Aliphatic	µg/l	10	10								<200.0	<200.0	<100.0
>C16 to C21 Aliphatic	µg/l	10	10								<200.0	<200.0	<100.0
>C21 to C35 Aliphatic	µg/l	10	10								<200.0	470	<100.0
>C35 to C44 Aliphatic	µg/l	10	10								<200.0	<200.0	<100.0
Total Aliphatic C5-35	µg/l	340	-										
>C5 to C7 Aromatic	µg/l	5	10								<5.0	<5.0	<5.0
>C7 to C8 Aromatic	µg/l	5	10								<5.0	<5.0	<5.0
>C8 to C10 Aromatic	µg/l	20	10								<20.0	<20.0	<20.0
>C10 to C12 Aromatic	µg/l	10	10								<200.0	210	<100.0
>C12 to C16 Aromatic	µg/l	10	10								<200.0	350	<100.0
>C16 to C21 Aromatic	µg/l	10	10								<200.0	290	<100.0
>C21 to C35 Aromatic	µg/l	10	10								<200.0	470	<100.0
>C35 to C44 Aromatic	µg/l	10	10								<200.0	360	<100.0
Total Aromatic C5-C35	µg/l	70	-										
TPH Ali/Aro	µg/l	410	10		<100.0 (GRO >C6-10) , 20.0 (EPH >C10-40) , 120.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , <200.0 (EPH >C10-40) , <2200.0 (TPH >C6-40)	<200.0 (GRO >C6-10) , 20.0 (EPH >C10-40) , 220.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , 10.0 (EPH >C10-40) , 110.0 (TPH >C6-40)	<200.0 (GRO >C6-10) , 10.0 (EPH >C10-40) , <220.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , <40.0 (EPH >C10-40) , <440.0 (TPH >C6-40)	<100.0 (GRO >C5-10) , 230.0 (Aliphatics >C8-40) , <200.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , 920.0 (Aliphatics >C8-40) , 1600.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , 130.0 (Aliphatics >C8-40) , <100.0 (Aromatics >C8-40)
Benzene	µg/l	1	1		<1	<1	<1	<1	<1	<1	<5	<5	<5
Ethylbenzene	µg/l	0.5	300		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5
Toluene	µg/l	1	700		<1	<1	<1	<1	<1	<1	<5	<5	<5
Xylene	µg/l		500										
M- & P-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1	<10	<10	<10
O-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1	<5	<5	<5
Total Xylene (M, P & O)	µg/l	2	-										
MTBE	µg/l	1	15		<1	<1	<1	<1	<1	<1	<10	<10	<10
naphthalene	µg/l	0.01	-		0.02	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
acenaphthylene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10

				LOC ID	2F3502SA	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3503SA	3W8558SA	3W8567SA	3W8567SA
				DEPTH	12.00	13.50	6.79	11.00	12.50	7.50	6.04	2.65	2.69
			Assessment Criteria	LAB ID		2F3502SAW190723101031	2F3502SAW134814		2F3503SAW134747	2F3503SAW140723101153	#0276817106770033	#9115658467210028	#9115658467210029
Analyte	Units	LOD	Human Consumption	LAB RECEIVED DATE	20/01/2024	22/07/2023	14/09/2023	20/01/2024	14/09/2023	15/07/2023	23/05/2024	23/05/2024	01/06/2024
acenaphthene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
fluorene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
phenanthrene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
fluoranthene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
pyrene	µg/l	0.01	-		<0.01	<0.01	0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
benzo(a)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
chrysene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
benzo(b)fluoranthene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
benzo(k)fluoranthene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
benzo(a)pyrene	µg/l	0.01	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
benzo(g,h,i)perylene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
indeno(1,2,3-c,d)pyrene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.20	<0.20	<0.10
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	0.1										
Total PAH	µg/l	0.16	-		0.17	<0.16	0.16	<0.16	<0.16	<0.64	<3.20	<3.20	<1.60
PFOS	µg/l	0.01	0.1										
PFOA	µg/l	0.01	0.1										

				LOC ID	2F3502SA	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3503SA
				DEPTH	12.00	13.50	6.79	11.00	12.50	7.50
			Assessment Criteria	LAB ID		2F3502SAW190723101031	2F3502SAW134814		2F3503SAW134747	2F3503SAW140723101153
Analyte	Units	LOD	Fresh Water	LAB RECEIVED DATE	20/01/2024	22/07/2023	14/09/2023	20/01/2024	14/09/2023	15/07/2023
Alkalinity as CaCO3	µg/l		-							
Arsenic	µg/l	1	50		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron	µg/l	10	-		<10.0	20	20	<10.0	40	110
Cadmium	µg/l	0.02	0.08		<0.02	<0.02	0.08	<0.02	<0.02	<0.02
Chromium (Total)	µg/l	1	-		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium Trivalent	µg/l	3	4.7		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium Hexavalant	µg/l	3	3.4		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Copper	µg/l	1	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	µg/l		1000							
Lead	µg/l	1	1.2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury	µg/l	0.03	0.07		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Manganese	µg/l		123							
Fluoride	µg/l	1	-		100	<100.0	100	100	100	100
Nickel	µg/l	1	4		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	µg/l	1	-		1	<1.0	<1.0	1	<1.0	<1.0
Zinc	µg/l	2	10.9		4	12	13	7	9	10
Total Ammonia (N)	µg/l	20	200		<16.5	<16.5	<16.5	<16.5	<16.5	32.9
Ammoniacal Nitrogen as N	µg/l	20	-							
Ammoniacal Nitrogen as NH3	µg/l	20	-		<20.0	<20.0	<20.0	<20.0	<20.0	40
Ammonium (NH4)	µg/l	20	-		<21.2	<21.2	<21.2	<21.2	<21.2	42.4
Chloride	µg/l	1000	-		25000	26000	27000	29000	28000	48000
Chlorine	µg/l		2							
Cyanide	µg/l	20	1		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Nitrate as NO3	µg/l	900	-		53000	49300	47600	33500	35200	34500
Nitrite as NO2	µg/l	40	-		<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Phenol	µg/l		7.7							
Pentachlorophenol	µg/l	0.04	0.4							
PCBs	µg/l		-							
Sodium	µg/l		-		11000	13000	13000	15000	16000	34000
Sulphate	µg/l	3000	-		25000	27000	22000	23000	21000	28000
pH	pH Units	1	-		7.4	7.3	7.3	7.4	7.3	7.7
Dichloromethane	µg/l		-							
1,2 Dichloroethane	µg/l		10							
Trichloroethene (PCE)	µg/l		10							
1,1,1 Trichloroethane	µg/l		-							
1,1,2 Trichloroethane	µg/l		-							
Trichloromethane (Chloroform)	µg/l		2.5							
1,2,3 Trichlorobenzene	µg/l	0.01	-							
1,2,4 Trichlorobenzene	µg/l		-							
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		0.4							
Tetrachloroethene	µg/l		10							
Tetrachloromethane	µg/l		12							
1,1,1,2 Tetrachloroethane	µg/l		140							
Vinyl Chloride (Chloroethene)	µg/l		-							
>C5 to C6 Aliphatic	µg/l	100	-							
>C6 to C8 Aliphatic	µg/l	100	-							
>C8 to C10 Aliphatic	µg/l	100	-							
>C10 to C12 Aliphatic	µg/l	10	-							
>C12 to C16 Aliphatic	µg/l	10	-							
>C16 to C21 Aliphatic	µg/l	10	-							
>C21 to C35 Aliphatic	µg/l	10	-							
>C35 to C44 Aliphatic	µg/l	10	-							
Total Aliphatic C5-35	µg/l	340	-							
>C5 to C7 Aromatic	µg/l	5	-							
>C7 to C8 Aromatic	µg/l	5	-							
>C8 to C10 Aromatic	µg/l	20	-							
>C10 to C12 Aromatic	µg/l	10	-							
>C12 to C16 Aromatic	µg/l	10	-							
>C16 to C21 Aromatic	µg/l	10	-							
>C21 to C35 Aromatic	µg/l	10	-							
>C35 to C44 Aromatic	µg/l	10	-							
Total Aromatic C5-C35	µg/l	70	-							
TPH Ali/Aro	µg/l	410	-		<100.0 (GRO >C6-10) , 20.0 (EPH >C10-40) , 120.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , <200.0 (EPH >C10-40) , <2200.0 (TPH >C6-40)	<200.0 (GRO >C6-10) , 20.0 (EPH >C10-40) , 220.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , 10.0 (EPH >C10-40) , 110.0 (TPH >C6-40)	<200.0 (GRO >C6-10) , 10.0 (EPH >C10-40) , <220.0 (TPH >C6-40)	<100.0 (GRO >C6-10) , <40.0 (EPH >C10-40) , <440.0 (TPH >C6-40)
Benzene	µg/l	1	10		<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	0.5	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/l	1	74		<1	<1	<1	<1	<1	<1
Xylene	µg/l		30							
M- & P-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1
O-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1
Total Xylene (M, P & O)	µg/l	2	-							
MTBE	µg/l	1	-		<1	<1	<1	<1	<1	<1
naphthalene	µg/l	0.01	2		0.02	<0.01	<0.01	<0.01	<0.01	<0.04
acenaphthylene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
acenaphthene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
fluorene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
phenanthrene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
anthracene	µg/l	0.01	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
fluoranthene	µg/l	0.01	0.0063		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
pyrene	µg/l	0.01	-		<0.01	<0.01	0.01	<0.01	<0.01	<0.04
benzo(a)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
chrysene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(b)fluoranthene	µg/l	0.01	0.017		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(k)fluoranthene	µg/l	0.01	0.017		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04

Groundwater Results highlighting Exceedances above Generic Assessment Criteria

				LOC ID	2F3502SA	2F3502SA	2F3502SA	2F3503SA	2F3503SA	2F3503SA
				DEPTH	12.00	13.50	6.79	11.00	12.50	7.50
			Assessment Criteria	LAB ID		2F3502SAW190723101031	2F3502SAW134814		2F3503SAW134747	2F3503SAW140723101153
Analyte	Units	LOD	Fresh Water	LAB RECEIVED DATE	20/01/2024	22/07/2023	14/09/2023	20/01/2024	14/09/2023	15/07/2023
benzo(a)pyrene	µg/l	0.01	0.00017		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(g,h,i)perylene	µg/l	0.01	0.0082		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
indeno(1,2,3-c,d)pyrene	µg/l	0.01	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	-							
Total PAH	µg/l	0.16	-		0.17	<0.16	0.16	<0.16	<0.16	<0.64
PFOS	µg/l	0.01	-							
PFOA	µg/l	0.01	-							

Appendix E: HazWasteOnline™ Report

Waste Classification Report

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

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

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

RKDHY-A55U0-I9HJG

Job name

Hampshire Water Transfer and Water Recycling Project (HWTWRP)[4]

Description/Comments

Waste classification of soils to be excavated for proposed pipeline.
Boreholes 2F3502SA and 2F3503SA located in agricultural land.
2F3504DS and 2F3505DS are within 10m of Albany Farm Historical Landfill Site.
All other locations are in or adjacent (within 50m) of a former infilled pit (chalk, sand, etc).

Project

Phase 2 GIR

Site

Section F

Classified by

Name:
Akansha Patel
Date:
08 Feb 2024 13:24 GMT
Telephone:
07722598325

Company:
Stantec UK Ltd
The Stills, 1st Floor
80 Turnmill Street
LONDON
EC1M5QU

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	09 Feb 2023

Next 3 year Refresher due by Feb 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

Between Knowle and Boarhunt Villages, Hampshire **Post Code** N/A

SIC for the process giving rise to the waste

42910 Construction of water projects

Description of industry/producer giving rise to the waste

Water Industry

Description of the specific process, sub-process and/or activity that created the waste

Excavation of trenches for pipeline installation.

Description of the waste

Topsoil is soft dark brown sandy gravelly CLAY with roots and rootlets and gravel of chert, chalk and rare brick; or dark brown slightly clayey gravelly SAND with occasional flint cobbles and frequent rootlets (2F3502SA 0.2m sample).
Head in 2F3500DS (2.6m sample), 2F3501DS (0.5m sample), 2F3503SA (0.5m sample), 2F3504DS (1.0m sample), 2F3512RC (0.5m sample).
Alluvium in 2F3500DS (1.0m sampe) and 2F3502SA (1.0m sample).
River Terrace deposits in 2F3513DS (0.3m sample), 2F3514DS (0.5m sample) and 2F3515DS (0.35m sample).
Chalk in 2F3500DS (3.6m sample), 2F3503SA (3.0m sample), 2F3504DS (2.5m and 5.6m samples), 2F3505DS (1.0m, 2.6m and 5.3m samples), 2F3513DS (1.0m sample), 2F3514DS (1.7m sample), 2F3515DS (1.0m and 2.7m samples).

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	2F3500DS	0.25	Non Hazardous		3
2	2F3500DS[2]	1.00	Non Hazardous		6
3	2F3500DS[3]	2.60	Non Hazardous		9
4	2F3500DS[4]	3.60	Non Hazardous		12
5	2F3501DS	0.1	Non Hazardous		15
6	2F3501DS[2]	0.5	Non Hazardous		18
7	2F3502SA	0.2	Non Hazardous		21
8	2F3502SA[2]	1	Non Hazardous		23
9	2F3504DS	0.15	Non Hazardous		25
10	2F3504DS[2]	1	Non Hazardous		30
11	2F3504DS[3]	2.5	Non Hazardous		35
12	2F3504DS[4]	5.6	Non Hazardous		40
13	2F3505DS	0.15	Non Hazardous		42
14	2F3505DS[2]	1	Non Hazardous		46
15	2F3505DS[3]	2.6	Non Hazardous		50
16	2F3505DS[4]	5.3	Non Hazardous		54
17	2F3512RC	0.1	Non Hazardous		56
18	2F3512RC[2]	0.5	Non Hazardous		59
19	2F3513DS	0.1	Non Hazardous		61
20	2F3513DS[2]	0.3	Non Hazardous		65
21	2F3513DS[3]	1	Non Hazardous		69
22	2F3514DS	0.1	Non Hazardous		73
23	2F3514DS[2]	0.5	Non Hazardous		77
24	2F3514DS[3]	1.7	Non Hazardous		82
25	2F3515DS	0.1	Non Hazardous		87
26	2F3515DS[2]	0.35	Non Hazardous		90
27	2F3515DS[3]	1	Non Hazardous		93
28	2F3515DS[4]	2.7	Non Hazardous		96

Related documents

#	Name	Description
1	GAC Tool Template v4	waste stream template used to create this Job

Report

Created by: Akansha Patel

Created date: 08 Feb 2024 13:24 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	99
Appendix B: Rationale for selection of metal species	101
Appendix C: Version	102

Classification of sample: 2F3500DS

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

Sample details

Sample name:
2F3500DS
Sample Depth:
0.25 m
Moisture content:
18%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2	mg/kg	1.32	10.827	mg/kg	0.00108 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21.9	mg/kg	1.462	32.008	mg/kg	0.0032 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	20.266	mg/kg	0.00203 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	30	mg/kg	1.56	46.794	mg/kg	0.003 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17.6	mg/kg	2.976	52.382	mg/kg	0.00524 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		86.8	mg/kg	2.774	240.796	mg/kg	0.0241 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7	mg/kg	3.22	2.254	mg/kg	0.000225 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		phenol				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
			205-912-4	206-44-0									
27		pyrene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			205-883-8	191-24-2									
36		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				123	mg/kg		123	mg/kg	0.0123 %		
				TPH									
										Total:	0.0619 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0123%)

Classification of sample: 2F3500DS[2]

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

Sample details

Sample name:
2F3500DS[2]
Sample Depth:
1.00 m
Moisture content:
18.8%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.2	mg/kg	1.462	20.754	mg/kg	0.00208 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.5	mg/kg	1.126	7.318	mg/kg	0.000732 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	6.3	mg/kg	1.56	9.827	mg/kg	0.00063 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.8	mg/kg	2.976	47.025	mg/kg	0.0047 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		31.6	mg/kg	2.774	87.663	mg/kg	0.00877 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		7.6	pH		7.6	pH	7.6 pH		
15		phenol 604-001-00-2	203-632-7	108-95-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
16		benzene 601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
17		toluene 601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
19		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]		<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**LOD**
20		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		fluorene	201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		phenanthrene	201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluoranthene	205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		pyrene	204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		chrysene 601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		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**
33		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		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**
35		benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		coronene	205-881-7	191-07-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
37		polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
38		TPH (C6 to C40) petroleum group		TPH		63.8	mg/kg		63.8	mg/kg	0.00638 %		
										Total:	0.0344 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00638%)

Classification of sample: 2F3500DS[3]

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

Sample details

Sample name:
2F3500DS[3]
Sample Depth:
2.60 m
Moisture content:
16.4%
(no 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: 16.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20.6 mg/kg	1.462	30.108 mg/kg	0.00301 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.5 mg/kg	1.126	9.57 mg/kg	0.000957 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	9 mg/kg	1.56	14.038 mg/kg	0.0009 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19.2 mg/kg	2.976	57.144 mg/kg	0.00571 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		45.1 mg/kg	2.774	125.114 mg/kg	0.0125 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
15		phenol				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		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									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.042	mg/kg		<0.042	mg/kg	<0.0000042 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				36.2	mg/kg		36.2	mg/kg	0.00362 %		
				TPH									
										Total:	0.0382 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00362%)

Classification of sample: 2F3500DS[4]

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

Sample details

Sample name:
2F3500DS[4]
Sample Depth:
3.60 m
Moisture content:
19.9%
(no 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: 19.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<1.2 mg/kg	1.462	<1.754 mg/kg	<0.000175 %		<LOD
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<1.6 mg/kg	1.126	<1.801 mg/kg	<0.00018 %		<LOD
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	0.9 mg/kg	1.56	1.404 mg/kg	0.00009 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5.2 mg/kg	2.976	15.477 mg/kg	0.00155 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14	●	pH				9.1	pH		9.1	pH	9.1 pH		
				PH									
15		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				29	mg/kg		29	mg/kg	0.0029 %		
				TPH									
										Total:	0.0201 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0029%)

Classification of sample: 2F3501DS

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

Sample details

Sample name:
2F3501DS
Sample Depth:
0.1 m
Moisture content:
16.6%
(no 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: 16.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.2	mg/kg	1.32	16.108	mg/kg	0.00161 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31.6	mg/kg	1.462	46.185	mg/kg	0.00462 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21.6	mg/kg	1.126	24.319	mg/kg	0.00243 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	28.7	mg/kg	1.56	44.767	mg/kg	0.00287 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27.8	mg/kg	2.976	82.74	mg/kg	0.00827 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		74.1	mg/kg	2.774	205.564	mg/kg	0.0206 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.2	mg/kg	3.22	3.864	mg/kg	0.000386 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.3 pH		8.3 pH	8.3 pH		
				PH							
15		phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
16		benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
17		toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
18		ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036 mg/kg		<0.036 mg/kg	<0.0000036 %		<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]							
20		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
21		acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8							
22		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9							
23		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7							
24		phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8							
25		anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7							
26		fluoranthene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
			205-912-4	206-44-0							
27		pyrene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
			204-927-3	129-00-0							
28		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
29		chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9							
30		benzo[b]fluoranthene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		601-034-00-4	205-911-9	205-99-2							
31		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
32		benzo[a]pyrene; benzo[def]chrysene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
		601-032-00-3	200-028-5	50-32-8							
33		indeno[123-cd]pyrene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
			205-893-2	193-39-5							
34		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
35		benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2							
36		coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1							
37		polychlorobiphenyls; PCB				<0.042 mg/kg		<0.042 mg/kg	<0.0000042 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
38		TPH (C6 to C40) petroleum group				63.1 mg/kg		63.1 mg/kg	0.00631 %		
				TPH							
								Total:	0.0576 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00631%)

Classification of sample: 2F3501DS[2]

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

Sample details

Sample name:
2F3501DS[2]
Sample Depth:
0.5 m
Moisture content:
14.9%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.8 mg/kg	1.32	16.9 mg/kg	0.00169 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31.2 mg/kg	1.462	45.601 mg/kg	0.00456 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.6 mg/kg	1.126	17.564 mg/kg	0.00176 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	25.2 mg/kg	1.56	39.307 mg/kg	0.00252 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26.5 mg/kg	2.976	78.871 mg/kg	0.00789 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		63 mg/kg	2.774	174.771 mg/kg	0.0175 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.4	pH		8.4	pH	8.4 pH		
15		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<**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]									
20		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5									
34		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									
35		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2									
36		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.041	mg/kg		<0.041	mg/kg	<0.0000041 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				68.9	mg/kg		68.9	mg/kg	0.00689 %		
				TPH									
										Total:	0.0536 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00689%)

Classification of sample: 2F3502SA

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

Sample details

Sample name:
2F3502SA
Sample Depth:
0.2 m
Moisture content:
14.5%
(no 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: 14.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.1 mg/kg	1.32	14.656 mg/kg	0.00147 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		32.9 mg/kg	1.462	48.085 mg/kg	0.00481 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.5 mg/kg	1.126	17.451 mg/kg	0.00175 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14.1 mg/kg	1.56	21.993 mg/kg	0.00141 %		
8	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
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		77.6 mg/kg	2.774	215.274 mg/kg	0.0215 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
11	pH			PH		8 pH		8 pH	8pH		
12	pentachlorophenol	604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
13	TPH (C6 to C40) petroleum group			TPH		23.4 mg/kg		23.4 mg/kg	0.00234 %		
14	pentachlorobenzene	602-074-00-5	210-172-0	608-93-5		<0.0011 mg/kg		<0.0011 mg/kg	<0.000000117 %		<LOD
15	aldrin (ISO)	602-048-00-3	206-215-8	309-00-2		<0.0023 mg/kg		<0.0023 mg/kg	<0.000000234 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
16		dieldrin (ISO)				<0.0058 mg/kg		<0.0058 mg/kg	<0.000000585 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1							
17		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000234 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9							
18		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000234 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7							
19		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0129 mg/kg		<0.0129 mg/kg	<0.00000129 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7							
								Total:	0.0337 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

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: 2F3502SA[2]

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

Sample details

Sample name:
2F3502SA[2]
Sample Depth:
1 m
Moisture content:
16.2%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.3	mg/kg	1.32	10.959	mg/kg	0.0011 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.2	mg/kg	1.462	33.908	mg/kg	0.00339 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.2	mg/kg	1.126	20.491	mg/kg	0.00205 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32.8	mg/kg	1.56	51.162	mg/kg	0.00328 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		66	mg/kg	2.774	183.094	mg/kg	0.0183 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.1	mg/kg	3.22	3.542	mg/kg	0.000354 %		
11	pH			PH		8	pH		8	pH	8pH		
12	TPH (C6 to C40) petroleum group			TPH		25.3	mg/kg		25.3	mg/kg	0.00253 %		
										Total:	0.0312 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00253%)

Classification of sample: 2F3504DS

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

Sample details

Sample name:
2F3504DS
Sample Depth:
0.15 m
Moisture content:
18.5%
(no 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: 18.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.7 mg/kg	1.32	11.487 mg/kg	0.00115 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19.6 mg/kg	1.462	28.646 mg/kg	0.00286 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.4 mg/kg	1.126	17.339 mg/kg	0.00173 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42.6 mg/kg	1.56	66.448 mg/kg	0.00426 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20.3 mg/kg	2.976	60.418 mg/kg	0.00604 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		71.2 mg/kg	2.774	197.519 mg/kg	0.0198 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.8 mg/kg	3.22	5.796 mg/kg	0.00058 %		
12	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
13	pH			PH		8.1 pH		8.1 pH	8.1 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				61.9	mg/kg		61.9	mg/kg	0.00619 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
43	●	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44	●	2,2-dichloropropane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			209-832-0	594-20-7									
45	●	bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
49		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
50		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
51		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
52		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
53	●	bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
54	●	trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
56		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
57	●	1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
58	●	dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
59		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
62	●	1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
63		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
64		tetrachloroethylene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
65		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000123 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
66	●	hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
68		2,6-dinitrotoluene				<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<LOD
		609-049-00-8	210-106-0	606-20-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
69		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							
70		biphenyl; diphenyl				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4							
71		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		607-317-00-9	204-211-0	117-81-7							
72		BBP; benzyl butyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		607-430-00-3	201-622-7	85-68-7							
73		diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2							
74		dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2							
75		di-n-octyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
			204-214-7	117-84-0							
76		aldrin (ISO)				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000245 %		<LOD
		602-048-00-3	206-215-8	309-00-2							
77		dieldrin (ISO)				<0.0061 mg/kg		<0.0061 mg/kg	<0.000000613 %		<LOD
		602-049-00-9	200-484-5	60-57-1							
78		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000245 %		<LOD
		613-068-00-7	217-617-8	1912-24-9							
79		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000245 %		<LOD
		015-019-00-X	200-547-7	62-73-7							
80		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0353 mg/kg		<0.0353 mg/kg	<0.00000353 %		<LOD
		602-052-00-5	204-079-4	115-29-7							
81		1,2-dichlorobenzene; o-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
82		1,4-dichlorobenzene; p-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
83		1,2,4-trichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1							
84		hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
85		hexachloroethane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1							
								Total:	0.0434 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00619%)

Classification of sample: 2F3504DS[2]

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

Sample details

Sample name:
2F3504DS[2]
Sample Depth:
1 m
Moisture content:
19.8%
(no 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: 19.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.6	mg/kg	1.32	0.792	mg/kg	0.0000792 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.4	mg/kg	1.462	3.508	mg/kg	0.000351 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		3.1	mg/kg	1.126	3.49	mg/kg	0.000349 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2.8	mg/kg	1.56	4.367	mg/kg	0.00028 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		3.9	mg/kg	2.976	11.607	mg/kg	0.00116 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		19.5	mg/kg	2.774	54.096	mg/kg	0.00541 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.2	mg/kg	3.22	3.864	mg/kg	0.000386 %		
12	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**
13	pH			PH		8.2	pH		8.2	pH	8.2 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				27.4	mg/kg		27.4	mg/kg	0.00274 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3							
44		2,2-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7							
45		bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5							
46		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3							
47		1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6							
48		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
49		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6							
50		1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2							
51		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5							
52		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3							
53		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4							
54		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6							
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56		1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5							
57		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9							
58		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1							
59		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4							
60		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7							
61		1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5							
62		1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6							
63		trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6							
64		tetrachloroethylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4							
65		pentachlorobenzene				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000125 %		<LOD
		602-074-00-5	210-172-0	608-93-5							
66		hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3							
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
68		2,6-dinitrotoluene				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
		609-049-00-8	210-106-0	606-20-2							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
70		biphenyl; diphenyl											
		601-042-00-8	202-163-5	92-52-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
71		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP											
		607-317-00-9	204-211-0	117-81-7		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
72		BBP; benzyl butyl phthalate											
		607-430-00-3	201-622-7	85-68-7		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
73		diethyl phthalate											
			201-550-6	84-66-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
74		dibutyl phthalate; DBP											
		607-318-00-4	201-557-4	84-74-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
75		di-n-octyl phthalate											
			204-214-7	117-84-0		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
76		aldrin (ISO)											
		602-048-00-3	206-215-8	309-00-2		<0.0024	mg/kg		<0.0024	mg/kg	<0.000000249 %		<LOD
77		dieldrin (ISO)											
		602-049-00-9	200-484-5	60-57-1		<0.0062	mg/kg		<0.0062	mg/kg	<0.000000623 %		<LOD
78		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine											
		613-068-00-7	217-617-8	1912-24-9		<0.0024	mg/kg		<0.0024	mg/kg	<0.000000249 %		<LOD
79		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate											
		015-019-00-X	200-547-7	62-73-7		<0.0024	mg/kg		<0.0024	mg/kg	<0.000000249 %		<LOD
80		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite											
		602-052-00-5	204-079-4	115-29-7		<0.0137	mg/kg		<0.0137	mg/kg	<0.00000137 %		<LOD
81		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		1,4-dichlorobenzene; p-dichlorobenzene											
		602-035-00-2	203-400-5	106-46-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
83		1,2,4-trichlorobenzene											
		602-087-00-6	204-428-0	120-82-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
84		hexachlorobenzene											
		602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
85		hexachloroethane											
			200-666-4	67-72-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0116 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00274%)

Classification of sample: 2F3504DS[3]

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

Sample details

Sample name:
2F3504DS[3]
Sample Depth:
2.5 m
Moisture content:
19.1%
(no 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: 19.1% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.4 mg/kg	1.32	0.528 mg/kg	0.0000528 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.2 mg/kg	1.462	1.754 mg/kg	0.000175 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		1.8 mg/kg	1.126	2.027 mg/kg	0.000203 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2.1 mg/kg	1.56	3.276 mg/kg	0.00021 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		3.1 mg/kg	2.976	9.226 mg/kg	0.000923 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	pH			PH		9 pH		9 pH	9pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				55.7	mg/kg		55.7	mg/kg	0.00557 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		2,2-dichloropropane				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7									
45		bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
49		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
50		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
51		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
52		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
53		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
54		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
56		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
57		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
58		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
59		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
62		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
63		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
64		tetrachloroethylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
65		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000124 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
66		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
68		2,6-dinitrotoluene				<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<LOD
		609-049-00-8	210-106-0	606-20-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
69		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							
70		biphenyl; diphenyl				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4							
71		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		607-317-00-9	204-211-0	117-81-7							
72		BBP; benzyl butyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		607-430-00-3	201-622-7	85-68-7							
73		diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2							
74		dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2							
75		di-n-octyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
			204-214-7	117-84-0							
76		aldrin (ISO)				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000247 %		<LOD
		602-048-00-3	206-215-8	309-00-2							
77		dieldrin (ISO)				<0.0061 mg/kg		<0.0061 mg/kg	<0.000000618 %		<LOD
		602-049-00-9	200-484-5	60-57-1							
78		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000247 %		<LOD
		613-068-00-7	217-617-8	1912-24-9							
79		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000247 %		<LOD
		015-019-00-X	200-547-7	62-73-7							
80		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0136 mg/kg		<0.0136 mg/kg	<0.00000136 %		<LOD
		602-052-00-5	204-079-4	115-29-7							
81		1,2-dichlorobenzene; o-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
82		1,4-dichlorobenzene; p-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
83		1,2,4-trichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1							
84		hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
85		hexachloroethane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1							
								Total:	0.0125 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00557%)

Classification of sample: 2F3504DS[4]

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

Sample details

Sample name:
2F3504DS[4]
Sample Depth:
5.6 m
Moisture content:
18.2%
(no 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: 18.2% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.8	mg/kg	1.32	1.056	mg/kg	0.000106 %		
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.7	mg/kg	1.462	14.177	mg/kg	0.00142 %		
4		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.1	mg/kg	1.126	5.742	mg/kg	0.000574 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.5	mg/kg	1.56	2.34	mg/kg	0.00015 %		
8		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**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16	mg/kg	2.774	<44.386	mg/kg	<0.00444 %		<**LOD**
10		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11		pH			PH		9.5	pH		9.5	pH	9.5 pH		
12		TPH (C6 to C40) petroleum group			TPH		116	mg/kg		116	mg/kg	0.0116 %		
											Total:	0.0187 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: 2F3505DS

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

Sample details

Sample name:
2F3505DS
Sample Depth:
0.15 m
Moisture content:
18.4%
(no 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: 18.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.3	mg/kg	1.462	26.746	mg/kg	0.00267 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.7	mg/kg	1.126	15.425	mg/kg	0.00154 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34.2	mg/kg	1.56	53.346	mg/kg	0.00342 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19.1	mg/kg	2.976	56.847	mg/kg	0.00568 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		64	mg/kg	2.774	177.545	mg/kg	0.0178 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.6	mg/kg	3.22	5.152	mg/kg	0.000515 %		
12	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**
13	pH			PH		7.9	pH		7.9	pH	7.9 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				110	mg/kg		110	mg/kg	0.011 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3							
44		2,2-dichloropropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
			209-832-0	594-20-7							
45		bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5							
46		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3							
47		1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6							
48		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
49		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6							
50		1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2							
51		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5							
52		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3							
53		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4							
54		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6							
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56		1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5							
57		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9							
58		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1							
59		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4							
60		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7							
61		1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5							
62		1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6							
63		trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6							
64		tetrachloroethylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4							
65		pentachlorobenzene				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000123 %		<LOD
		602-074-00-5	210-172-0	608-93-5							
66		hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3							
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
68		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000245 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0061	mg/kg		<0.0061	mg/kg	<0.000000613 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000245 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000245 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0353	mg/kg		<0.0353	mg/kg	<0.00000353 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			200-666-4	67-72-1									
										Total:	0.0444 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

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: 2F3505DS[2]

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

Sample details

Sample name:
2F3505DS[2]
Sample Depth:
1 m
Moisture content:
18.6%
(no 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: 18.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.3	mg/kg	1.32	9.638	mg/kg	0.000964 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22.5	mg/kg	1.462	32.885	mg/kg	0.00329 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10.2	mg/kg	1.126	11.484	mg/kg	0.00115 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10.8	mg/kg	1.56	16.846	mg/kg	0.00108 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24.4	mg/kg	2.976	72.621	mg/kg	0.00726 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		63.6	mg/kg	2.774	176.436	mg/kg	0.0176 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.5	mg/kg	3.22	4.83	mg/kg	0.000483 %		
12	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
13	pH			PH		8.5	pH		8.5	pH	8.5 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				94.2	mg/kg		94.2	mg/kg	0.00942 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3							
44		2,2-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<**LOD**
			209-832-0	594-20-7							
45		bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			200-826-3	74-97-5							
46		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-006-00-4	200-663-8	67-66-3							
47		1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6							
48		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5							
49		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-031-00-0	209-253-3	563-58-6							
50		1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-012-00-7	203-458-1	107-06-2							
51		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-020-00-0	201-152-2	78-87-5							
52		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-003-00-8	200-824-2	74-95-3							
53		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			200-856-7	75-27-4							
54		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			431-460-4	10061-02-6							
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56		1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5							
57		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			205-531-3	142-28-9							
58		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			204-704-0	124-48-1							
59		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-010-00-6	203-444-5	106-93-4							
60		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-033-00-1	203-628-5	108-90-7							
61		1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-015-00-3	201-197-8	79-34-5							
62		1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
			211-135-1	630-20-6							
63		trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6							
64		tetrachloroethylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4							
65		pentachlorobenzene				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000123 %		<**LOD**
		602-074-00-5	210-172-0	608-93-5							
66		hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-765-5	87-68-3							
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
68		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			202-079-9	91-58-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0061	mg/kg		<0.0061	mg/kg	<0.000000614 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0353	mg/kg		<0.0353	mg/kg	<0.00000353 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			200-666-4	67-72-1									
										Total:	0.0421 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00942%)

Classification of sample: 2F3505DS[3]

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

Sample details

Sample name:
2F3505DS[3]
Sample Depth:
2.6 m
Moisture content:
24%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18.1 mg/kg	1.32	23.898 mg/kg	0.00239 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		43.7 mg/kg	1.462	63.87 mg/kg	0.00639 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.2 mg/kg	1.126	21.617 mg/kg	0.00216 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34.8 mg/kg	1.56	54.282 mg/kg	0.00348 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31.4 mg/kg	2.976	93.455 mg/kg	0.00935 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		103.3 mg/kg	2.774	286.569 mg/kg	0.0287 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	pH			PH		9.1 pH		9.1 pH	9.1 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.039	mg/kg		<0.039	mg/kg	<0.0000039 %		<**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]									
20		naphthalene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21	●	acenaphthylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-917-1	208-96-8									
22	●	acenaphthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-469-6	83-32-9									
23	●	fluorene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-695-5	86-73-7									
24	●	phenanthrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-581-5	85-01-8									
25	●	anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			204-371-1	120-12-7									
26	●	fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-912-4	206-44-0									
27	●	pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33	●	indeno[123-cd]pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-893-2	193-39-5									
34		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									
35	●	benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
36	●	coronene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-881-7	191-07-1									
37	●	polychlorobiphenyls; PCB				<0.046	mg/kg		<0.046	mg/kg	<0.0000046 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38	●	TPH (C6 to C40) petroleum group				62.7	mg/kg		62.7	mg/kg	0.00627 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3							
44		2,2-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7							
45		bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5							
46		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3							
47		1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6							
48		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
49		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6							
50		1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2							
51		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5							
52		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3							
53		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4							
54		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6							
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56		1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5							
57		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9							
58		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1							
59		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4							
60		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7							
61		1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5							
62		1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6							
63		trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6							
64		tetrachloroethylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4							
65		pentachlorobenzene				<0.0013 mg/kg		<0.0013 mg/kg	<0.000000132 %		<LOD
		602-074-00-5	210-172-0	608-93-5							
66		hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3							
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
68		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0026	mg/kg		<0.0026	mg/kg	<0.000000263 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0065	mg/kg		<0.0065	mg/kg	<0.000000658 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0026	mg/kg		<0.0026	mg/kg	<0.000000263 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0026	mg/kg		<0.0026	mg/kg	<0.000000263 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0145	mg/kg		<0.0145	mg/kg	<0.00000145 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			200-666-4	67-72-1									
										Total:	0.0596 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00627%)

Classification of sample: 2F3505DS[4]

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

Sample details

Sample name:
2F3505DS[4]
Sample Depth:
5.3 m
Moisture content:
21.9%
(no 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: 21.9% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1	mg/kg	1.32	12.015	mg/kg	0.0012 %		
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24.4	mg/kg	1.462	35.662	mg/kg	0.00357 %		
4		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.9	mg/kg	1.126	23.531	mg/kg	0.00235 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19	mg/kg	1.56	29.636	mg/kg	0.0019 %		
8		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**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		73.8	mg/kg	2.774	204.732	mg/kg	0.0205 %		
10		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11		pH			PH		9.1	pH		9.1	pH	9.1 pH		
12		TPH (C6 to C40) petroleum group			TPH		68.3	mg/kg		68.3	mg/kg	0.00683 %		
											Total:	0.0367 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00683%)

Classification of sample: 2F3512RC

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

Sample details

Sample name:
2F3512RC
Sample Depth:
0.1 m
Moisture content:
19.5%
(no 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: 19.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.9 mg/kg	1.32	14.392 mg/kg	0.00144 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25.6 mg/kg	1.462	37.416 mg/kg	0.00374 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.2 mg/kg	1.923	0.385 mg/kg	0.0000385 %		
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.2 mg/kg	1.126	20.491 mg/kg	0.00205 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	37.4 mg/kg	1.56	58.337 mg/kg	0.00374 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18.1 mg/kg	2.976	53.87 mg/kg	0.00539 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		52.9 mg/kg	2.774	146.752 mg/kg	0.0147 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**
12	pH			PH		7.9 pH		7.9 pH	7.9 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		0.42 mg/kg		0.42 mg/kg	0.000042 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
15		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
21	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
22	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
23	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
24	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
25	●	fluoranthene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-912-4	206-44-0									
26	●	pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			204-927-3	129-00-0									
27		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-032-00-3	200-028-5	50-32-8									
32	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
33		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									
34	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
35	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
36	●	polychlorobiphenyls; PCB				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
37	●	TPH (C6 to C40) petroleum group				37.6	mg/kg		37.6	mg/kg	0.00376 %		
				TPH									
38		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000124 %		<**LOD**
		602-074-00-5	210-172-0	608-93-5									
39		aldrin (ISO)				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000248 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
40		dieldrin (ISO)				<0.0062	mg/kg		<0.0062	mg/kg	<0.000000621 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
41		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000248 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000248 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7							
43		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0136 mg/kg		<0.0136 mg/kg	<0.00000136 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7							
								Total:	0.0453 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because No liquid phase present, Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00003%)

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00376%)

Classification of sample: 2F3512RC[2]

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

Sample details

Sample name:
2F3512RC[2]
Sample Depth:
0.5 m
Moisture content:
16.8%
(no 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: 16.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1	mg/kg	1.32	12.015	mg/kg	0.0012 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28.3	mg/kg	1.462	41.362	mg/kg	0.00414 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.2	mg/kg	1.923	0.385	mg/kg	0.0000385 %		
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		**<LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.2	mg/kg	1.126	13.736	mg/kg	0.00137 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19.9	mg/kg	1.56	31.04	mg/kg	0.00199 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		53.3	mg/kg	2.774	147.862	mg/kg	0.0148 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8	mg/kg	3.22	2.576	mg/kg	0.000258 %		
11	pH			PH		8	pH		8	pH	8pH		
12	TPH (C6 to C40) petroleum group			TPH		27.8	mg/kg		27.8	mg/kg	0.00278 %		
										Total:	0.0268 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because No liquid phase present, Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00003%)

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00278%)

Classification of sample: 2F3513DS

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

Sample details

Sample name:
2F3513DS
Sample Depth:
0.1 m
Moisture content:
21.9%
(no 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: 21.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.4 mg/kg	1.32	12.411 mg/kg	0.00124 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.3 mg/kg	1.462	26.746 mg/kg	0.00267 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	78.3 mg/kg	1.56	122.134 mg/kg	0.00783 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16.5 mg/kg	2.976	49.108 mg/kg	0.00491 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		138 mg/kg	2.774	382.832 mg/kg	0.0383 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
12	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
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number							
15		pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5							
16		benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
17		toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
18		ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.039 mg/kg		<0.039 mg/kg	<0.0000039 %		<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]							
20		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
21		acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8							
22		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9							
23		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7							
24		phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8							
25		anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7							
26		fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
			205-912-4	206-44-0							
27		pyrene				0.18 mg/kg		0.18 mg/kg	0.000018 %		
			204-927-3	129-00-0							
28		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
29		chrysene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
		601-048-00-0	205-923-4	218-01-9							
30		benzo[b]fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2							
31		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
32		benzo[a]pyrene; benzo[def]chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
		601-032-00-3	200-028-5	50-32-8							
33		indeno[123-cd]pyrene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
			205-893-2	193-39-5							
34		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
35		benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2							
36		coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1							
37		polychlorobiphenyls; PCB				<0.045 mg/kg		<0.045 mg/kg	<0.0000045 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
38		TPH (C6 to C40) petroleum group				82.5 mg/kg		82.5 mg/kg	0.00825 %		
				TPH							
39		vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4							
40		1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4							
41		dichloromethane; methylene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-004-00-3	200-838-9	75-09-2							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		2,2-dichloropropane				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7									
45		bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
49		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
50		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
51		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
52		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
53		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
54		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
56		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
57		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
58		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
59		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
62		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
63		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
64		tetrachloroethylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
65		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000128 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
66		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
68		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0025	mg/kg		<0.0025	mg/kg	<0.000000256 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0064	mg/kg		<0.0064	mg/kg	<0.00000064 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0025	mg/kg		<0.0025	mg/kg	<0.000000256 %		<LOD
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0025	mg/kg		<0.0025	mg/kg	<0.000000256 %		<LOD
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0141	mg/kg		<0.0141	mg/kg	<0.00000141 %		<LOD
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1									
										Total:	0.0663 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00825%)

Classification of sample: 2F3513DS[2]

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

Sample details

Sample name:
2F3513DS[2]
Sample Depth:
0.3 m
Moisture content:
20.9%
(no 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: 20.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.1	mg/kg	1.32	14.656	mg/kg	0.00147 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29.6	mg/kg	1.462	43.262	mg/kg	0.00433 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39	mg/kg	1.126	43.91	mg/kg	0.00439 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	186.1	mg/kg	1.56	290.282	mg/kg	0.0186 %		
8	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 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	50.597	mg/kg	0.00506 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		173.6	mg/kg	2.774	481.592	mg/kg	0.0482 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8	mg/kg	3.22	2.576	mg/kg	0.000258 %		
12	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**
13	pH			PH		8	pH		8	pH	8pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				50.8	mg/kg		50.8	mg/kg	0.00508 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3							
44		2,2-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7							
45		bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5							
46		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3							
47		1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6							
48		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
49		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6							
50		1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2							
51		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5							
52		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3							
53		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4							
54		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6							
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56		1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5							
57		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9							
58		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1							
59		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4							
60		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7							
61		1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5							
62		1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6							
63		trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6							
64		tetrachloroethylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4							
65		pentachlorobenzene				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000126 %		<LOD
		602-074-00-5	210-172-0	608-93-5							
66		hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3							
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
68		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
69		biphenyl; diphenyl				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4							
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		607-317-00-9	204-211-0	117-81-7							
71		BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7							
72		diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2							
73		dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2							
74		di-n-octyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
			204-214-7	117-84-0							
75		aldrin (ISO)				<0.0025 mg/kg		<0.0025 mg/kg	<0.000000253 %		<LOD
		602-048-00-3	206-215-8	309-00-2							
76		dieldrin (ISO)				<0.0063 mg/kg		<0.0063 mg/kg	<0.000000632 %		<LOD
		602-049-00-9	200-484-5	60-57-1							
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0025 mg/kg		<0.0025 mg/kg	<0.000000253 %		<LOD
		613-068-00-7	217-617-8	1912-24-9							
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0025 mg/kg		<0.0025 mg/kg	<0.000000253 %		<LOD
		015-019-00-X	200-547-7	62-73-7							
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0139 mg/kg		<0.0139 mg/kg	<0.00000139 %		<LOD
		602-052-00-5	204-079-4	115-29-7							
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
82		1,2,4-trichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1							
83		hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
84		hexachloroethane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1							
								Total:	0.0881 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00508%)

Classification of sample: 2F3513DS[3]

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

Sample details

Sample name:
2F3513DS[3]
Sample Depth:
1 m
Moisture content:
18.8%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.5	mg/kg	1.462	34.347	mg/kg	0.00343 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.1	mg/kg	1.126	22.63	mg/kg	0.00226 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	25	mg/kg	1.56	38.995	mg/kg	0.0025 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25.4	mg/kg	2.976	75.597	mg/kg	0.00756 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		72	mg/kg	2.774	199.739	mg/kg	0.02 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	pH			PH		8.6	pH		8.6	pH	8.6 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		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									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				0.043	mg/kg		0.043	mg/kg	0.0000043 %		
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				29.3	mg/kg		29.3	mg/kg	0.00293 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		2,2-dichloropropane				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7									
45		bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
49		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
50		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
51		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
52		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
53		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
54		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
56		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
57		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
58		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
59		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
62		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
63		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
64		tetrachloroethylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
65		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000123 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
66		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
68		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0061	mg/kg		<0.0061	mg/kg	<0.000000616 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<LOD
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000246 %		<LOD
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0353	mg/kg		<0.0353	mg/kg	<0.00000353 %		<LOD
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1									
										Total:	0.0407 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00293%)

Classification of sample: 2F3514DS

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

Sample details

Sample name:
2F3514DS
Sample Depth:
0.1 m
Moisture content:
31.6%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4 mg/kg	1.32	9.77 mg/kg	0.000977 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21.4 mg/kg	1.462	31.277 mg/kg	0.00313 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.4 mg/kg	1.126	19.59 mg/kg	0.00196 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	30 mg/kg	1.56	46.794 mg/kg	0.003 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.5 mg/kg	2.976	46.132 mg/kg	0.00461 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		71.8 mg/kg	2.774	199.184 mg/kg	0.0199 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
12	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**
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
15		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
16		benzene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<**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]									
20		naphthalene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			205-883-8	191-24-2									
36		coronene				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.051	mg/kg		<0.051	mg/kg	<0.0000051 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				57.9	mg/kg		57.9	mg/kg	0.00579 %		
				TPH									
39		vinyl chloride; chloroethylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
40		1,1-dichloroethylene; vinylidene chloride				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
41		dichloromethane; methylene chloride				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
42		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		2,2-dichloropropane				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7									
45		bromochloromethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			200-826-3	74-97-5									
46		chloroform; trichloromethane				0.002	mg/kg		0.002	mg/kg	0.0000002 %		
		602-006-00-4	200-663-8	67-66-3									
47		1,1,1-trichloroethane; methyl chloroform				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
48		carbon tetrachloride; tetrachloromethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
49		1,1-dichloropropene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
50		1,2-dichloroethane; ethylene dichloride				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
51		1,2-dichloropropane; propylene dichloride				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
52		dibromomethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
53		bromodichloromethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			200-856-7	75-27-4									
54		trans-1,3-dichloropropene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			431-460-4	10061-02-6									
55		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
56		1,1,2-trichloroethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
57		1,3-dichloropropane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			205-531-3	142-28-9									
58		dibromochloromethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			204-704-0	124-48-1									
59		1,2-dibromoethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
60		chlorobenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
61		1,1,2,2-tetrachloroethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
62		1,1,1,2-tetrachloroethane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			211-135-1	630-20-6									
63		trichloroethylene; trichloroethene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
64		tetrachloroethylene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
65		pentachlorobenzene				<0.0014	mg/kg		<0.0014	mg/kg	<0.000000146 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
66		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									
67		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
68		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4									
70		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
71		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
72		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
73		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
74		di-n-octyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			204-214-7	117-84-0									
75		aldrin (ISO)				<0.0029	mg/kg		<0.0029	mg/kg	<0.000000292 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
76		dieldrin (ISO)				<0.0073	mg/kg		<0.0073	mg/kg	<0.000000731 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
77		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0029	mg/kg		<0.0029	mg/kg	<0.000000292 %		<LOD
		613-068-00-7	217-617-8	1912-24-9									
78		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0029	mg/kg		<0.0029	mg/kg	<0.000000292 %		<LOD
		015-019-00-X	200-547-7	62-73-7									
79		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0161	mg/kg		<0.0161	mg/kg	<0.00000161 %		<LOD
		602-052-00-5	204-079-4	115-29-7									
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
81		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
82		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
83		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
84		hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1									
										Total:	0.0404 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00579%)

Classification of sample: 2F3514DS[2]

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

Sample details

Sample name:
2F3514DS[2]
Sample Depth:
0.5 m
Moisture content:
17.8%
(no 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: 17.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16.1	mg/kg	1.32	21.257	mg/kg	0.00213 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36.3	mg/kg	1.462	53.054	mg/kg	0.00531 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.8	mg/kg	1.126	14.411	mg/kg	0.00144 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22.2	mg/kg	1.56	34.628	mg/kg	0.00222 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33.1	mg/kg	2.976	98.514	mg/kg	0.00985 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		86.3	mg/kg	2.774	239.409	mg/kg	0.0239 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %		
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
17		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<**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]									
21		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
26		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			205-912-4	206-44-0									
28		pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
38		polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
39		TPH (C6 to C40) petroleum group				24.3	mg/kg		24.3	mg/kg	0.00243 %		
				TPH									
40		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
42		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-004-00-3	200-838-9	75-09-2									
43		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
44		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
45		2,2-dichloropropane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			209-832-0	594-20-7									
46		bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
47		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
48		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
49		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
50		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
51		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
52		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
53		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
54		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
55		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
56		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
57		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
58		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
59		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
60		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
61		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
62		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
63		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
64		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		tetrachloroethylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
66		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000122 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
67		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
68		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
69	●	2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
70		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-042-00-8	202-163-5	92-52-4									
71		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
72		BBP; benzyl butyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
73	●	diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
74		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
75	●	di-n-octyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			204-214-7	117-84-0									
76		aldrin (ISO)				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000243 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
77		dieldrin (ISO)				<0.006	mg/kg		<0.006	mg/kg	<0.000000608 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
78		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000243 %		<LOD
		613-068-00-7	217-617-8	1912-24-9									
79		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0024	mg/kg		<0.0024	mg/kg	<0.000000243 %		<LOD
		015-019-00-X	200-547-7	62-73-7									
80		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0134	mg/kg		<0.0134	mg/kg	<0.00000134 %		<LOD
		602-052-00-5	204-079-4	115-29-7									
81		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
82		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
83		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
84		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
85	●	hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			200-666-4	67-72-1									
										Total:	0.0583 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00243%)

Classification of sample: 2F3514DS[3]

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

Sample details

Sample name:
2F3514DS[3]
Sample Depth:
1.7 m
Moisture content:
19.9%
(no 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: 19.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<1.2 mg/kg	1.462	<1.754 mg/kg	<0.000175 %		<LOD
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		3.3 mg/kg	1.126	3.715 mg/kg	0.000372 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.1 mg/kg	1.56	1.716 mg/kg	0.00011 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		4.1 mg/kg	2.976	12.203 mg/kg	0.00122 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		16 mg/kg	2.774	44.386 mg/kg	0.00444 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.7	pH		8.7	pH	8.7 pH		
15		phenol											
		604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16		pentachlorophenol											
		604-002-00-8	201-778-6	87-86-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
18		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
19		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
20		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]		<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<LOD
21		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27		fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		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
34		indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
37		coronene											
			205-881-7	191-07-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38		polychlorobiphenyls; PCB											
		602-039-00-4	215-648-1	1336-36-3		<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<LOD
39		TPH (C6 to C40) petroleum group		TPH		25	mg/kg		25	mg/kg	0.0025 %		
40		vinyl chloride; chloroethylene											
		602-023-00-7	200-831-0	75-01-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
42		dichloromethane; methylene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-004-00-3	200-838-9	75-09-2									
43		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
44		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
45		2,2-dichloropropane				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			209-832-0	594-20-7									
46		bromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-826-3	74-97-5									
47		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
48		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
49		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
50		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
51		1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
52		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
53		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
54		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
55		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
56		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
57		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
58		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
59		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
60		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
61		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
62		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
63		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
64		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		tetrachloroethylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
66		pentachlorobenzene				<0.0012	mg/kg		<0.0012	mg/kg	<0.000000125 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
67		hexachlorobutadiene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-765-5	87-68-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
68		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
69	●	2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			202-079-9	91-58-7									
70		biphenyl; diphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-042-00-8	202-163-5	92-52-4									
71		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		607-317-00-9	204-211-0	117-81-7									
72		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
73	●	diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
74		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
75	●	di-n-octyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			204-214-7	117-84-0									
76		aldrin (ISO)				<0.0025	mg/kg		<0.0025	mg/kg	<0.00000025 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
77		dieldrin (ISO)				<0.0062	mg/kg		<0.0062	mg/kg	<0.000000624 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
78		atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0025	mg/kg		<0.0025	mg/kg	<0.00000025 %		<**LOD**
		613-068-00-7	217-617-8	1912-24-9									
79		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0025	mg/kg		<0.0025	mg/kg	<0.00000025 %		<**LOD**
		015-019-00-X	200-547-7	62-73-7									
80		endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0137	mg/kg		<0.0137	mg/kg	<0.00000137 %		<**LOD**
		602-052-00-5	204-079-4	115-29-7									
81		1,2-dichlorobenzene; o-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
82		1,4-dichlorobenzene; p-dichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
83		1,2,4-trichlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
84		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
85	●	hexachloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			200-666-4	67-72-1									
										Total:	0.0198 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0025%)

Classification of sample: 2F3515DS

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

Sample details

Sample name:
2F3515DS
Sample Depth:
0.1 m
Moisture content:
18%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.4 mg/kg	1.32	12.411 mg/kg	0.00124 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.5 mg/kg	1.462	27.039 mg/kg	0.0027 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.4 mg/kg	1.126	13.961 mg/kg	0.0014 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19.5 mg/kg	1.56	30.416 mg/kg	0.00195 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.976	32.739 mg/kg	0.00327 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42.8 mg/kg	2.774	118.733 mg/kg	0.0119 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		phenol				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<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]									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
			205-912-4	206-44-0									
27		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-883-8	191-24-2									
36		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				61.7	mg/kg		61.7	mg/kg	0.00617 %		
				TPH									
										Total:	0.0394 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00617%)

Classification of sample: 2F3515DS[2]

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

Sample details

Sample name:
2F3515DS[2]
Sample Depth:
0.35 m
Moisture content:
14.5%
(no 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: 14.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		34 mg/kg	1.462	49.693 mg/kg	0.00497 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.6 mg/kg	1.126	16.438 mg/kg	0.00164 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.9 mg/kg	1.56	24.801 mg/kg	0.00159 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23.6 mg/kg	2.976	70.24 mg/kg	0.00702 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		51.4 mg/kg	2.774	142.591 mg/kg	0.0143 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.2	pH		8.2	pH	8.2 pH		
15		phenol				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<**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]									
20		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		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									
33		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5									
34		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									
35		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2									
36		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									
37		polychlorobiphenyls; PCB				<0.041	mg/kg		<0.041	mg/kg	<0.0000041 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		TPH (C6 to C40) petroleum group				107	mg/kg		107	mg/kg	0.0107 %		
				TPH									
										Total:	0.0526 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0107%)

Classification of sample: 2F3515DS[3]

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

Sample details

Sample name:
2F3515DS[3]
Sample Depth:
1 m
Moisture content:
19.7%
(no 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: 19.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.8	mg/kg	1.32	14.26	mg/kg	0.00143 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.4	mg/kg	1.142	1.599	mg/kg	0.00016 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36.7	mg/kg	1.462	53.639	mg/kg	0.00536 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.9	mg/kg	1.126	21.279	mg/kg	0.00213 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20.4	mg/kg	1.56	31.82	mg/kg	0.00204 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35	mg/kg	2.976	104.169	mg/kg	0.0104 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		92.6	mg/kg	2.774	256.886	mg/kg	0.0257 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7	mg/kg	3.22	2.254	mg/kg	0.000225 %		
12	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**
13	pH			PH		8.2	pH		8.2	pH	8.2 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
21		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
22		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
23		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
24		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
25		fluoranthene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			205-912-4	206-44-0									
26		pyrene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			204-927-3	129-00-0									
27		benzo[a]anthracene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			205-893-2	193-39-5									
33		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									
34		benzo[ghi]perylene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-883-8	191-24-2									
35		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
36		polychlorobiphenyls; PCB				<0.044	mg/kg		<0.044	mg/kg	<0.0000044 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
37		TPH (C6 to C40) petroleum group				115	mg/kg		115	mg/kg	0.0115 %		
				TPH									
										Total:	0.0595 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0115%)

Classification of sample: 2F3515DS[4]

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

Sample details

Sample name:
2F3515DS[4]
Sample Depth:
2.7 m
Moisture content:
19%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.4	mg/kg	1.32	0.528	mg/kg	0.0000528 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.7	mg/kg	1.462	3.946	mg/kg	0.000395 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.3	mg/kg	1.126	5.967	mg/kg	0.000597 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.8	mg/kg	1.56	2.808	mg/kg	0.00018 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		4.9	mg/kg	2.976	14.584	mg/kg	0.00146 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		16.5	mg/kg	2.774	45.773	mg/kg	0.00458 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	pH			PH		9.3	pH		9.3	pH	9.3 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17	●	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037	mg/kg		<0.037	mg/kg	<0.0000037 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
20	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
21	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
22	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
23	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
24	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
25	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
26	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
27		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
31		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									
32	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
33		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									
34	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
35	●	polychlorobiphenyls; PCB				<0.043	mg/kg		<0.043	mg/kg	<0.0000043 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
36	●	TPH (C6 to C40) petroleum group				24.7	mg/kg		24.7	mg/kg	0.00247 %		
				TPH									
										Total:	0.0104 %		

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 Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00247%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

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

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

- **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

- **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

- **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

- **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

- **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

trans-1,3-dichloropropene (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

1,3-dichloropropane (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

dibromochloromethane (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

1,1,1,2-tetrachloroethane (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

hexachlorobutadiene (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

2-chloronaphthalene (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

diethyl phthalate (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

di-n-octyl phthalate (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

hexachloroethane (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case

compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history.

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

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

boron {diboron trioxide}

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

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

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2024.30.5942.10989 (30 Jan 2024)
HazWasteOnline Database: 2024.26.5938.10982 (26 Jan 2024)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023

Waste Classification Report

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

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

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

DVELR-7KFPJ-GOTZ6

Job name

Water For Life - Havant Thicket - Section F Phase 3 GI

Description/Comments

Phase 3 GI was carried out between October 2023 and May 2024 by SOCOTEC UK Limited.

41 soil samples were collected along Section F by SOCOTEC during the Phase 3 GI.

Laboratory analysis was carried out by SOCOTEC Environmental Chemistry.

Project

Water for Life

Site

Section F

Classified by

Name:
Samuel Doyle
Date:
08 Nov 2024 16:20 GMT
Telephone:
07505455315

Company:
Stantec UK Ltd
1st Floor, Vision Court
Caxton Place
Cardiff
CF23 8HA

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	08 Aug 2024

Next 3 year Refresher due by Aug 2027

Purpose of classification

2 - Material Characterisation

Address of the waste

N/A **Post Code** N/A

SIC for the process giving rise to the waste

42910 Construction of water projects

Description of industry/producer giving rise to the waste

Water industry

Description of the specific process, sub-process and/or activity that created the waste

Excavation to install a new pipeline through a combination of open cut and trenchless crossing.

Description of the waste

Exploratory Hole Locations advanced along Section F encountered Made Ground and natural stratum.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	3F3517DS	1	Non Hazardous		3
2	3F3517DS[2]	1.3	Non Hazardous		6
3	3F3519HP	0.5	Non Hazardous		8
4	3F3519HP[2]	1	Non Hazardous		10
5	3F3521HP	0.5	Non Hazardous		12
6	3F3523DR	0.15	Non Hazardous		14
7	3F3523DR[2]	1	Non Hazardous		17
8	3F3523DR[3]	1.3	Non Hazardous		20
9	3F3523DR[4]	7	Non Hazardous		22
10	3F3524DR	0.1	Non Hazardous		24
11	3F3524DR[2]	1.1	Non Hazardous		27
12	3F3524DR[3]	2	Non Hazardous		29
13	3F3601HP	0.5	Non Hazardous		31
14	3F3601HP[2]	1	Non Hazardous		33
15	3F3602HP	0.5	Non Hazardous		35
16	3F3602HP[2]	0.95	Non Hazardous		37
17	3F7510IT	0.5	Non Hazardous		39
18	3F7512IT	0.1	Non Hazardous		41
19	3F7512IT[2]	0.5	Non Hazardous		44
20	3F7512IT[3]	1	Non Hazardous		46
21	3F7513IT	0.5	Non Hazardous		48
22	3F7513IT[2]	2	Non Hazardous		51
23	3W8554DS	0.5	Non Hazardous		53
24	3W8554DS[2]	1.6	Non Hazardous		56
25	3W8554DS[3]	5.3	Non Hazardous		59
26	3W8556DS	0.5	Non Hazardous		62
27	3W8556DS[2]	1.7	Non Hazardous		65
28	3W8558SA	0.5	Non Hazardous		68
29	3W8558SA[2]	1	Non Hazardous		71
30	3W8558SA[3]	3.8	Non Hazardous		74
31	3W8558SA[4]	7.2	Non Hazardous		77
32	3W8559TP	0.1	Non Hazardous		80
33	3W8559TP[2]	0.5	Non Hazardous		83
34	3W8563TP	0.1	Non Hazardous		86
35	3W8563TP[2]	1	Non Hazardous		89
36	3W8563TP[3]	3	Non Hazardous		92
37	3W8567SA	0.5	Non Hazardous		95
38	3W8567SA[2]	2.3	Non Hazardous		98
39	3W8567SA[3]	2.9	Non Hazardous		101
40	3W8567SA[4]	7.2	Non Hazardous		104
41	3W8559TP[3]	3.8	Non Hazardous		106

Related documents

#	Name	Description
1	GAC Tool Template v4	waste stream template used to create this Job

Report

Created by: Samuel Doyle

Created date: 08 Nov 2024 16:20 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	108
Appendix B: Rationale for selection of metal species	109
Appendix C: Version	110

Classification of sample: 3F3517DS

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

Sample details

Sample name:
3F3517DS
Sample Depth:
1 m
Moisture content:
17.8%
(no 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: 17.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.8	mg/kg	1.32	1.056	mg/kg	0.000106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.9	mg/kg	1.462	5.7	mg/kg	0.00057 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2.5	mg/kg	1.126	2.815	mg/kg	0.000281 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2	mg/kg	1.56	3.12	mg/kg	0.0002 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5.4	mg/kg	2.976	16.072	mg/kg	0.00161 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		17.6	mg/kg	2.774	48.825	mg/kg	0.00488 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<LOD
12	pH			PH		8.6	pH		8.6	pH	8.6 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]									
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]									
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
16		benzene									
		601-020-00-8	200-753-7	71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
17		toluene									
		601-021-00-3	203-625-9	108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene									
		601-023-00-4	202-849-4	100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
19		naphthalene									
		601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene									
			205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
21		acenaphthene									
			201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
22		fluorene									
			201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
23		phenanthrene									
			201-581-5	85-01-8		0.21 mg/kg		0.21 mg/kg	0.000021 %		
24		anthracene									
			204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
25		fluoranthene									
			205-912-4	206-44-0		0.24 mg/kg		0.24 mg/kg	0.000024 %		
26		pyrene									
			204-927-3	129-00-0		0.14 mg/kg		0.14 mg/kg	0.000014 %		
27		benzo[a]anthracene									
		601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
28		chrysene									
		601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
29		benzo[b]fluoranthene									
		601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
30		benzo[k]fluoranthene									
		601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
31		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**
32		indeno[123-cd]pyrene									
			205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
33		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**
34		benzo[ghi]perylene									
			205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
35		coronene									
			205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
36		TPH (C6 to C40) petroleum group									
				TPH		<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<**LOD**
37		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**
								Total:	0.0206 %		

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: 3F3517DS[2]

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

Sample details

Sample name:
3F3517DS[2]
Sample Depth:
1.3 m
Moisture content:
17.9%
(no 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: 17.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.9	mg/kg	1.32	10.431	mg/kg	0.00104 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26.8	mg/kg	1.462	39.17	mg/kg	0.00392 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.5	mg/kg	1.126	10.696	mg/kg	0.00107 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12.4	mg/kg	1.56	19.342	mg/kg	0.00124 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		56.1	mg/kg	2.774	155.63	mg/kg	0.0156 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		2.2	mg/kg	3.22	7.084	mg/kg	0.000708 %		
11	pH			PH		9.1	pH		9.1	pH	9.1 pH		
12	TPH (C6 to C40) petroleum group			TPH		<24.4	mg/kg		<24.4	mg/kg	<0.00244 %		<**LOD**
										Total:	0.0263 %		

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: 3F3519HP

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

Sample details

Sample name:
3F3519HP
Sample Depth:
0.5 m
Moisture content:
16.1%
(no 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% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.8	mg/kg	1.32	5.017	mg/kg	0.000502 %		
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.5	mg/kg	1.462	19.731	mg/kg	0.00197 %		
4		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.7	mg/kg	1.126	6.418	mg/kg	0.000642 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10.5	mg/kg	1.56	16.378	mg/kg	0.00105 %		
8		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**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		34	mg/kg	2.774	94.321	mg/kg	0.00943 %		
10		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		2.6	mg/kg	3.22	8.372	mg/kg	0.000837 %		
11		pH			PH		8.8	pH		8.8	pH	8.8 pH		
12		TPH (C6 to C40) petroleum group			TPH		<23.8	mg/kg		<23.8	mg/kg	<0.00238 %		<**LOD**
											Total:	0.0171 %		

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: 3F3519HP[2]

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

Sample details

Sample name:
3F3519HP[2]
Sample Depth:
1 m
Moisture content:
15.7%
(no 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: 15.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.4	mg/kg	1.32	0.528	mg/kg	0.0000528 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.3	mg/kg	1.462	4.823	mg/kg	0.000482 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2.4	mg/kg	1.126	2.702	mg/kg	0.00027 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2.3	mg/kg	1.56	3.588	mg/kg	0.00023 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16	mg/kg	2.774	<44.386	mg/kg	<0.00444 %		<**LOD**
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		2	mg/kg	3.22	6.44	mg/kg	0.000644 %		
11	pH			PH		9	pH		9	pH	9pH		
12	TPH (C6 to C40) petroleum group			TPH		<23.7	mg/kg		<23.7	mg/kg	<0.00237 %		<**LOD**
										Total:	0.00871 %		

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: 3F3521HP

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

Sample details

Sample name:
3F3521HP
Sample Depth:
0.5 m
Moisture content:
14.5%
(no 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: 14.5% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.9	mg/kg	1.32	10.431	mg/kg	0.00104 %		
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %		
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %		
4		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	20.266	mg/kg	0.00203 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.3	mg/kg	1.56	20.746	mg/kg	0.00133 %		
8		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**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		38.7	mg/kg	2.774	107.359	mg/kg	0.0107 %		
10		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11		pH			PH		7.1	pH		7.1	pH	7.1 pH		
12		TPH (C6 to C40) petroleum group			TPH		<23.4	mg/kg		<23.4	mg/kg	<0.00234 %		<**LOD**
											Total:	0.0206 %		

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: 3F3523DR

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

Sample details

Sample name:
3F3523DR
Sample Depth:
0.15 m
Moisture content:
15.1%
(no 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: 15.1% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.5	mg/kg	1.32	12.543	mg/kg	0.00125 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.4	mg/kg	1.142	1.599	mg/kg	0.00016 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25.1	mg/kg	1.462	36.685	mg/kg	0.00367 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1	mg/kg	1.405	1.405	mg/kg	0.000141 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.1	mg/kg	1.126	14.749	mg/kg	0.00147 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	31.7	mg/kg	1.56	49.446	mg/kg	0.00317 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25.3	mg/kg	2.976	75.299	mg/kg	0.00753 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		56.3	mg/kg	2.774	156.184	mg/kg	0.0156 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**
12	pH			PH		8	pH		8	pH	8pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number									
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
16		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
17		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
18	●	ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
19		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
20	●	acenaphthylene											
			205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
21	●	acenaphthene											
			201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
22	●	fluorene											
			201-695-5	86-73-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
23	●	phenanthrene											
			201-581-5	85-01-8		0.43	mg/kg		0.43	mg/kg	0.000043 %		
24	●	anthracene											
			204-371-1	120-12-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
25	●	fluoranthene											
			205-912-4	206-44-0		0.5	mg/kg		0.5	mg/kg	0.00005 %		
26	●	pyrene											
			204-927-3	129-00-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
27		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		0.22	mg/kg		0.22	mg/kg	0.000022 %		
28		chrysene											
		601-048-00-0	205-923-4	218-01-9		0.22	mg/kg		0.22	mg/kg	0.000022 %		
29		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		0.27	mg/kg		0.27	mg/kg	0.000027 %		
30		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
31		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		0.2	mg/kg		0.2	mg/kg	0.00002 %		
32	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		0.12	mg/kg		0.12	mg/kg	0.000012 %		
33		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**
34	●	benzo[ghi]perylene											
			205-883-8	191-24-2		0.11	mg/kg		0.11	mg/kg	0.000011 %		
35	●	coronene											
			205-881-7	191-07-1		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
36	●	TPH (C6 to C40) petroleum group											
				TPH		29.2	mg/kg		29.2	mg/kg	0.00292 %		
37		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**
										Total:	0.0464 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00292%)

Classification of sample: 3F3523DR[2]

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

Sample details

Sample name:
3F3523DR[2]
Sample Depth:
1 m
Moisture content:
11.7%
(no 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: 11.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.5	mg/kg	1.32	11.223	mg/kg	0.00112 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22.5	mg/kg	1.462	32.885	mg/kg	0.00329 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.6	mg/kg	1.126	8.557	mg/kg	0.000856 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11.8	mg/kg	1.56	18.406	mg/kg	0.00118 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16.7	mg/kg	2.976	49.704	mg/kg	0.00497 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42.3	mg/kg	2.774	117.346	mg/kg	0.0117 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**
12	pH			PH		7.4	pH		7.4	pH	7.4 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number							
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]									
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]									
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
16		benzene									
		601-020-00-8	200-753-7	71-43-2		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
17		toluene									
		601-021-00-3	203-625-9	108-88-3		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
18		ethylbenzene									
		601-023-00-4	202-849-4	100-41-4		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
19		naphthalene									
		601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
20		acenaphthylene									
			205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
21		acenaphthene									
			201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
22		fluorene									
			201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
23		phenanthrene									
			201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
24		anthracene									
			204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
25		fluoranthene									
			205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
26		pyrene									
			204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
27		benzo[a]anthracene									
		601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
28		chrysene									
		601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
29		benzo[b]fluoranthene									
		601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
30		benzo[k]fluoranthene									
		601-036-00-5	205-916-6	207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
31		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**
32		indeno[123-cd]pyrene									
			205-893-2	193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
33		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**
34		benzo[ghi]perylene									
			205-883-8	191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
35		coronene									
			205-881-7	191-07-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
36		TPH (C6 to C40) petroleum group									
				TPH		<22.7 mg/kg		<22.7 mg/kg	<0.00227 %		<**LOD**
37		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**
								Total:	0.0358 %		

Key

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

Classification of sample: 3F3523DR[3]

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

Sample details

Sample name:
3F3523DR[3]
Sample Depth:
1.3 m
Moisture content:
9.5%
(no 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: 9.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.7 mg/kg	1.32	16.768 mg/kg	0.00168 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31.5 mg/kg	1.462	46.039 mg/kg	0.0046 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	14.637 mg/kg	0.00146 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.3 mg/kg	1.56	23.865 mg/kg	0.00153 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		43.7 mg/kg	2.774	121.23 mg/kg	0.0121 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<**LOD**
11	pH			PH		7.9 pH		7.9 pH	7.9 pH		
12	TPH (C6 to C40) petroleum group			TPH		44.7 mg/kg		44.7 mg/kg	0.00447 %		
								Total:	0.0262 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00447%)

Classification of sample: 3F3523DR[4]

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

Sample details

Sample name:
3F3523DR[4]
Sample Depth:
7 m
Moisture content:
21.4%
(no 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: 21.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.1 mg/kg	1.462	3.069 mg/kg	0.000307 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2.2 mg/kg	1.126	2.477 mg/kg	0.000248 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.4 mg/kg	1.56	2.184 mg/kg	0.00014 %		
8	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
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		22.5 mg/kg	2.774	62.418 mg/kg	0.00624 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
11	pH			PH		7.7 pH		7.7 pH	7.7 pH		
12	TPH (C6 to C40) petroleum group			TPH		<25.4 mg/kg		<25.4 mg/kg	<0.00254 %		<LOD
								Total:	0.00993 %		

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: 3F3524DR

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

Sample details

Sample name:
3F3524DR
Sample Depth:
0.1 m
Moisture content:
19.5%
(no 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: 19.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.7	mg/kg	1.32	11.487	mg/kg	0.00115 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.4	mg/kg	1.142	1.599	mg/kg	0.00016 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28.8	mg/kg	1.462	42.093	mg/kg	0.00421 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.3	mg/kg	1.126	17.226	mg/kg	0.00172 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	33.4	mg/kg	1.56	52.098	mg/kg	0.00334 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.2	mg/kg	2.976	83.931	mg/kg	0.00839 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		63.1	mg/kg	2.774	175.049	mg/kg	0.0175 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**
12	pH			PH		8	pH		8	pH	8pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
16		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
17		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
19		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		0.13	mg/kg		0.13	mg/kg	0.000013 %		
30		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		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 %		
32		indeno[123-cd]pyrene											
			205-893-2	193-39-5		0.12	mg/kg		0.12	mg/kg	0.000012 %		
33		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**
34		benzo[ghi]perylene											
			205-883-8	191-24-2		0.12	mg/kg		0.12	mg/kg	0.000012 %		
35		coronene											
			205-881-7	191-07-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		TPH (C6 to C40) petroleum group											
				TPH		29	mg/kg		29	mg/kg	0.0029 %		
37		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**
										Total:	0.0498 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0029%)

Classification of sample: 3F3524DR[2]

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

Sample details

Sample name:
3F3524DR[2]
Sample Depth:
1.1 m
Moisture content:
19.2%
(no 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: 19.2% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.9	mg/kg	1.142	2.17	mg/kg	0.000217 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28.3	mg/kg	1.462	41.362	mg/kg	0.00414 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11.9	mg/kg	1.126	13.398	mg/kg	0.00134 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11.8	mg/kg	1.56	18.406	mg/kg	0.00118 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		65.3	mg/kg	2.774	181.152	mg/kg	0.0181 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11	pH			PH		8.1	pH		8.1	pH	8.1 pH		
12	TPH (C6 to C40) petroleum group			TPH		<24.8	mg/kg		<24.8	mg/kg	<0.00248 %		<**LOD**
										Total:	0.0288 %		

Key

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

Classification of sample: 3F3524DR[3]

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

Sample details

Sample name:
3F3524DR[3]
Sample Depth:
2 m
Moisture content:
20.7%
(no 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: 20.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1.1	mg/kg	1.32	1.452	mg/kg	0.000145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<1.2	mg/kg	1.462	<1.754	mg/kg	<0.000175 %		<LOD
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<1.6	mg/kg	1.126	<1.801	mg/kg	<0.00018 %		<LOD
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.4	mg/kg	1.56	2.184	mg/kg	0.00014 %		
8	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
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16	mg/kg	2.774	<44.386	mg/kg	<0.00444 %		<LOD
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
11	pH			PH		8.5	pH		8.5	pH	8.5 pH		
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<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
		EU CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		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									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1									
32		TPH (C6 to C40) petroleum group				142	mg/kg		142	mg/kg	0.0142 %		
				TPH									
										Total:	0.0198 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0142%)

Classification of sample: 3F3601HP

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

Sample details

Sample name:
3F3601HP
Sample Depth:
0.5 m
Moisture content:
14.7%
(no 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: 14.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.3 mg/kg	1.32	8.318 mg/kg	0.000832 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21.8 mg/kg	1.462	31.862 mg/kg	0.00319 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.7 mg/kg	1.126	9.795 mg/kg	0.00098 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13 mg/kg	1.56	20.278 mg/kg	0.0013 %		
8	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
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		45.3 mg/kg	2.774	125.669 mg/kg	0.0126 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		2.1 mg/kg	3.22	6.762 mg/kg	0.000676 %		
11	pH			PH		8.3 pH		8.3 pH	8.3 pH		
12	TPH (C6 to C40) petroleum group			TPH		<23.4 mg/kg		<23.4 mg/kg	<0.00234 %		<LOD
								Total:	0.0221 %		

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: 3F3601HP[2]

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

Sample details

Sample name:
3F3601HP[2]
Sample Depth:
1 m
Moisture content:
17.7%
(no 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: 17.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17.9 mg/kg	1.32	23.634 mg/kg	0.00236 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		52.7 mg/kg	1.462	77.024 mg/kg	0.0077 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.8 mg/kg	1.126	18.915 mg/kg	0.00189 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17.8 mg/kg	1.56	27.765 mg/kg	0.00178 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		73.8 mg/kg	2.774	204.732 mg/kg	0.0205 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.9 mg/kg	3.22	6.118 mg/kg	0.000612 %		
11	pH			PH		8.2 pH		8.2 pH	8.2 pH		
12	TPH (C6 to C40) petroleum group			TPH		<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<**LOD**
								Total:	0.0375 %		

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: 3F3602HP

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

Sample details

Sample name:
3F3602HP
Sample Depth:
0.5 m
Moisture content:
23.1%
(no 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: 23.1% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15.2 mg/kg	1.32	20.069 mg/kg	0.00201 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		46.4 mg/kg	1.462	67.816 mg/kg	0.00678 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		**<LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.8 mg/kg	1.405	1.124 mg/kg	0.000112 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31.4 mg/kg	1.126	35.353 mg/kg	0.00354 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20 mg/kg	1.56	31.196 mg/kg	0.002 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		89.3 mg/kg	2.774	247.731 mg/kg	0.0248 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		**<LOD**
11	pH			PH		8.2 pH		8.2 pH	8.2 pH		
12	TPH (C6 to C40) petroleum group			TPH		26.5 mg/kg		26.5 mg/kg	0.00265 %		
								Total:	0.0422 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00265%)

Classification of sample: 3F3602HP[2]

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

Sample details

Sample name:
3F3602HP[2]
Sample Depth:
0.95 m
Moisture content:
22.9%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.3 mg/kg	1.32	17.56 mg/kg	0.00176 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		3.7 mg/kg	1.142	4.227 mg/kg	0.000423 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		49.4 mg/kg	1.462	72.201 mg/kg	0.00722 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				2.5 mg/kg	1.405	3.513 mg/kg	0.000351 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.3 mg/kg	1.126	22.856 mg/kg	0.00229 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17.5 mg/kg	1.56	27.297 mg/kg	0.00175 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		89.3 mg/kg	2.774	247.731 mg/kg	0.0248 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<**LOD**
11	pH			PH		8.1 pH		8.1 pH	8.1 pH		
12	TPH (C6 to C40) petroleum group			TPH		29.1 mg/kg		29.1 mg/kg	0.00291 %		
								Total:	0.0417 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00291%)

Classification of sample: 3F7510IT

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

Sample details

Sample name:
3F7510IT
Sample Depth:
0.5 m
Moisture content:
16%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.5	mg/kg	1.32	8.582	mg/kg	0.000858 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1	mg/kg	1.142	1.257	mg/kg	0.000126 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21.9	mg/kg	1.462	32.008	mg/kg	0.0032 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.8	mg/kg	1.126	9.908	mg/kg	0.000991 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16.5	mg/kg	1.56	25.737	mg/kg	0.00165 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		51.3	mg/kg	2.774	142.314	mg/kg	0.0142 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %		
11	pH			PH		7.6	pH		7.6	pH	7.6 pH		
12	TPH (C6 to C40) petroleum group			TPH		49	mg/kg		49	mg/kg	0.0049 %		
										Total:	0.0263 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0049%)

Classification of sample: 3F7512IT

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

Sample details

Sample name:
3F7512IT
Sample Depth:
0.1 m
Moisture content:
19.3%
(no 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: 19.3% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.6	mg/kg	1.32	11.355	mg/kg	0.00114 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.3	mg/kg	1.142	1.485	mg/kg	0.000149 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27.9	mg/kg	1.462	40.777	mg/kg	0.00408 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.1	mg/kg	1.126	15.875	mg/kg	0.00159 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	49.2	mg/kg	1.56	76.743	mg/kg	0.00492 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30.8	mg/kg	2.976	91.669	mg/kg	0.00917 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		64.8	mg/kg	2.774	179.765	mg/kg	0.018 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**
12	pH			PH		8.6	pH		8.6	pH	8.6 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
16		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
17		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
19		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		phenanthrene											
			201-581-5	85-01-8		0.17	mg/kg		0.17	mg/kg	0.000017 %		
24		anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluoranthene											
			205-912-4	206-44-0		0.56	mg/kg		0.56	mg/kg	0.000056 %		
26		pyrene											
			204-927-3	129-00-0		0.54	mg/kg		0.54	mg/kg	0.000054 %		
27		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		0.38	mg/kg		0.38	mg/kg	0.000038 %		
28		chrysene											
		601-048-00-0	205-923-4	218-01-9		0.34	mg/kg		0.34	mg/kg	0.000034 %		
29		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		0.56	mg/kg		0.56	mg/kg	0.000056 %		
30		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		0.21	mg/kg		0.21	mg/kg	0.000021 %		
31		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		0.48	mg/kg		0.48	mg/kg	0.000048 %		
32		indeno[123-cd]pyrene											
			205-893-2	193-39-5		0.26	mg/kg		0.26	mg/kg	0.000026 %		
33		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**
34		benzo[ghi]perylene											
			205-883-8	191-24-2		0.24	mg/kg		0.24	mg/kg	0.000024 %		
35		coronene											
			205-881-7	191-07-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		TPH (C6 to C40) petroleum group											
				TPH		38.9	mg/kg		38.9	mg/kg	0.00389 %		
37		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**
										Total:	0.0535 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00389%)

Classification of sample: 3F7512IT[2]

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

Sample details

Sample name:
3F7512IT[2]
Sample Depth:
0.5 m
Moisture content:
19%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.3	mg/kg	1.32	12.279	mg/kg	0.00123 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36.3	mg/kg	1.462	53.054	mg/kg	0.00531 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.3	mg/kg	1.126	13.848	mg/kg	0.00138 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14.9	mg/kg	1.56	23.241	mg/kg	0.00149 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		71.8	mg/kg	2.774	199.184	mg/kg	0.0199 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %		
11	pH			PH		8.7	pH		8.7	pH	8.7 pH		
12	TPH (C6 to C40) petroleum group			TPH		28.9	mg/kg		28.9	mg/kg	0.00289 %		
										Total:	0.0327 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00289%)

Classification of sample: 3F7512IT[3]

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

Sample details

Sample name:
3F7512IT[3]
Sample Depth:
1 m
Moisture content:
18.4%
(no 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: 18.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.922	mg/kg	0.000792 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.3	mg/kg	1.142	1.485	mg/kg	0.000149 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.2	mg/kg	1.462	33.908	mg/kg	0.00339 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.2	mg/kg	1.126	10.358	mg/kg	0.00104 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7.8	mg/kg	1.56	12.167	mg/kg	0.00078 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		51.3	mg/kg	2.774	142.314	mg/kg	0.0142 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11	pH			PH		8.9	pH		8.9	pH	8.9 pH		
12	TPH (C6 to C40) petroleum group			TPH		51.1	mg/kg		51.1	mg/kg	0.00511 %		
										Total:	0.0258 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00511%)

Classification of sample: 3F7513IT

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

Sample details

Sample name:
3F7513IT
Sample Depth:
0.5 m
Moisture content:
15.5%
(no 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: 15.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.922	mg/kg	0.000792 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19.5	mg/kg	1.462	28.5	mg/kg	0.00285 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.4	mg/kg	1.126	9.457	mg/kg	0.000946 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.6	mg/kg	1.56	24.333	mg/kg	0.00156 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17.8	mg/kg	2.976	52.978	mg/kg	0.0053 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		49.3	mg/kg	2.774	136.765	mg/kg	0.0137 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**
12	pH			PH		8.9	pH		8.9	pH	8.9 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
16		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
22		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
23		phenanthrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			201-581-5	85-01-8									
24		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
25		fluoranthene				0.69	mg/kg		0.69	mg/kg	0.000069 %		
			205-912-4	206-44-0									
26		pyrene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			204-927-3	129-00-0									
27		benzo[a]anthracene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
33		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									
34		benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
35		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									
36		TPH (C6 to C40) petroleum group				113	mg/kg		113	mg/kg	0.0113 %		
				TPH									
37		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									
										Total:	0.0472 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0113%)

Classification of sample: 3F7513IT[2]

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

Sample details

Sample name:
3F7513IT[2]
Sample Depth:
2 m
Moisture content:
16.7%
(no 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: 16.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.3	mg/kg	1.32	3.037	mg/kg	0.000304 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9	mg/kg	1.462	13.154	mg/kg	0.00132 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.5	mg/kg	1.126	5.066	mg/kg	0.000507 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3.5	mg/kg	1.56	5.459	mg/kg	0.00035 %		
8	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**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		25.5	mg/kg	2.774	70.741	mg/kg	0.00707 %		
10	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
11	pH			PH		9.3	pH		9.3	pH	9.3 pH		
12	TPH (C6 to C40) petroleum group			TPH		60.5	mg/kg		60.5	mg/kg	0.00605 %		
										Total:	0.016 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00605%)

Classification of sample: 3W8554DS

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

Sample details

Sample name:
3W8554DS
Sample Depth:
0.5 m
Moisture content:
24.1%
(no 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: 24.1% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.9	mg/kg	1.32	19.673	mg/kg	0.00197 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.7	mg/kg	1.142	1.942	mg/kg	0.000194 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		44.1	mg/kg	1.462	64.455	mg/kg	0.00645 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.4	mg/kg	1.405	1.967	mg/kg	0.000197 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27.2	mg/kg	1.126	30.624	mg/kg	0.00306 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17.1	mg/kg	1.56	26.673	mg/kg	0.00171 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		62	mg/kg	2.976	184.528	mg/kg	0.0185 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		78.9	mg/kg	2.774	218.88	mg/kg	0.0219 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		phenol				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.13	mg/kg		<0.13	mg/kg	<0.000013 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-912-4	206-44-0									
28		pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group		TPH		28.7	mg/kg		28.7	mg/kg	0.00287 %		
39		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									
										Total:	0.0674 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00287%)

Classification of sample: 3W8554DS[2]

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

Sample details

Sample name:
3W8554DS[2]
Sample Depth:
1.6 m
Moisture content:
19.7%
(no 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: 19.7% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10.9	mg/kg	1.462	15.931	mg/kg	0.00159 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10.8	mg/kg	1.126	12.16	mg/kg	0.00122 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3.8	mg/kg	1.56	5.927	mg/kg	0.00038 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11	mg/kg	2.976	32.739	mg/kg	0.00327 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		30.9	mg/kg	2.774	85.721	mg/kg	0.00857 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.5	pH		8.5	pH	8.5 pH		
15		phenol 604-001-00-2	203-632-7	108-95-2		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7] 604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
18		benzene 601-020-00-8	200-753-7	71-43-2		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
19		toluene 601-021-00-3	203-625-9	108-88-3		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
20		ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
21		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		fluorene	201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		phenanthrene	201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		fluoranthene	205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		pyrene	204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		chrysene 601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		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**
34		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
37		coronene	205-881-7	191-07-1		<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
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				38	mg/kg		38	mg/kg	0.0038 %		
				TPH									
39		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									
										Total:	0.03 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

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: 3W8554DS[3]

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

Sample details

Sample name:
3W8554DS[3]
Sample Depth:
5.3 m
Moisture content:
20%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		0.4 mg/kg	1.32	0.528 mg/kg	0.0000528 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.3 mg/kg	1.462	3.362 mg/kg	0.000336 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.7 mg/kg	1.126	5.292 mg/kg	0.000529 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1.5 mg/kg	1.56	2.34 mg/kg	0.00015 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		4.3 mg/kg	2.976	12.798 mg/kg	0.00128 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.5 pH		8.5 pH	8.5 pH		
				PH							
15		phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8							
23		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9							
24		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7							
25		phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8							
26		anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7							
27		fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0							
28		pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5							
35		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
36		benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2							
37		coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				62.9	mg/kg		62.9	mg/kg	0.00629 %		
				TPH									
39		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									
										Total:	0.0238 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00629%)

Classification of sample: 3W8556DS

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

Sample details

Sample name:
3W8556DS
Sample Depth:
0.5 m
Moisture content:
15.2%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.5 mg/kg	1.32	7.262 mg/kg	0.000726 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.4 mg/kg	1.462	21.046 mg/kg	0.0021 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.2 mg/kg	1.923	0.385 mg/kg	0.0000385 %		
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8 mg/kg	1.126	9.007 mg/kg	0.000901 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	114.5 mg/kg	1.56	178.599 mg/kg	0.0114 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.8 mg/kg	2.976	20.239 mg/kg	0.00202 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		21.4 mg/kg	2.774	59.367 mg/kg	0.00594 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		9.1	pH		9.1	pH	9.1 pH		
15		phenol				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0									
28		pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				43.5	mg/kg		43.5	mg/kg	0.00435 %		
				TPH									
39		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									
										Total:	0.0383 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: Concentration too low for oxidation to occur.

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00003%)

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00435%)

Classification of sample: 3W8556DS[2]

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

Sample details

Sample name:
3W8556DS[2]
Sample Depth:
1.7 m
Moisture content:
15%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.2 mg/kg	1.32	4.225 mg/kg	0.000423 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9 mg/kg	1.126	10.133 mg/kg	0.00101 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.976	47.62 mg/kg	0.00476 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		22.5 mg/kg	2.774	62.418 mg/kg	0.00624 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				6.9 pH		6.9 pH	6.9 pH		
				PH							
15		phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-917-1	208-96-8							
23		acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			201-469-6	83-32-9							
24		fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			201-695-5	86-73-7							
25		phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			201-581-5	85-01-8							
26		anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			204-371-1	120-12-7							
27		fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-912-4	206-44-0							
28		pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-893-2	193-39-5							
35		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							
36		benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-883-8	191-24-2							
37		coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				28.9	mg/kg		28.9	mg/kg	0.00289 %		
				TPH									
39		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									
										Total:	0.031 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00289%)

Classification of sample: 3W8558SA

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

Sample details

Sample name:
3W8558SA
Sample Depth:
0.5 m
Moisture content:
16.5%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.2 mg/kg	1.32	6.866 mg/kg	0.000687 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19.6 mg/kg	1.462	28.646 mg/kg	0.00286 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.6 mg/kg	1.126	16.438 mg/kg	0.00164 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.9 mg/kg	1.56	24.801 mg/kg	0.00159 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22.4 mg/kg	2.976	66.668 mg/kg	0.00667 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		45.2 mg/kg	2.774	125.391 mg/kg	0.0125 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8	pH		8	pH	8pH		
15		phenol				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
28		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				40.4	mg/kg		40.4	mg/kg	0.00404 %		
				TPH									
39		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									
										Total:	0.0408 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Concentration too low for oxidation to occur.

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00001%)

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%)
because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00404%)

Classification of sample: 3W8558SA[2]

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

Sample details

Sample name:
3W8558SA[2]
Sample Depth:
1 m
Moisture content:
12.8%
(no 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: 12.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.3 mg/kg	1.32	5.677 mg/kg	0.000568 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.1 mg/kg	1.462	33.762 mg/kg	0.00338 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.4 mg/kg	1.126	15.087 mg/kg	0.00151 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10.9 mg/kg	1.56	17.002 mg/kg	0.00109 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23.8 mg/kg	2.976	70.835 mg/kg	0.00708 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		43.2 mg/kg	2.774	119.843 mg/kg	0.012 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.1 pH		8.1 pH	8.1 pH		
				PH							
15		phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8							
23		acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9							
24		fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7							
25		phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8							
26		anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7							
27		fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0							
28		pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5							
35		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							
36		benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2							
37		coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				<22.9	mg/kg		<22.9	mg/kg	<0.00229 %		<**LOD**
				TPH									
39		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									
										Total:	0.0385 %		

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: 3W8558SA[3]

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

Sample details

Sample name:
3W8558SA[3]
Sample Depth:
3.8 m
Moisture content:
12%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24.6	mg/kg	1.32	32.48	mg/kg	0.00325 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11.2	mg/kg	1.462	16.369	mg/kg	0.00164 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10.6	mg/kg	1.126	11.934	mg/kg	0.00119 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	25.8	mg/kg	1.56	40.243	mg/kg	0.00258 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10.3	mg/kg	2.976	30.656	mg/kg	0.00307 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		61.9	mg/kg	2.774	171.72	mg/kg	0.0172 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.1	pH		8.1	pH	8.1 pH		
15		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0									
28		pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				<22.7	mg/kg		<22.7	mg/kg	<0.00227 %		<**LOD**
				TPH									
39		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									
										Total:	0.0418 %		

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: 3W8558SA[4]

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

Sample details

Sample name:
3W8558SA[4]
Sample Depth:
7.2 m
Moisture content:
14.4%
(no 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: 14.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.5	mg/kg	1.32	3.301	mg/kg	0.00033 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.5	mg/kg	1.462	8.039	mg/kg	0.000804 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.3	mg/kg	1.126	4.841	mg/kg	0.000484 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2.7	mg/kg	1.56	4.212	mg/kg	0.00027 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12.8	mg/kg	2.976	38.096	mg/kg	0.00381 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		22.9	mg/kg	2.774	63.528	mg/kg	0.00635 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.9	mg/kg	3.22	2.898	mg/kg	0.00029 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.7 pH		8.7 pH	8.7 pH		
				PH							
15		phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8							
23		acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9							
24		fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7							
25		phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8							
26		anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7							
27		fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0							
28		pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5							
35		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							
36		benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2							
37		coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				29.9	mg/kg		29.9	mg/kg	0.00299 %		
				TPH									
39		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									
										Total:	0.0259 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00299%)

Classification of sample: 3W8559TP

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

Sample details

Sample name:
3W8559TP
Sample Depth:
0.1 m
Moisture content:
16.3%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.1 mg/kg	1.32	13.335 mg/kg	0.00133 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		32.2 mg/kg	1.462	47.062 mg/kg	0.00471 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.1 mg/kg	1.126	18.127 mg/kg	0.00181 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	31.5 mg/kg	1.56	49.134 mg/kg	0.00315 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22.6 mg/kg	2.976	67.264 mg/kg	0.00673 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		54 mg/kg	2.774	149.804 mg/kg	0.015 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		8.4	pH		8.4	pH	8.4 pH		
15		phenol				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-912-4	206-44-0									
28		pyrene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				26	mg/kg		26	mg/kg	0.0026 %		
				TPH									
39		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									
										Total:	0.0461 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0026%)

Classification of sample: 3W8559TP[2]

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

Sample details

Sample name:
3W8559TP[2]
Sample Depth:
0.5 m
Moisture content:
11.8%
(no 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: 11.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.4 mg/kg	1.32	16.372 mg/kg	0.00164 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		32.5 mg/kg	1.462	47.501 mg/kg	0.00475 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.3 mg/kg	1.126	20.604 mg/kg	0.00206 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.8 mg/kg	2.976	64.883 mg/kg	0.00649 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		55.9 mg/kg	2.774	155.075 mg/kg	0.0155 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.3 pH		8.3 pH	8.3 pH		
				PH							
15		phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8							
23		acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9							
24		fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7							
25		phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8							
26		anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7							
27		fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-912-4	206-44-0							
28		pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5							
35		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							
36		benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2							
37		coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				<22.7	mg/kg		<22.7	mg/kg	<0.00227 %		<**LOD**
				TPH									
39		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									
										Total:	0.0453 %		

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: 3W8563TP

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

Sample details

Sample name:
3W8563TP
Sample Depth:
0.1 m
Moisture content:
15.3%
(no 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: 15.3% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.7 mg/kg	1.462	21.485 mg/kg	0.00215 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.6 mg/kg	1.126	8.557 mg/kg	0.000856 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23.4 mg/kg	1.56	36.5 mg/kg	0.00234 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8.5 mg/kg	2.976	25.298 mg/kg	0.00253 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		33.9 mg/kg	2.774	94.044 mg/kg	0.0094 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH		PH		7.9	pH		7.9	pH	7.9 pH		
15		phenol				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-912-4	206-44-0									
28		pyrene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-893-2	193-39-5									
35		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									
36		benzo[ghi]perylene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
38		TPH (C6 to C40) petroleum group				191 mg/kg		191 mg/kg	0.0191 %		
				TPH							
39		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							
								Total:	0.0478 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0191%)

Classification of sample: 3W8563TP[2]

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

Sample details

Sample name:
3W8563TP[2]
Sample Depth:
1 m
Moisture content:
17.6%
(no 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: 17.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.9 mg/kg	1.32	9.11 mg/kg	0.000911 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.2 mg/kg	1.462	33.908 mg/kg	0.00339 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.5 mg/kg	1.126	14.074 mg/kg	0.00141 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.1 mg/kg	1.56	23.553 mg/kg	0.00151 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.5 mg/kg	2.976	63.99 mg/kg	0.0064 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		59.7 mg/kg	2.774	165.617 mg/kg	0.0166 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14		pH				8.2 pH		8.2 pH	8.2 pH		
				PH							
15		phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18		benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2							
19		toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3							
20		ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4							
21		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3							
22		acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8							
23		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9							
24		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7							
25		phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8							
26		anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7							
27		fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0							
28		pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9							
33		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							
34		indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5							
35		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3							
36		benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2							
37		coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				<24.3	mg/kg		<24.3	mg/kg	<0.00243 %		<**LOD**
				TPH									
39		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									
										Total:	0.0433 %		

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: 3W8563TP[3]

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

Sample details

Sample name:
3W8563TP[3]
Sample Depth:
3 m
Moisture content:
17.1%
(no 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% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.7	mg/kg	1.32	8.846	mg/kg	0.000885 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22.4	mg/kg	1.462	32.739	mg/kg	0.00327 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.126	13.511	mg/kg	0.00135 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	9.5	mg/kg	1.56	14.818	mg/kg	0.00095 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27.8	mg/kg	2.976	82.74	mg/kg	0.00827 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		66.7	mg/kg	2.774	185.036	mg/kg	0.0185 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
12	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
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				8	pH		8	pH	8pH		
				PH									
15		phenol				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
26		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
28		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		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									
34		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
37		coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
38		TPH (C6 to C40) petroleum group				<24.1	mg/kg		<24.1	mg/kg	<0.00241 %		<**LOD**
				TPH									
39		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									
										Total:	0.0463 %		

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: 3W8567SA

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

Sample details

Sample name:
3W8567SA
Sample Depth:
0.5 m
Moisture content:
17.4%
(no 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: 17.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.5 mg/kg	1.32	5.941 mg/kg	0.000594 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.4 mg/kg	1.462	22.508 mg/kg	0.00225 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.6 mg/kg	1.126	17.564 mg/kg	0.00176 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12.4 mg/kg	1.56	19.342 mg/kg	0.00124 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11.2 mg/kg	2.976	33.334 mg/kg	0.00333 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		30.3 mg/kg	2.774	84.057 mg/kg	0.00841 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**
12	pH			PH		8.1 pH		8.1 pH	8.1 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]									
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]									
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
16		benzene									
		601-020-00-8	200-753-7	71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
17		toluene									
		601-021-00-3	203-625-9	108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene									
		601-023-00-4	202-849-4	100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
19		naphthalene									
		601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene									
			205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
21		acenaphthene									
			201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
22		fluorene									
			201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
23		phenanthrene									
			201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
24		anthracene									
			204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
25		fluoranthene									
			205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
26		pyrene									
			204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
27		benzo[a]anthracene									
		601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
28		chrysene									
		601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
29		benzo[b]fluoranthene									
		601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
30		benzo[k]fluoranthene									
		601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
31		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**
32		indeno[123-cd]pyrene									
			205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
33		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**
34		benzo[ghi]perylene									
			205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
35		coronene									
			205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
36		TPH (C6 to C40) petroleum group									
				TPH		<24.2 mg/kg		<24.2 mg/kg	<0.00242 %		<**LOD**
37		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**
								Total:	0.0304 %		

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: 3W8567SA[2]

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

Sample details

Sample name:
3W8567SA[2]
Sample Depth:
2.3 m
Moisture content:
20.5%
(no 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: 20.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.2 mg/kg	1.32	18.749 mg/kg	0.00187 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		46.5 mg/kg	1.462	67.962 mg/kg	0.0068 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.3 mg/kg	1.56	20.746 mg/kg	0.00133 %		
8	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
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	41.668 mg/kg	0.00417 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		40.3 mg/kg	2.774	111.798 mg/kg	0.0112 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
12	pH			PH		8.1 pH		8.1 pH	8.1 pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12	mg/kg		<0.12	mg/kg	<0.000012 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
16		benzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
21	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
22	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
23	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
24	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
25	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
26	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
27		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
31		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									
32	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
33		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									
34	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
35	●	coronene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-881-7	191-07-1									
36	●	TPH (C6 to C40) petroleum group				<25.2	mg/kg		<25.2	mg/kg	<0.00252 %		<**LOD**
				TPH									
37		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									
										Total:	0.0401 %		

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: 3W8567SA[3]

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

Sample details

Sample name:
3W8567SA[3]
Sample Depth:
2.9 m
Moisture content:
17.6%
(no 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: 17.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1 mg/kg	1.32	12.015 mg/kg	0.0012 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26.6 mg/kg	1.462	38.877 mg/kg	0.00389 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.9 mg/kg	1.126	17.902 mg/kg	0.00179 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13 mg/kg	1.56	20.278 mg/kg	0.0013 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32.8 mg/kg	2.976	97.621 mg/kg	0.00976 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		62.3 mg/kg	2.774	172.829 mg/kg	0.0173 %		
11	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<100 mg/kg		<100 mg/kg	<0.01 %		<**LOD**
12	pH			PH		8 pH		8 pH	8pH		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
14		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]									
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
15		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]									
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<**LOD**
16		benzene									
		601-020-00-8	200-753-7	71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
17		toluene									
		601-021-00-3	203-625-9	108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
18		ethylbenzene									
		601-023-00-4	202-849-4	100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<**LOD**
19		naphthalene									
		601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene									
			205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
21		acenaphthene									
			201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
22		fluorene									
			201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
23		phenanthrene									
			201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
24		anthracene									
			204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
25		fluoranthene									
			205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
26		pyrene									
			204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
27		benzo[a]anthracene									
		601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
28		chrysene									
		601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
29		benzo[b]fluoranthene									
		601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
30		benzo[k]fluoranthene									
		601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
31		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**
32		indeno[123-cd]pyrene									
			205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
33		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**
34		benzo[ghi]perylene									
			205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
35		coronene									
			205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
36		TPH (C6 to C40) petroleum group									
				TPH		<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<**LOD**
37		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**
								Total:	0.048 %		

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: 3W8567SA[4]

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

Sample details

Sample name:
3W8567SA[4]
Sample Depth:
7.2 m
Moisture content:
17.3%
(no 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: 17.3% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.2	mg/kg	1.32	9.506	mg/kg	0.000951 %		
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24.4	mg/kg	1.462	35.662	mg/kg	0.00357 %		
4		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.6	mg/kg	1.126	20.942	mg/kg	0.00209 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11.2	mg/kg	1.56	17.47	mg/kg	0.00112 %		
8		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**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		48.4	mg/kg	2.774	134.269	mg/kg	0.0134 %		
10		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7	mg/kg	3.22	2.254	mg/kg	0.000225 %		
11		pH			PH		7.3	pH		7.3	pH	7.3 pH		
12		TPH (C6 to C40) petroleum group			TPH		38	mg/kg		38	mg/kg	0.0038 %		
											Total:	0.0254 %		

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 for cumulative determinand results below the threshold of: 10000 mg/kg (1%) because: No liquid phase present. Insufficient concentration to produce a liquid phase. Substances contained in soil matrix includes a moisture content between 11.7% to 23.9%, reducing the risk of flammability.

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: 3W8559TP[3]

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

Sample details

Sample name:
3W8559TP[3]
Sample Depth:
3.8 m
Moisture content:
15.6%
(no 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: 15.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.2	mg/kg	1.32	2.905	mg/kg	0.00029 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.2	mg/kg	1.462	22.216	mg/kg	0.00222 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<**LOD**
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.6	mg/kg	1.126	5.179	mg/kg	0.000518 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	4	mg/kg	1.56	6.239	mg/kg	0.0004 %		
8	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**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10.2	mg/kg	2.976	30.358	mg/kg	0.00304 %		
10	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		23	mg/kg	2.774	63.805	mg/kg	0.00638 %		
11	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<**LOD**
12	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**
13	asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<100	mg/kg		<100	mg/kg	<0.01 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
				77536-66-4 77536-68-6 77536-67-5 12001-29-5									
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		phenol				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18		benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
21		TPH (C6 to C40) petroleum group				<23.7	mg/kg		<23.7	mg/kg	<0.00237 %		<**LOD**
				TPH									
22		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									
										Total:	0.0257 %		

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 GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pH** (CAS Number: PH)

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

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

coronene (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

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

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

boron {diboron trioxide}

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

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

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2024.304.6320.11573 (30 Oct 2024)
HazWasteOnline Database: 2024.304.6320.11573 (30 Oct 2024)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024

Appendix F: Gas Monitoring Results

Table F1: Ground Gas Monitoring Results Summary for 2F3500DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
20 April 2023	0.1	2.4	19.3	<1	<1	0.1	<0.1
5 May 2023	<0.1	2.3	19.2	<1	<1	0	<0.1
23 May 2023	<0.1	2.5	16.1	1	1	0.6	<0.1
16 June 2023	<0.1	2.5	17.8	2	1	0.5	<0.1
13 July 2023	<0.1	2.9	18.8	1	<1	0.6	-0.3
10 August 2023	<0.1	3.3	17.7	1	<1	0.7	Not reported
8 September 2023	<0.1	3.9	15.8	1	1	0.6	<0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F2: Ground Gas Monitoring Results Summary for 2F3501DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
20 April 2023	<0.1	0.6	19.8	<1	<1	0	<0.1
5 May 2023	<0.1	0.6	20.6	<1	<1	0	<0.1
23 May 2023	<0.1	0.8	18.3	<1	1	0.3	<0.1
16 June 2023	<0.1	1.4	19.6	2	1	0	<0.1
13 July 2023	<0.1	1.0	20.9	1	<1	0.4	0.1
10 August 2023	<0.1	1.8	19.6	1	<1	0.2	Not reported
8 September 2023	<0.1	1.8	18.6	<1	1	0.1	<0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F3: Ground Gas Monitoring Results Summary for 2F3502SA

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
21 April 2023	0.1	1.2	14.6	1	<1	0.1	<0.1
23 May 2023	<0.1	2.1	14.6	<1	1	0	<0.1
16 June 2023	<0.1	2.0	18.3	2	1	0	<0.1
19 July 2023	<0.1	2.1	18.9	1	1	0.5	<0.1
11 August 2023	<0.1	2.2	19.8	<1	9	9.2	<0.1
12 September 2023	<0.1	2.4	20.5	<1	<1	0	<0.1
9 October 2023	0.1	2.4	20.0	<1	<1	0	<0.1
10 November 2023	0.1	1.7	19.7	<1	<1	0	0.1
08 February 2024	0.1	2.3	19.3	<1	<1	<0.1	<0.1

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
06 March 2024	0.1	0.3	21	<1	<1	<0.1	0.2

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F4: Ground Gas Monitoring Results Summary for 2F3503SA

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
21 April 2023	<0.1	1.9	14.8	<1	<1	0	<0.1
23 May 2023	<0.1	2.1	16.5	<1	<1	0	<0.1
16 June 2023	<0.1	2.0	16.2	<1	<1	0	<0.1
14 July 2023	<0.1	2.9	18.1	1	<1	PID failed - no readings collected.	0.1
10 August 2023	<0.1	2.7	18.2	1	<1	0.5	<0.1
12 September 2023	<0.1	2.7	18.1	1	<1	0	<0.1
9 October 2023	<0.1	2.0	18.4	<1	1	0.1	<0.1
10 November 2023	0.1	0.5	21.4	<1	<1	0	<0.1
08 February 2024	0.2	1.2	20.0	<1	<1	<0.1	<0.1

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
07 March 2024	0.2	0.5	21.2	<1	<1	<0.1	-0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume
PID – Photo Ionisation Detector

Table F5: Ground Gas Monitoring Results Summary for 2F3504DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
21 April 2023	0.1	2.5	17.2	<1	<1	0.1	<0.1
22 May 2023	<0.1	3.0	18.3	<1	<1	0	<0.1
15 June 2023	<0.1	1.6	20.9	3	1	0	<0.1
14 July 2023	<0.1	3.4	18.1	<1	<1	PID failed - no readings collected.	0.2
10 August 2023	<0.1	5.1	14.9	1	1	0.3	<0.1
12 September 2023	<0.1	5.7	16.0	<1	<1	0	<0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume
PID – Photo Ionisation Detector

Table F6: Ground Gas Monitoring Results Summary for 2F3512RC

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
23 May 2023	<0.1	0.2	16.9	5	<1	0.3	<0.1
15 June 2023	<0.1	0.9	18.5	4	<1	0.1	<0.1
13 July 2023	<0.1	2.3	18.0	1	<1	0.2	<0.1
9 August 2023	<0.1	1.9	18.8	2	<1	0.4	0.1
8 September 2023	<0.1	2.1	18.4	1	1	0.5	<0.1
9 October 2023	0.1	2.3	19.1	<1	<1	0.7	<0.1
8 November 2023	0.1	2.8	18.6	<1	<1	0	0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F7: Ground Gas Monitoring Results Summary for 2F3513DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
21 April 2023	0.1	3.7	17.5	<1	<1	0	<0.1
5 May 2023	<0.1	3.7	15.4	<1	1	0	<0.1
22 May 2023	<0.1	3.8	15.3	<1	1	0.4	<0.1
15 June 2023	<0.1	3.4	18.4	3	<1	0.1	<0.1
13 July 2023	<0.1	4.1	17.7	<1	<1	0	0.3
10 August 2023	<0.1	3.4	16.8	1	<1	0.7	<0.1
8 September 2023	<0.1	4.0	17.2	1	1	0.1	<0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F8: Ground Gas Monitoring Results Summary for 2F3515DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
21 April 2023	<0.1	3.1	19.3	<1	<1	0	<0.1
5 May 2023	<0.1	3.1	17.6	<1	<1	0	<0.1
22 May 2023	<0.1	3.7	14.6	<1	1	1.3	<0.1
15 June 2023	<0.1	3.6	17.3	3	<1	0.3	<0.1
13 July 2023	<0.1	4.8	17.0	1	1	0.1	<0.1
9 August 2023	<0.1	5.1	15.5	1	<1	0.9	<0.1
8 September 2023	<0.1	5.3	15.7	1	1	0.3	<0.1

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F9: Ground Gas Monitoring Results Summary for 3F3523DR (IPS-F)

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Atmospheric Pressure	Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv		
02 April 2024	<0.1	2.4	17.2	0	<10	Not recorded	1015	0
28 May 2024	<0.1	0.9	18.0	0	<10	Not recorded	1010	0
18 June 2024	<0.1	1.6	17.1	0	<10	0	1010	0
17 July 2024	<0.1	2.5	16.3	0	<10	0	1016	0
30 July 2024	<0.1	2.6	16.6	0	<10	0	1012	0

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F10: Ground Gas Monitoring Results Summary for 3F3524DR (IPS-F)

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Atmospheric Pressure	Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv		
28 May 2024	<0.1	4.7	16.0	0	<10	1	1010	-0.3
18 June 2024	<0.1	3.6	18.3	0	<10	0	1010	0
02 July 2024	<0.1	2.3	19.5	0	<10	0	1016	0
30 July 2024	<0.1	3.4	19.0	0	<10	0	1011	0

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F11: Ground Gas Monitoring Results Summary for 3W8553DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
14 May 2024	<0.1	1.5	14.7	0	<10	1.0	0
28 May 2024	<0.1	2.1	14.5	0	<10	1.0	0
18 June 2024	<0.1	4.1	17.8	0	<10	0	0
02 July 2024	<0.1	3.4	19.4	0	<10	Not recorded	0
17 July 2024	<0.1	2.1	19.5	0	<10	0	0

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F12: Ground Gas Monitoring Results Summary for 3W8554DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
14 May 2024	<0.1	<0.1	21.1	0	<10	1.0	0
28 May 2024	<0.1	2.0	15.4	0	<10	1.0	0
18 June 2024	<0.1	2.1	16.9	0	<10	0	0
02 July 2024	<0.1	2.5	18.1	0	<10	Not recorded	0
17 July 2024	<0.1	2.2	18.8	0	<10	0	0

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F13: Ground Gas Monitoring Results Summary for 3W8558SA

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
14 May 2024	<0.1	3.1	10.4	0	<10	1.0	-0.7
28 May 2024	<0.1	3.7	7.8	10	<10	1.0	0.1
18 June 2024	<0.1	2.8	14.7	0	<10	0	-7.2
02 July 2024	<0.1	2.2	16.5	0	<10	Not recorded	-1.5
17 July 2024	<0.1	1.6	18.3	0	<10	<0.1	-0.6

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Table F14: Ground Gas Monitoring Results Summary for 3W8567SA

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH_4 %vol	CO_2 %vol	O_2 %vol	CO ppm	H_2S ppm	VOC ppmv	
14 May 2024	<0.1	0.1	20.9	0	<10	1.0	0
28 May 2024	<0.1	0.6	20.2	10	<10	1.0	-0.3
18 June 2024	<0.1	0.5	19.4	0	<10	<0.1	0
02 July 2024	<0.1	2.3	15.9	0	<10	Not recorded	-6.1
17 July 2024	<0.1	2.9	16.5	0	<10	<0.1	0

Notes:
CH_4 - Methane, CO_2 – Carbon Dioxide, O_2 – Oxygen, CO – Carbon Monoxide, H_2S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
ppmv - Part per Million Volume

Appendix G: Guidance for the Assessment of Land Contamination

Selection of Soil Assessment Criteria Protective of Human Health

Generic Assessment Criteria

To evaluate potential risks to human health receptors, including future Site users, the soil analytical results have been assessed against the following Generic Assessment Criteria (GAC):

- Suitable for Use Values (S4ULs) for commercial land use (Nathanail et al, 2015) adopting a 1% soil organic matter (SOM) value.
- Lead was compared against the Defra Category 4 Screening Level (C4SL) for a commercial end use, (Defra, 2014) because a S4UL for lead has not been published, also adopting a 1% SOM value.
- Cyanide (free) was compared to the Society of Brownfield Risk Assessment (SoBRA) Acute Generic Risk Assessment criteria for assessing risks to human health from contaminants in soil (Society of Brownfield Risk Assessment (SoBRA), 2020) since there are currently no C4SLs or S4Uls for cyanide. The assessment criterion used evaluates potential for acute harm to a child by inhalation of free cyanide. This is a conservative assessment criterion used as generic assessment criteria as allows the criteria to be adjusted if the site-specific conditions are suitable.

The GAC for a Commercial/industrial end-use have been selected as these are considered to be the most appropriate for the protection of construction workers undertaking the development and the Applicantworkers who may undertake maintenance/operational work at these locations. The GAC have been generated assuming short exposure periods over a long timescale.

The GAC have been generated using assumptions regarding soil characteristics. Where the published GAC are dependent upon Soil Organic Matter (SOM), a value of 1% has been used to provide a conservative assessment. Consideration of the default soil properties used to generate the soil GAC for protection of human health is important as these influence the fate, transport and behaviour of contaminants.

- Soil type – the model default is set as Sandy Loam and assumes a dry and relatively porous soil. The default is considered sufficiently similar to the cover/restoration soils which are variably clayey/ sandy.
- pH – pH influences the cation exchange capacity and the portioning behaviour of a chemical between soil and water. The default is pH 7. The ground encountered have been found to have a pH between 7.1 and 9.3.

Selection of Water Assessment Criteria Protective of Human Health

Generic Assessment Criteria

The Site is located over a superficial Secondary A Aquifer (Alluvium / River Terrace Deposits), Secondary Undifferentiated Aquifer (Head deposits) and bedrock of Principal Aquifer (White Chalk Subgroup), London Clay (Unproductive) and Lambeth Group (Secondary A). The Site is also within groundwater SPZ Zone II and within groundwater DWSZ. To evaluate potential risks to human health via ingestion of drinking water from the underlying aquifers, the leachate analysis results (2:1) and groundwater analysis results were assessed against the following GAC:

- UK Drinking Water Standards (DWS).
- In the absence of a TPH threshold within the Water Supply [1](Water Quality) Regs 2021, the value of 10 µg/l as presented within the withdrawn Water Supply (Water Quality) Regs 1989 has been used for reference purposes. These thresholds are considered protective of human health.

Groundwater beneath the Site is under protection for potable abstraction and on this basis an assessment of these aquifers as a drinking water resource has been undertaken.

Selection of Water Assessment Criteria Protective of Aquatic Eco-Systems (Controlled Waters)

Generic Assessment Criteria

To evaluate potential risks to surface water receptors, such as the nearby River Wallington and drain within 100 m of IPS-F, the leachate analysis results (2:1) and groundwater analysis results were assessed against the following GAC:

- Freshwater Environmental Quality Standards (EQS) annual average (AA) concentrations and maximum allowable concentrations (MAC) used where there is no AA. These have only been applied to locations where a surface water receptor has been identified within 250 m.
- In the absence of a EQS for total ammonia the total ammonia as N (i.e., ammoniacal nitrogen as N) standard for rivers in the Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015 has been used; assuming a good status.

When assessing ground condition data and the potential to harm Controlled Waters, the approach presented in Groundwater Protection Policy and Practice (GP3) (Environment Agency, 2023b) has been used.

Bioavailable Environmental Quality Standards (EQS)

Bioavailable Environmental Quality Standards (EQS) have been developed for UK Specific Pollutants copper, zinc and manganese and the EU priority substances lead and nickel. An EQS is the concentration of a chemical in the environment below which there is not expected to be an adverse effect on the specific endpoint being considered, e.g., the protection of aquatic life.

The bioavailability of a metal depends on a number of physico-chemical factors which govern both metal behaviour and the interactions of the toxic forms of the metals with a biological receptor.

The EQS bioavailable corresponds to the bioavailable fraction (BioF) of dissolved metal in a sample, as determined by the physico-chemical characteristics of the water and can be calculated using a biotic ligand model (BLM) or other calculation method. To assess compliance, the bioavailable fraction of dissolved metal can be compared to the EQS bioavailable. However, bioavailable metal is not the same metric as dissolved metal as only a fraction of the dissolved metal will usually be bioavailable.

It is very difficult to measure the bioavailable concentration of a metal directly. Biotic Ligand Models (BLMs) are a predictive tool that can take account of water quality parameters such as pH, and calcium to determine the amount of bioavailable metal present. However, the complexity of the models, the runtime per sample, input data requirements and level of operator skill needed to interpret the model outputs mean that few

[1] DWI (2021) Guidance on The Water Supply (Water Quality) Regulations 2016 (as amended) specific to PFOS and PFOA concentrations in drinking water DWI, January 2021.

regulatory organisations have adopted the full BLMs. The UK has developed simplified Metal Bioavailability Assessment Tool (M-BAT) for copper, zinc, nickel, and manganese.

Geo-environmental laboratory analyses required to generate site-specific Predicted No Effect Concentrations (PNEC) suitable for the protection of the identified receptors has not been undertaken. On this basis, to provide a conservative assessment the results have been compared against the EQS for copper, zinc, manganese, lead and nickel without a correction for bioavailability.

Limit of Detection vs. Generic Assessment Criteria

Where the concentration of a determinand is below the limits of detection and the limits of detection are below the relevant threshold criterion, the concentrations recorded are not considered to present a hazard to human health or controlled waters.

Where the concentration of a determinand is below the limit of detection and the limit of detection is greater than the relevant threshold criterion, ultra-low analysis or further Detailed Quantitative Risk Assessment would be required to robustly conclude that these can be eliminated as a hazard.

Appendix H: Risk Assessment Tables

Table H1: Contaminated Land Risk Assessment for Section F

PSC 5	IPS – F adjacent to Landfill - Albany Farm Landfill (Site Reference FFA2, 10/2) – Section F (2F3504DS and 2F3505DS)					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
2F3504DS and **2F3505DS** advanced at the southwestern boundary of the proposed IPS-F compound adjacent to the boundary with a former inert landfill (PSC 5 – Landfill Albany Farm Landfill) and within 50 m of the DoL. GI locations to investigate ground conditions at the boundary with the former landfill site.	No Made Ground encountered. No soil GAC exceedances. No soil leachate sample analysis completed by the analytical lab. No groundwater samples collected as 2F3504DS well was dry.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Mild	Low Likelihood	Low
		Adjacent land users: Arable Farmland.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Medium	Unlikely	Low
		On Site existing and future infrastructure property (buildings and below ground chambers / receptor pits): IPS-F structures to be confirmed.	Direct contact	Medium	Unlikely	Low
		Surface water bodies/watercourses: Drain or watercourse (a tributary to the River Wallington) approximately 15 m east.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Unlikely	Low
		Groundwater Spetisbury Chalk (Principal Aquifer). Superficial Head deposits encountered in all exploratory locations (Secondary Undifferentiated Aquifer). Within a groundwater Source Protection Zone II and groundwater Drinking Water Safeguard Zone.	Leaching through unsaturated and saturated soil.	Medium	Unlikely	Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	CO_2 exceedances for short and long-term WELs at 2F3504DS. Depleted oxygen. Maximum carbon monoxide concentration of 3ppm detected. CS1 Classification (low risk to IPS-F)	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations / construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		Scheme on Site existing and future property (buildings and below ground chambers / receptor pits): IPS-F structures to be confirmed.	Gas migration / accumulation.	Mild	Low Likelihood	Low

Table H2: Contaminated Land Risk Assessment for Section F

Location	IPS-F (3F3523DR and 3F3524DR)					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
GI locations **3F3523DR** and **3F3524DR** positioned to investigate ground conditions at the proposed IPS-F location. IPS-F location is adjacent to the former inert landfill (PSC 5; Landfill Albany Farm). Boreholes were located approximately 30 and 70 m from the former landfill boundary. Phase 3B/3C locations were not advanced to investigate PSC 5. See risk assessment for PSC 5.	No soil GAC exceedances. No soil leachate sample analysis completed. No groundwater samples collected as wells were dry.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Mild	Low likelihood	Low
		Adjacent land users: Arable Farmland.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Medium	Unlikely	Low
		On Site existing and future infrastructure property (buildings and below ground chambers / receptor pits): IPS-F structures to be confirmed.	Direct contact	Medium	Unlikely	Low
		Surface water bodies/watercourses: Drain or watercourse (a tributary to the River Wallington) approximately 15 m east.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Unlikely	Low
		Groundwater Spetisbury Chalk (Principal Aquifer). Superficial Head deposits encountered in all exploratory locations (Secondary Undifferentiated Aquifer). Within a groundwater Source Protection Zone II and groundwater Drinking Water Safeguard Zone.	Leaching through unsaturated and saturated soil.	Medium	Unlikely	Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	CO_2 exceedances for short and long-term WELs exceeded in GI locations monitored, but ground gases are expected to disperse quickly in an open-air environment. Depleted oxygen. CS1 Classification (low risk to IPS-F)	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations / construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		Scheme on Site existing and future property (buildings and below ground chambers / receptor pits): IPS-F structures to be confirmed.	Gas migration / accumulation.	Mild	Low Likelihood	Low

Table H3: Contaminated Land Risk Assessment for Section F

PSC 1	Works – Crockerhill Former Brickworks – Section F (3W8558SA)					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
Industrial Estate and Former Brickworks. Potential for Made Ground with potential for infill of unknown material, stockpiled material and other waste materials. One exploratory hole location 3W8558SA was advanced within the eastern footprint of PSC that crosses into the Section F DoL.	No soil GAC exceedances. Soil leachate samples collected yielded GAC exceedances for TPH and phenol. One groundwater sample collected yielded TPH exceedance of GAC	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Medium	Low Likelihood	Moderate / Low
		Adjacent land users: Farmland, industrial estate	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Direct contact.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: No surface watercourses within 250 m.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Mild	Low Likelihood	Low
		Groundwater: Superficial deposits is River Terrace Deposits (published geology) (Secondary A Aquifer) encroaching the DoL. Artificial ground recorded approximately 45m west of DoL on western section of Forest Lane. Bedrock geology is Lambeth Group (unproductive strata). Southern section is within a groundwater Source Protection Zone III (total catchment).	Leaching through unsaturated and saturated soil.	Medium	Low Likelihood	Moderate / Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m. Ancient woodland adjacent to DoL and PSC (at closest point).	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). CO_2 exceedances for short and long-term WELs, but ground gases are expected to disperse quickly in an open-air environment. Depleted oxygen levels possible in confined spaces.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Gas migration / accumulation.	Mild	Unlikely	Very Low

Table H4: Contaminated Land Risk Assessment for Section F

PSC 2	Pit - Clay(GI locations 3W8559TP, 3W8563TP and 3W8567SA)					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
Potential for Made Ground with potential for infill of unknown material. Located within the Section F DoL. Exploratory locations 3W8559TP, 3W8563TP and 3W8567SA advanced to investigate PSC.	No soil GAC exceedances. Leachate samples collected yielded TPH exceedance of GAC (withdrawn Water Quality Standards). Groundwater GAC exceedances of the following: ▪ TPH exceeded the 1989 withdrawn Water Quality Standards. ▪ DWS exceedances of chloride, selenium and sulphate.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Medium	Low Likelihood	Moderate / Low
		Adjacent land users: Farmland, closest residential property is approximately 220 m north.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Direct contact.	Mild	Unlikely	Low
		Surface water bodies/watercourses: No surface watercourses within 250 m.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Mild	Low Likelihood	Low
		Groundwater: London Clay Formation (unproductive stratum). No superficial deposits (published geological maps), Head deposits encountered.	Leaching through unsaturated and saturated soil.	Mild	Low Likelihood	Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m. Ancient woodland approximately 15 m south.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	CO_2 exceedances for short and long-term WELs within 3W8567SA. Depleted oxygen levels recorded. Ground gases are expected to disperse quickly in an open-air environment.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Gas migration / accumulation.	Mild	Unlikely	Very Low

Table H5: Contaminated Land Risk Assessment for Section F

PSC 22	Pit –Sand (22); GI location 2F3500DS					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
Potential for Made Ground with potential for infill of unknown material. PSC 22 is located within 50 m buffer of DoL	Made Ground (brick, timber fibres, fragments of metal and rubber) No soil GAC exceedances. Soil leachates not tested for due to lab error during Phase 2 sample analysis (2F3500DS). No groundwater samples collected due to wells being dry.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Mild	Low Likelihood	Low
		Adjacent land users: Farmland,.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Mild	Low Likelihood	Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Direct contact.	Mild	Unlikely	Very Low
		Surface water bodies/watercourses: No surface watercourses within 250 m.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Mild	Low Likelihood	Low
		Groundwater: Portsdown Chalk Formation (Principal Aquifer). Superficial Head deposits. Pit - Chalk within a groundwater Source Protection Zone II and groundwater Drinking Water Safeguard Zone.	Leaching through unsaturated and saturated soil.	Medium	Low Likelihood	Moderate / Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	Ground gas monitoring data collected from 2F3500DS shows that all methane concentrations were below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Gas migration / accumulation.	Mild CH_4 concentrations in 2F3500DS and 2F3501DS are below LEL.	Unlikely No building structures proposed.	Very Low

Table H6: Contaminated Land Risk Assessment for Section F

PSCs 24 and 25	Pit-Chalk (24 and 25), GI locations 2F3501DS (PSC 24), 3W8553DS and 3W8554DS (PSC 25)					
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
Potential for Made Ground with potential for infill of unknown material. PSCs 24 are located within 50 m buffer of DoL . PSC 25 crosses into the DoL..	No Made Ground encountered. No soil GAC exceedances. Soil leachates not tested for due to lab error during Phase 2 sample analysis (2F3501DS). Soil leachate sampling within 3W8553DS yielded TPH exceedances of GAC No groundwater samples collected due to wells being dry.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Mild	Low Likelihood	Low
		Adjacent land users: Farmland.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Mild	Low Likelihood	Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Direct contact.	Mild	Unlikely	Very Low
		Surface water bodies/watercourses: No surface watercourses within 250 m.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Mild	Low Likelihood	Low
		Groundwater: At PSC 24 location, no superficial deposits shown on published geology, superficial deposits encountered comprise alluvial deposits Portsdown Chalk Formation (Principal Aquifer), within a groundwater Source Protection Zone II. At PSC 25 location, no superficial deposits shown on published geology, superficial deposits encountered comprise head deposits. Bedrock Spetisbury Chalk Member (Principal Aquifer), within a groundwater source protection zone II (outer protection).	Leaching through unsaturated and saturated soil.	Medium	Low Likelihood	Moderate / Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	Ground gas monitoring data collected from 2F3501DS 3W8553DS and 3W5554DS show that all methane concentrations were below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate / Low
		On Site existing and future property (buildings and below ground chambers / receptor pits): No building structures as part of scheme at this location.	Gas migration / accumulation.	Mild	Unlikely	Very Low

Table H7: Contaminated Land Risk Assessment for Section F

Trenchless Crossing – River Wallington (2F3502SA and 2F3503SA)						
Potential Source of Contamination	**Potential Contaminants of Concern**	**Potential Receptors**	**Potential Pathways**	**Potential Consequence of Pollutant Linkage**	**Probability of Pollutant Linkage**	**Risk (without mitigation measures)**
Phase 2 Locations, 2F3502SA and 2F3503A, advanced to investigate the trenchless crossing.	No soil GAC exceedances. Leachate testing from nearby Head deposits (2F3503SA 0.5 m bgl). ▪ TPH exceeded the 1989 withdrawn Water Quality Standards. ▪ EQS exceedances of phenol, chromium VI and copper. Four groundwater samples were collected from the boreholes. One exceedance of the TPH WQS was found for TPH, and two exceedances of EQS GAC were detected for zinc in the groundwater of 2F3502SA.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts.	Medium	Low Likelihood	Moderate / Low
		Adjacent land users: Arable Farmland.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling.	Medium	Low likelihood	Moderate / Low
		On Site existing and future infrastructure property (buildings and below ground chambers / receptor pits): No building structures.	Direct contact	Medium	Unlikely	Low
		Surface water bodies/watercourses: River Wallington	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Low likelihood	Moderate / Low
		Groundwater White Chalk Subgroup (Principal Aquifer). Superficial Head deposits and Alluvium encountered in both locations (Secondary Undifferentiated Aquifer and Secondary A Aquifer). Within a groundwater Source Protection Zone II and groundwater Drinking Water Safeguard Zone.	Leaching through unsaturated and saturated soil.	Medium	Low likelihood	Moderate / Low
		Ecological receptors (flora and fauna): No statutory designated areas within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Low Likelihood	Low
	Ground gas - CO_2 exceedances for short and long-term WELs exceeded in bothl GI locations monitored.	**Construction, maintenance workers and future site users:** Construction workers during open cut excavations / construction, maintenance workers during operation.	Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate /Low
		Scheme on Site existing and future property (buildings and below ground chambers / receptor pits): possible below ground chambers.	Gas migration / accumulation.	Medium	Low Likelihood	Moderate / Low

Appendix I: Risk Assessment Methodology

Risk Assessment Methodology

Risk Classification Methodology

The method of risk evaluation adopted in this document is consistent with CIRIA C552 (2001). Hence, risk is considered to be a function of both the probability (likelihood) of contamination occurring at the study site and also the potential severity (consequence) of the environmental impacts associated with this contamination.

The classification system used to define contaminant probability, consequence and risk is described in the following tables.

Table A: Classification of probability

Classification	Definition
High Likelihood	There is a contaminant linkage and an event that appears either very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a contaminant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term, and likely over the long term.
Low Likelihood	There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.

Table B: Classification of consequence

Classification	Receptor	Definition	Examples
Severe	Humans	Short-term (acute) risk to human health likely to result in "significant harm" as defined in the Environmental Protection Act 1990, Part 2a.	High concentrations of cyanide on the surface of an informal recreation area
	Controlled waters	Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource	Major spillage of contaminants from site into controlled water
	Property	Catastrophic damage to buildings/property	Explosion, causing building collapse (can also equate to an acute human health risk if buildings are occupied)
	Ecology	A short-term risk to a particular ecosystem, or organism forming part of such eco-system	Potentially long term derogation of a designated site or protected species
Medium	Humans	Chronic damage to human health ("significant harm" as defined in the Environmental Protection Act 1990, Part 2a.)	Concentrations of a contaminant from a residential site exceed the site-specific assessment criteria
	Controlled waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution)	Leaching of contaminants from a site to a principal or secondary aquifer
	Property	Significant damage to crops, buildings, structures and services	Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
	Ecology	A significant change in a particular ecosystem	Death of a species within a designated nature reserve
Mild	Humans	Contamination present although unlikely to constitute a significant chronic health risk	Concentrations of a contaminant from a public access site moderately exceed the generic assessment criteria
	Controlled waters	Pollution of non-water resources	Pollution of non-classified groundwater
	Property	Damage to sensitive. buildings/structures/services	Aggressive ground conditions leading to potential for long term degradation of buried concrete
	Ecology	Damage to the environment	Localised damage to aquatic habitat causing temporary relocation of certain species
Minor	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.)	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Controlled waters	Potential minor release of contamination to local water features	Short term or low volume release of potentially polluting material to a secondary surface water course of low existing quality
	Property	Easily reparable effects of damage to buildings, structures and services. Harm which may result in a financial loss, or expenditure to resolve.	The loss of plants in a landscaping scheme. Discolouration of concrete
	Ecology	Short term, localised damage may occur; consequences are spatially and temporally limited	Short term or localised disruption to in situ flora or fauna; no lasting effects

Table C: Risk classification (comparison of consequence and probability)

Probability (likelihood)		Consequence (severity)			
		Severe	***Medium***	***Mild***	***Minor***
	High likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

Appendix J: WFL Phase 3C EM Geophysical Survey Report

WFL Phase 3C EM

FACTUAL REPORT ON GEOPHYSICAL SURVEY

Report No L3067-23-Phase 3C-EM-R0

April 2024

Revision No R0

Carried out for:

Clancy

Report No L3067-23-Phase3C-EM-L3067-23-Phase 3C-EM-R0

ISSUE No DATE	STATUS	PREPARED BY	CHECKED BY	APPROVED BY
Rev0 April 2024	Final report	[redacted]		

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SOCOTEC UK Limited was formerly known as Environmental Scientifics Group Limited. The Certificate of Incorporation on Change of Name was filed on 16 October 2017.

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1 EXECUTIVE SUMMARY

In April 2024, SOCOTEC mobilised to the Water For Life (WFL) site to carry out an Electromagnetic survey. The survey was required to determine the presence of shallow voids, anomalies, and dissolution features, providing a basis for follow on Electrical Resistivity Tomography (ERT) surveys.

SURVEY AIMS	• Map variations in the Electromagnetic Conductivity and Magnetic Susceptibility of the subsurface
SURVEY OBJECTIVES	• Undertake an Electromagnetic (EM) Survey • Process the datasets to map variations in the subsurface • Produce AutoCAD drawings highlighting results • Produce a geophysical report highlighting findings
GEOPHYSICAL TECHNIQUES USED	• Frequency Domain Electromagnetic Survey
GEOPHYSICAL INVESTIGATION FINDINGS	Ground conductivity values ranging from ~0–60mS/m and magnetic susceptibility values ranging from ~8-34. Two anomalies were noted. A large anomaly in the northwest of the survey area, comprising relatively high EM conductivity values of ~20.8-60.9mS/m and relatively low magnetic susceptibility values of ~8.2-30.9. A further anomaly located in the southeast of the survey area, comprising relatively low conductivity values (when compared to the surrounding area) of ~5.4-10.1mS/m.
RECOMMENDATIONS	It is recommended that geophysical anomalies are targeted intrusively for verification.

2 INTRODUCTION

SOCOTEC UK Limited (SOCOTEC) was commissioned in April 2024 by Clancy to carry out a geophysical investigation at the IPS-B land parcel. The aim of the survey was to determine the presence of shallow voids, anomalies, and dissolution features, providing a basis for follow on Electrical Resistivity Tomography (ERT) surveys. To meet the survey objectives an Electromagnetic (EM) survey was undertaken over the investigation area.

2.1 SITE SETTING

The site is centred on National Grid Reference SU 58211 09024. A map of the survey area is presented in **Figure A1, Appendix A.** Photos taken from site are presented in **Figure A2, Appendix A.**



Figure 1: *Aerial image showing the site location in context with regional surroundings.*

3 GEOPHYSICAL METHODS AND SPECIFICATION

3.1 Electromagnetic Conductivity Mapping Theory

Electromagnetic mapping operates via the frequency-domain method, whereby, a sinusoidally varying current of a specific frequency is used to generate secondary electromagnetic fields via induction. Measurements are taken by passing an alternating (AC) current through the transmitter coil. This causes a primary electromagnetic (EM) field to pass from transmitter to receiver, both above and below the surface of the ground. When the sub-surface is homogeneous, there is no difference in either of these fields apart from a slight decrease in the amplitude of the sub-surface field. However, if the sub-surface material changes sufficiently in conductivity values (i.e. the presence of concrete, reinforcement, rock head, mine caps, voiding etc.), the magnetic component of the penetrating field induces an AC or eddy current to flow in the conductor. These eddy currents generate their own secondary EM field which travels to the receiver. The receiver responds to the resultant of the arriving primary and secondary fields, so that the response differs in both phase and amplitude from the response of the primary field alone. Both Quadrature (the out of phase component of the electromagnetic wave) and In-Phase (the in-phase component) data are collected simultaneously, corresponding to Electromagnetic Conductivity and Magnetic Susceptibility respectively. Electromagnetic Conductivity is measured in either Siemens per metre (S/m) or Millisiemens per metre (mS/m), with Magnetic Susceptibility being a unitless quantity.

The presence of a sub-surface change in material would be detected by a variation in the ground conductivity reading from that of the surrounding area. In operation, the instrument is held parallel to the ground surface in the vertical coplanar mode and readings of apparent conductivity are taken along the survey traverse lines at the required sampling points. It is important to note that the effective survey depth of the GEM-2 is ~6m, however, in conductive materials this depth can be reduced. Due to this, it is not possible to give an absolute depth for the data values recovered and conductivity maps should be considered in context with other data.

3.2 Application to Site

On site it is anticipated that any voiding/dissolution features would manifest as either relative high or low electromagnetic conductivity and magnetic susceptibility anomalies. A water filled void would likely manifest in the data as a relative increase in electromagnetic conductivity and relative low in magnetic

susceptibility values. An air filled would likely manifest as a relative low in both electromagnetic conductivity and magnetic susceptibility values. Frequencies of 5325Hz and 18325Hz were chosen to optimise depth and resolution of data acquired.

4 FIELDWORK

4.1 Fieldwork Activities

On the 08th of April the survey team mobilised from the Deeside SOCOTEC offices and travelled to the WFL site. Survey works were undertaken from the 09th-10th of April between the hours of 08:00-16:00. On completion of site works, the survey team demobilised from site and travelled back to the Deeside SOCOTEC office.

The following Equipment was used to complete the scope of works.

TABLE 1 SUMMARY OF SURVEY EQUIPMENT

PORTION OF SURVEY	TYPE OF EQUIPMENT	ITEM OF EQUIPMENT
Surface Positioning	dGPS	Juniper Systems Geode GNS2
Geophysical survey	Ground Conductivity Meter	Geophex GEM-2 and Ulefone data logger.
Other		Laptop computers, Safety equipment, PPE.

Technical Information on the equipment used for the survey can be found in **Appendix C**.

4.2 Fieldwork Observations

On site it was noted that the survey area was sloped in a SSW-NNE orientation, and is likely to produce a slight variation in data acquired.

Site photos are presented in **Figure A2, Appendix A**.

4.3 Positioning

A Juniper systems Geode GNS2 differential GPS was used to stream in the real time positions of each data point during data acquisition.

4.4 Electromagnetic Conductivity Mapping Methodology

A Geophex GEM-2 ground conductivity meter was utilised to collect data in the vertical (horizontal coplanar orientated coils) and horizontal (vertical coplanar orientated coils) mode to cover the survey area. Prior to data collection, the GEM-2 was left to 'warm up' and was nulled in an area of the site deemed to be free from both the target and any ferromagnetic materials, with base station readings acquired at the start and end of each shift to determine any diurnal variations in the data. The survey lines were collected at 2 metre intervals to ensure sufficient data sampling over the target location.

5 PROCESSING

5.1 Electromagnetic Conductivity Mapping Processing Steps

The data were downloaded from the GEM-2 data logger and loaded into the GEM-2 Exporter software for data conversion from Quadrature and In-Phase to Electromagnetic Conductivity and Magnetic Susceptibility. Results were then converted from Siemens to Millisiemens per meter. The converted data was then imported into Oasis Montaj software to be processed. The data was gridded and the coordinate system converted from UTM 30-N to OSGB36. The data was inspected by an experienced geophysicist for any positional dropouts or spikes in the data.

6 RESULTS

6.1 Electromagnetic Conductivity Mapping Results

The Electromagnetic Conductivity and Magnetic Susceptibility maps are presented in **Drawing L3067-23-Phase 3C-EM-RO/01, Appendix B.** The site is broadly characterised by conductivity values between ~0-60.9mS/m and magnetic susceptibility values between ~8.2-34.3. A general trend of increasing conductivity can be seen from west to east, corresponding with the northeastern aspect of

the slope and its lowest point (with the lowest topographic point being the most eastern part of the survey area).

Two anomalies were identified within the data, having distinctly varied values compared to the surrounding areas and data trends. A large anomaly in the northwest of the survey area, comprising relatively high EM conductivity values of ~20.8-60.9mS/m and relatively low magnetic susceptibility values of ~8.2-30.9. A further anomaly located in the southeast of the survey area, comprising relatively low conductivity values (when compared to the surrounding area) of ~5.4-10.1mS/m.

It is worth noting that the horizontal mode (vertical coplanar coil orientation) data provided less detail than the vertical mode, being more susceptible to the change in slope and as such is not presented.

6.2 Quality and Accuracy

The data was deemed to be of good quality despite the 'striping', comprising relatively small changes in conductivity and being most prevalent in the magnetic susceptibility datasets. The 'striping' comprises small variations in electromagnetic conductivity and magnetic susceptibility resulting from variation in the transmitter-receiver geometry relative to the ground surface.

7 CONCLUSIONS AND RECOMMENDATIONS

It is recommended that the anomalies identified are targeted for further geophysical and intrusive testing for further quantification.

8 SAFETY

All SOCOTEC staff members were briefed on the project requirements by the project leader. SOCOTEC staff members were inducted by the Client before any works commenced. Upon receipt of a daily toolbox talk, SOCOTEC staff members were briefed on the tasks to be undertaken on each shift.

All operations and procedures on site during the survey adhered to SOCOTEC Surveys method statement and control measures put in place as a result of carrying out a risk assessment. This can

be found in SOCOTEC document number L3067-23 WFL Phase 3C EM Risk Assessment and Method Statement.

9 REFERENCES

John M. Reynolds, An introduction to Applied and Environmental Geophysics, John Wiley and Sons, ISBN 0-471-96802-1

APPENDIX A
FIGURES

Site Location Plan A1
Site Photos A2

Site Location Plan

National Grid Reference: SU 58211 09024.



Figure 1 – *Aerial image showing site location in context with regional surroundings.*

Notes:	Project WFL Phase 3C EM Project No. L3067-23 Carried out for Clancy	Figure **A1**

Site Photographs

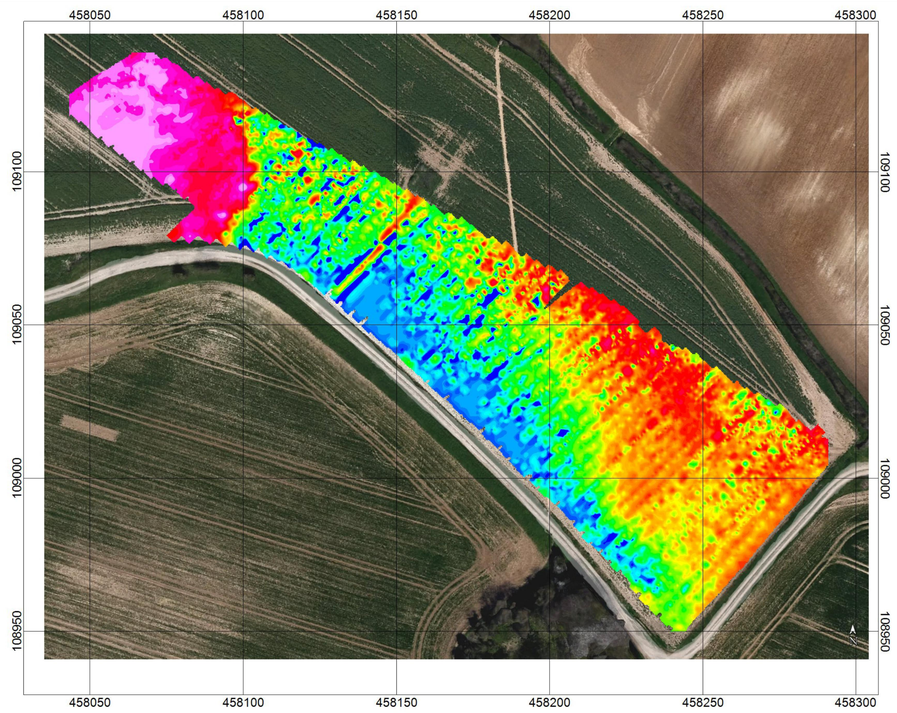


Figure 1 *– Site photo showing SOCOTEC Operative conducting the EM survey.*

Notes:	Project Project No. Carried out for	WFL Phase 3C EM L3067-23 Clancy	Figure A2

APPENDIX B
DRAWINGS

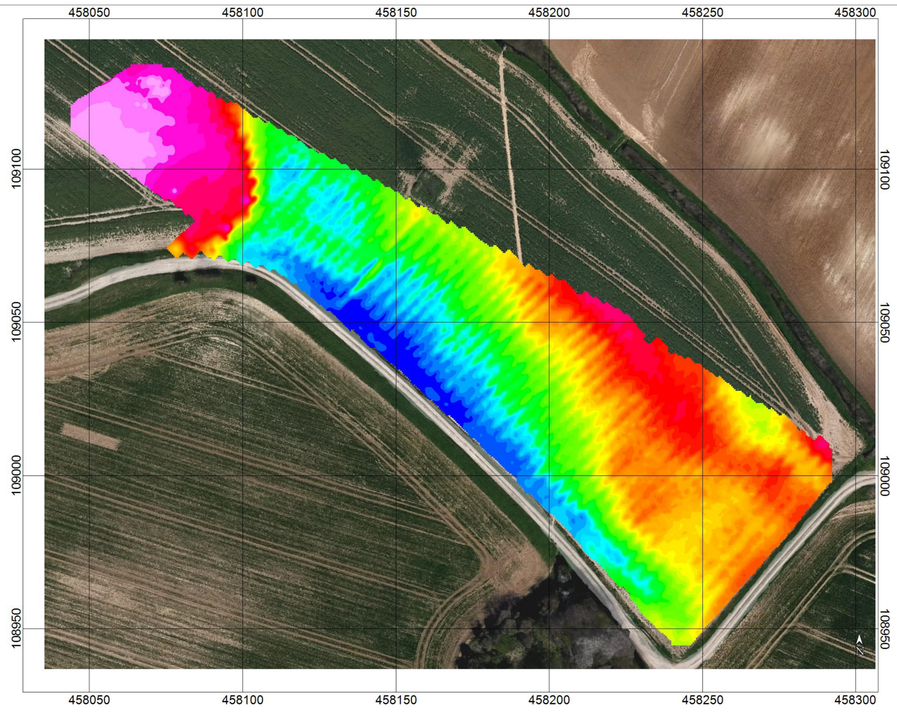
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WFL Phase 3C EM	L3067-23-Phase 3C-EM-R0/01



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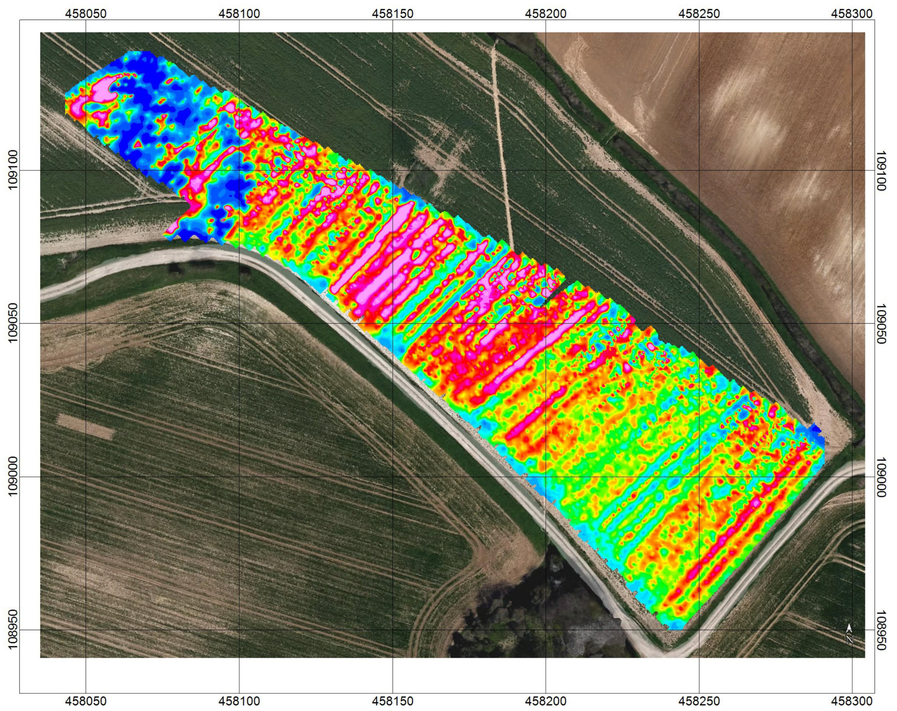
Electromagnetic Conductivity mS/m



EC_18325Hz

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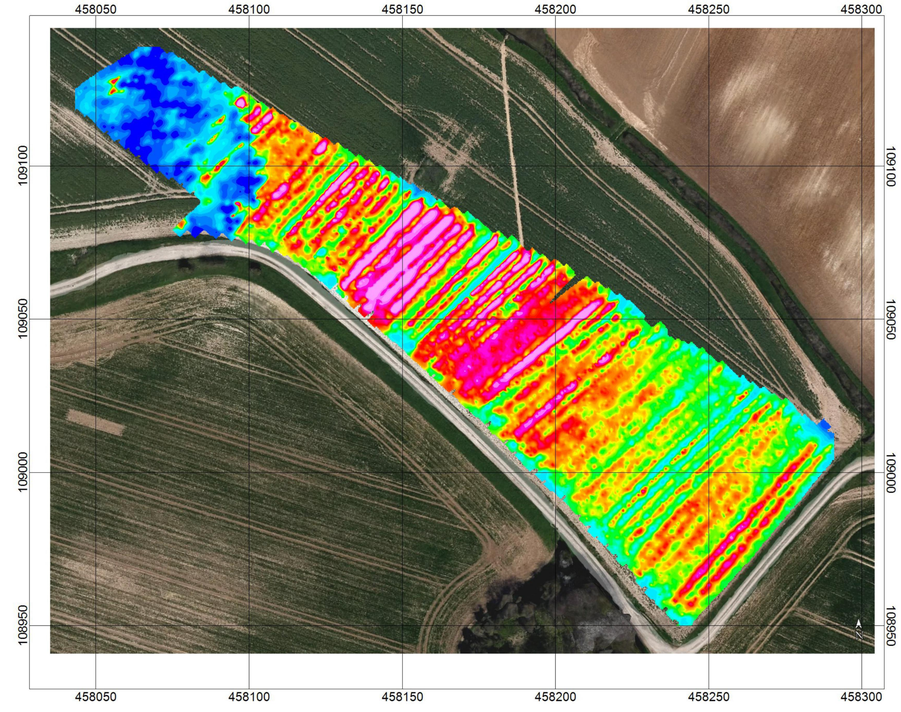
Electromagnetic Conductivity (mS/m)



MS_5325Hz

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Magnetic Susceptibility



MS_18325Hz

-1.6 12.9 17.3 19.9 20.4 20.7 20.9 21.1 21.3 21.4 21.5 21.7 21.8 21.9 22.1 22.3 22.6 22.9 23.6

Magnetic Susceptibility

Notes:

1) Co-ordinate System: OS National Grid (OSGB1936).

Scale: 1:1000

0 10m 20m 40m 60m 80m

Rev.	Date	Changes	Checked	Approved	Details
0	April 24	-	LP	DK	Final

Survey Date:	Surveyors:	Drawn By:
09/04/24 - 10/04/24	HM, TL	HM

Client: Clancy

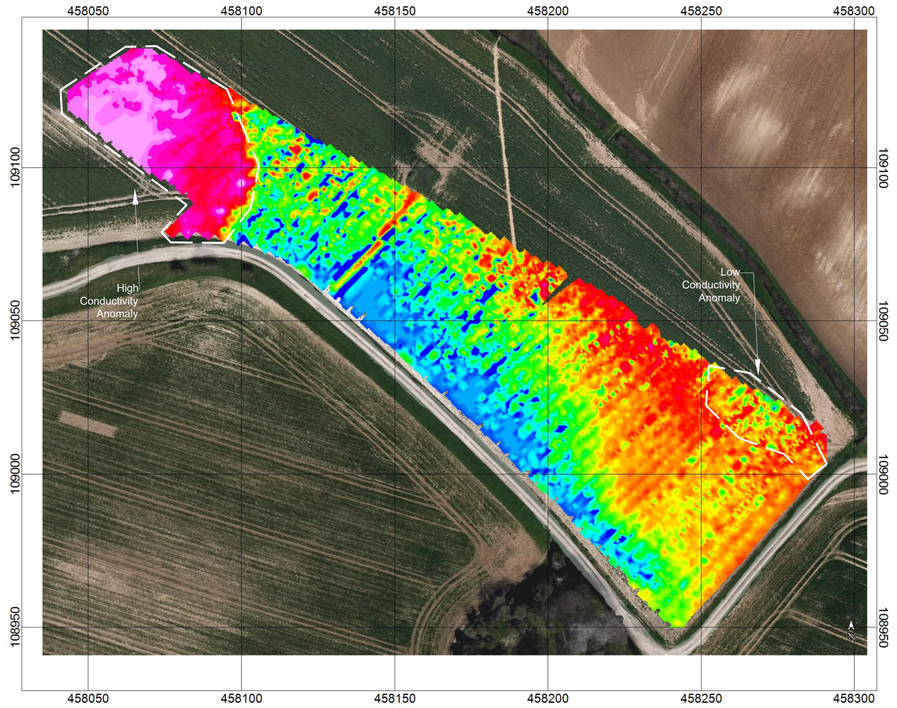
Contractor: SOCOTEC

Geotechnical House
18 - 19 Drome Road
Deeside Industrial Park, Deeside, Flintshire
CH5 2NY, United Kingdom
www.socotec.co.uk
surveys-geophysics@socotec.com
Tel: +44(0)1244 288200

Project: WFL Phase 3C

DWG: WFL Phase 3C
L3067-23/01

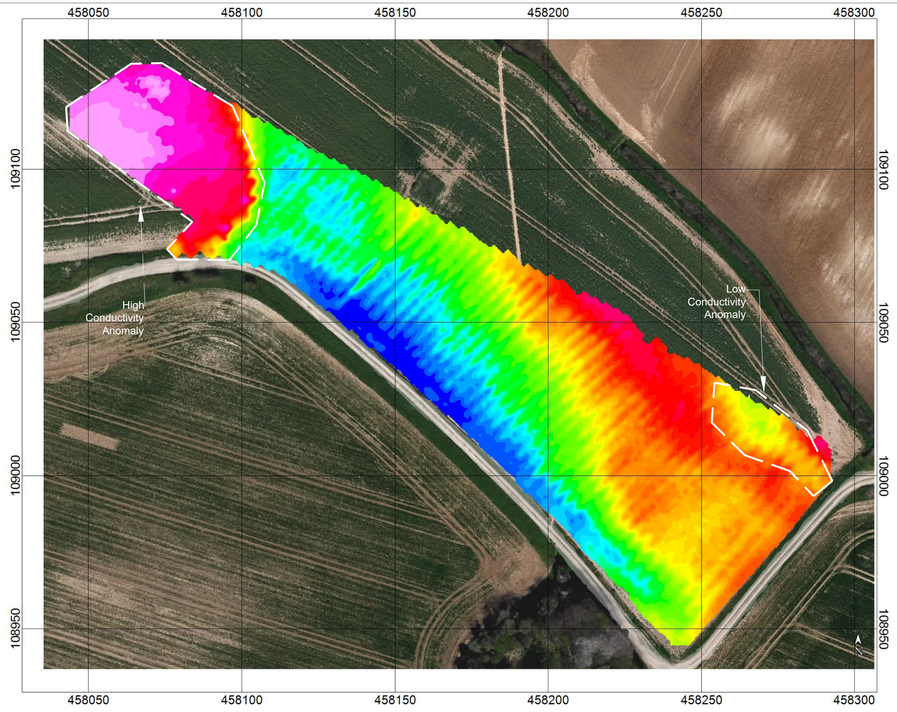
Original Sheet Size:	Scale:	Rev.:
A1	1:1000	0



EC_5325Hz

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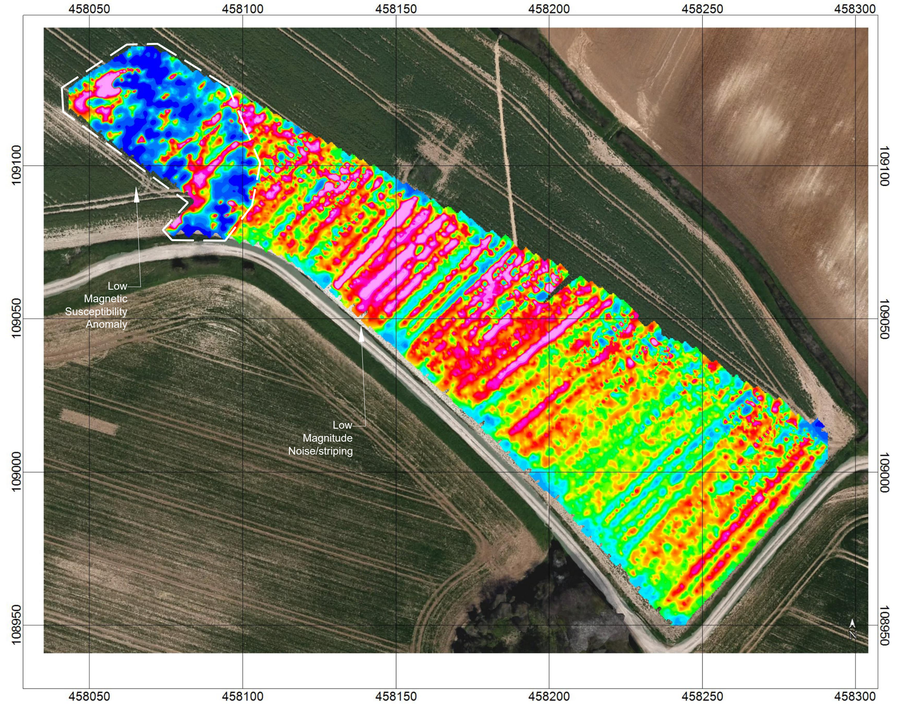
Electromagnetic Conductivity mS/m



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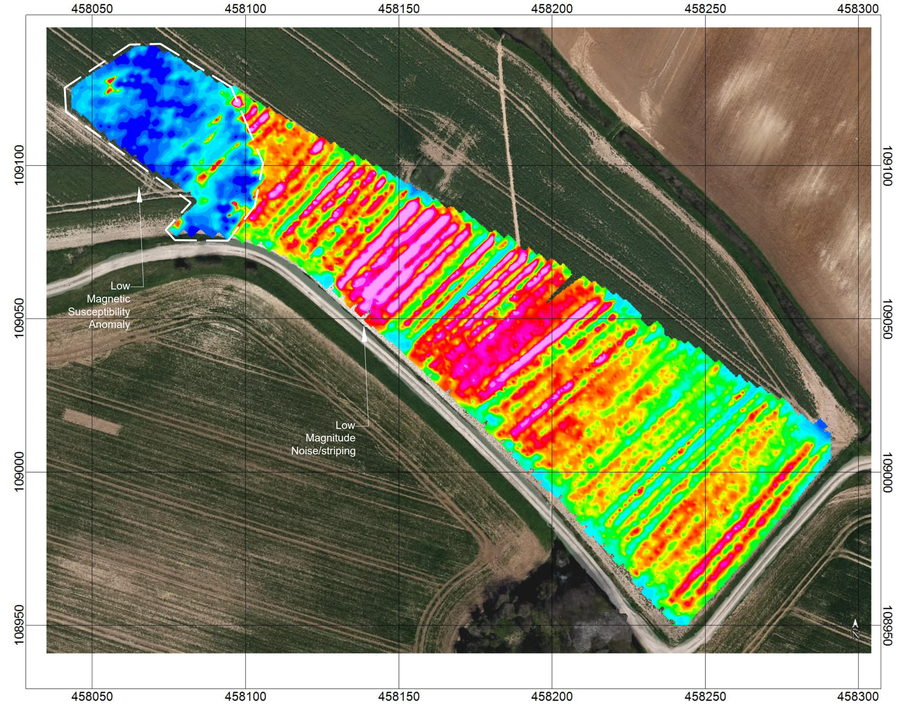
Electromagnetic Conductivity (mS/m)



MS_5325Hz

-1.9 27.7 30.2 30.8 31.1 31.4 31.6 31.7 31.9 32.0 32.1 32.3 32.4 32.6 32.7 33.0 33.2 33.6 34.3

Magnetic Susceptibility



MS_18325Hz

-1.6 12.9 17.3 19.9 20.4 20.7 20.9 21.1 21.3 21.4 21.5 21.7 21.8 21.9 22.1 22.3 22.6 22.9 23.6

Magnetic Susceptibility

Notes:

1) Co-ordinate System: OS National Grid (OSGB1936).

Scale: 1:1000

0 10m 20m 40m 60m 80m

Rev.	Date	Changes	Checked	Approved	Details
0	April 24	-	LP	DK	Final

Survey Date:	Surveyors:	Drawn By:
09/04/24 - 10/04/24	HM, TL	HM

Client: Clancy

Contractor: SOCOTEC

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Tel: +44(0)1244 288200

Project: WFL Phase 3C

DWG: WFL Phase 3C
L3067-23/02

Original Sheet Size:	Scale:	Rev.:
A1	1:1000	0

APPENDIX C
TECHNICAL SPECIFICATIONS

Geophex GEM-2

Juniper Systems Geode GNS2 dGPS

Technical Information

GEM-2 Electromagnetic Sensor



Features

- A handheld, digital, programmable, broadband electromagnetic sensor
- The finest electromagnetic geophysical sensor for geological, environmental, and geotechnical surveys because of combining cutting-edge technology with simplicity of use
- The GEM-2 package consists of the sensor boom (ski), that contains all the sensing elements an electronics console with a removable battery that plugs into the ski, a detachable PDA as the user interface and a display, and shoulder strap.

Technical Specifications
Programmable operation:

- Bandwidth: 300 Hz to 96 kHz
- Frequency Domain: Single frequency or Multiple frequencies
- Sampling rate selectable: 30 Hz or 25 Hz
- Ski: Fiberglass foam 2kg, L 183cm, W 12.5cm, coil configuration: coplanar
- Maximum TX moment: 3 Amp m2 at 330 Hz
- Rechargeable battery: 12 VDC
- Output: In phase and Quadrature in ppm at each frequency Apparent conductivity and Magnetic susceptibility Powerline amplitude
- Realtime GPS input for navigation
- Remote operation options
- User interface and data logger: Socket PDA
- Communication: Bluetooth with the PDA and Computer or RS232
- The GEM-2 is suitable for investigations in: Shallow geology; Groundwater; Geotechnical Engineering; Soil Science; Archaeology; Environmental Contaminations; Underground facilities; Continuous EMI Spectrum



GET REAL-TIME, SUB-METER ACCURACY

SUB-METER GPS RECEIVER

Looking for a simple sub-meter GNSS solution at an affordable price? With the Geode, you can easily collect real-time, sub-meter GNSS data without the huge price tag or complexity of other precision receivers. Designed with versatility in mind, the Geode works with iPhone and iPad as well as a wide range of Windows®, Windows Mobile, and Android™ devices and is especially useful for bring-your-own-device workplaces. Take the Geode with you mounted on a pole, in a pack, or held in your hand to collect real-time sub-meter GNSS data in harsh environments, using almost any handheld device.

- **SUB-METER ACCURACY** – Collect precision GNSS data with an existing device
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- **AFFORDABLE** – Professional accuracy at a budget-friendly price
- **COMPACT SIZE** – Small and lightweight for all-day use
- **OPEN INTERFACE** – Works with Juniper Systems' handhelds or your own device
- **SIMPLE TO USE** – Intuitive and easy operation, one-button simplicity
- **ALL-DAY BATTERY LIFE** – Ideal for long work days

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geode™

Made for iPhone | iPad

GEODE GNS2 COMPATIBILITY
- iPhone 11 Pro Max, iPhone 11 Pro, iPhone 11, iPhone XS, iPhone XS Max, iPhone XR, iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPod Touch (7th Generation), iPad Mini (5th Generation), iPad (7th Generation), iPad Pro 11-inch, iPad (6th Generation), iPad Pro 10.5 inch, iPad Pro 12.9 inch (1st, 2nd, and 3rd Generation.)
- Windows® PC (8/10)
- Windows® Embedded Handheld 6.5
- Android™ 4.x and above
- GeodeConnect™ software provides configuration, communications setup, and receiver settings

RECEIVER
- Receiver Type: GNSS single frequency with carrier phase tracking
- Signals Received: GPS, SBAS, GLONASS, BeiDou, GALILEO and QZSS [1]
- Channels: 162
- SBAS Tracking: 3-channel parallel tracking
- Update Rate: 1 Hz standard, 2–10 Hz (optional)

ACCURACY
- SBAS (WAAS): <30 cm Horizontal RMS (<60 cm 2DRMS) [2]
- Cold Start: <60 sec typical (no almanac)
- Reacquisition: <1 sec

COMMUNICATIONS
- Bluetooth® 4.1 SPP, iAP2, EAP
- Bluetooth Range: Class 1 Long Range
- Ports: Micro USB Client 2.0; Serial RS232C DB-9 (optional)
- Serial Baud Rates: 4800–115200

RECEIVER PROTOCOLS
- Data I/O Protocol: NMEA 0183, Crescent Raw Binary (proprietary)
- Correction I/O Protocol: Hemisphere GNSS Proprietary, ROX, RTCM v2.3, RTCM v3.2, CMR, CMR+
- Other: 1PPS Timing Output, Speed Pulse, Event Marker Input (optional)

POWER
- Input Voltage: 5VDC @ 2A USB
- Power Consumption: 1.7–2 W nominal
- Overtime Technology™ Battery: 3.6V 6000 mAh Li-ion (10 hours)
- Charging Time: Less than 4 hours

ANTENNA
- Internal precision Multi-GNSS with integrated ground plane
- External Antenna Port: MCX type, 50 ohm 15VDC @ 20 mA maximum

JUNIPER RUGGED™
- Operating Temp: -20 C to +60 C
- Storage Temp: -30 C to +60 C
- Meets or Exceeds MIL-STD 810G (Drop, Vibration, Temperature, Ingress Protection)
- Enclosure Rating: IP68
- Dimensions: 4.4 x 4.4 x 1.7 inch (111 x 111 x 43 mm)
- Weight: 0.8 lb (360 g)
- Mount: ¼ x 20 camera stud and #6-32 AMPS

RECEIVER UPGRADES
- 2 Hz to 10 Hz update rate
- Multi-GNSS upgrade

INCLUDED ACCESSORIES
- 5VDC USB Universal Charger
- USB Data/Charging Cable (USB-A to Micro-B)
- 5/8 x 11 Pole Mount Adapter

CONFIGURATIONS
- Geode GNS2 GPS, 1 Hz
- Geode GNS2 Multi-GNSS, 1 Hz
- Geode GNS2 Multi-GNSS, with 9-pin serial port, 1 Hz
- Geode GNS2 Multi-GNSS, 10Hz
- Geode GNS2 Multi-GNSS, 10Hz with 9-pin Port



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1. Signals used dependent on model configuration
2. GNSS accuracy subject to observation conditions, multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.

JUNIPER® SYSTEMS

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SLC, UT 84120
Phone: 800.821.0672
Email: info@monsenengineering.com

MONSEN ENGINEERING

Appendix K: IPS-F Bearing Resistance

FOUNDATION ANALYSIS

In accordance with EN1997-1:2004 + A1:2013 incorporating corrigendum February 2009 and the UK National Annex incorporating corrigendum No.1

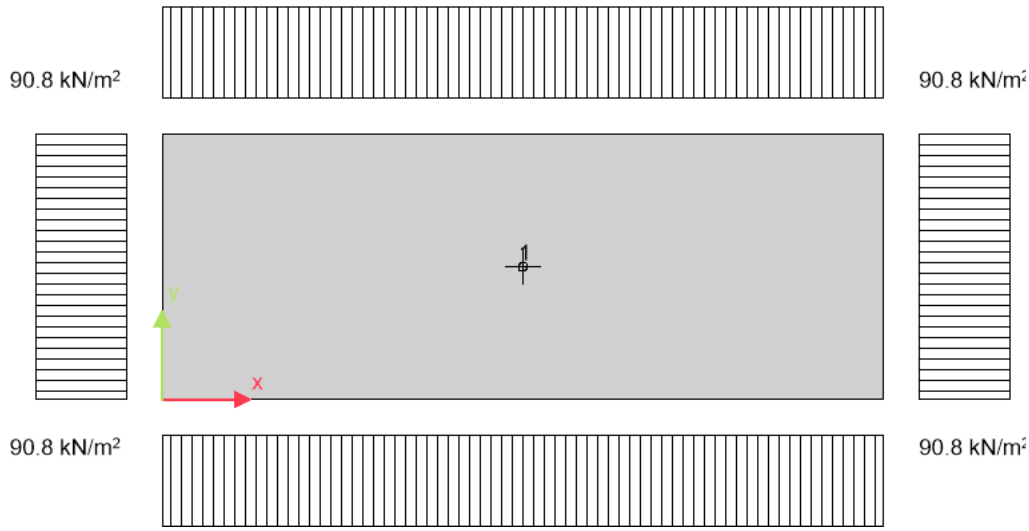
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Summary table

Description	Unit	Allowable	Actual	Utilisation	Result
Base pressure	kN/m²	1337.2	90.8	0.068	Pass

Pad foundation details

Length of foundation	L_x = **30000** mm
Width of foundation	L_y = **11000** mm
Foundation area	$A = L_x \times L_y$ = **330.000** m²
Depth of foundation	h = **600** mm
Depth of soil over foundation	h_{soil} = **600** mm
Level of water	h_{water} = **0** mm
Density of water	γ_{water} = **9.8** kN/m³
Density of concrete	γ_{conc} = **25.0** kN/m³



Column no.1 details

Length of column	l_{x1} = **300** mm
Width of column	l_{y1} = **300** mm
position in x-direction	x_1 = **15000** mm
position in y-direction	y_1 = **5500** mm

Soil properties

Density of soil	γ_{soil} = **18.0** kN/m³
Characteristic cohesion	c'_k = **0** kN/m²
Characteristic effective shear resistance angle	ϕ'_k = **32** deg
Characteristic friction angle	δ_k = **32** deg

Foundation loads

Permanent surcharge load	F_{Gsur} = **65.0** kN/m²

Self weight	$F_{swt} = h \times \gamma_{conc} =$ **15.0** kN/m²
Soil weight	$F_{soil} = h_{soil} \times \gamma_{soil} =$ **10.8** kN/m²

Column no.1 loads

Permanent axial load	$F_{Gz1} =$ **0.1** kN

Design approach 1

Partial factors on actions - Combination1

Partial factor set	A1
Permanent unfavourable action - Table A.3	$\gamma_G =$ **1.35**
Permanent favourable action - Table A.3	$\gamma_{Gf} =$ **1.00**
Variable unfavourable action - Table A.3	$\gamma_Q =$ **1.50**
Variable favourable action - Table A.3	$\gamma_{Qf} =$ **0.00**

Partial factors for soil parameters - Combination1

Soil factor set	M1
Angle of shearing resistance - Table A.4	$\gamma_{\phi'} =$ **1.00**
Effective cohesion - Table A.4	$\gamma_{c'} =$ **1.00**
Weight density - Table A.4	$\gamma_\gamma =$ **1.00**

Partial factors for spread foundations - Combination1

Resistance factor set	R1
Bearing - Table A.5	$\gamma_{R.v} =$ **1.00**
Sliding - Table A.5	$\gamma_{R.h} =$ **1.00**

Bearing resistance (Section 6.5.2)

Forces on foundation

Force in z-direction	$F_{dz} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) + F_{Gz1}) =$ **40451.5** kN

Moments on foundation

Moment in x-direction	$M_{dx} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_x / 2 + F_{Gz1} \times x_1) =$ **606773.0** kNm
Moment in y-direction	$M_{dy} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_y / 2 + F_{Gz1} \times y_1) =$ **222483.4** kNm

Eccentricity of base reaction

Eccentricity of base reaction in x-direction	$e_x = M_{dx} / F_{dz} - L_x / 2 =$ **0** mm
Eccentricity of base reaction in y-direction	$e_y = M_{dy} / F_{dz} - L_y / 2 =$ **0** mm

Effective area of base

Effective length	$L'_x = L_x - 2 \times e_x =$ **30000** mm
Effective width	$L'_y = L_y - 2 \times e_y =$ **11000** mm
Effective area	$A' = L'_x \times L'_y =$ **330.000** m²

Pad base pressure

Design base pressure	$f_{dz} = F_{dz} / A' =$ **122.6** kN/m²

Ultimate bearing capacity under drained conditions (Annex D.4)

Design angle of shearing resistance	$\phi'_d = \text{atan}(\tan(\phi'_k) / \gamma_{\phi'}) =$ **32.000** deg
Design effective cohesion	$c'_d = c'_k / \gamma_{c'} =$ **0.000** kN/m²
Effective overburden pressure	$q = (h + h_{soil}) \times \gamma_{soil} - h_{water} \times \gamma_{water} =$ **21.600** kN/m²
Design effective overburden pressure	$q' = q / \gamma_\gamma =$ **21.600** kN/m²
Bearing resistance factors	$N_q = \text{Exp}(\pi \times \tan(\phi'_d)) \times (\tan(45 \text{ deg} + \phi'_d / 2))^2 =$ **23.177**
	$N_c = (N_q - 1) \times \cot(\phi'_d) =$ **35.490**
	$N_\gamma = 2 \times (N_q - 1) \times \tan(\phi'_d) =$ **27.715**

Foundation shape factors	$s_q = 1 + (L'_y / L'_x) \times \sin(\phi'_d) =$ **1.194**
	$s_\gamma = 1 - 0.3 \times (L'_y / L'_x) =$ **0.890**
	$s_c = (s_q \times N_q - 1) / (N_q - 1) =$ **1.203**
Load inclination factors	H = **0.0** kN
	$m_y = [2 + (L'_y / L'_x)] / [1 + (L'_y / L'_x)] =$ **1.732**
	$m_x = [2 + (L'_x / L'_y)] / [1 + (L'_x / L'_y)] =$ **1.268**
	m = $m_x =$ **1.268**
	$i_q = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^m =$ **1.000**
	$i_\gamma = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^{m+1} =$ **1.000**
	$i_c = i_q - (1 - i_q) / (N_c \times \tan(\phi'_d)) =$ **1.000**
Ultimate bearing capacity	$n_f = c'_d \times N_c \times s_c \times i_c + q' \times N_q \times s_q \times i_q + 0.5 \times \gamma_{soil} \times L'_y \times N_\gamma \times s_\gamma \times i_\gamma =$ **3039.9** kN/m²
	PASS - Ultimate bearing capacity exceeds design base pressure

Design approach 1

Partial factors on actions - Combination2

Partial factor set	A2
Permanent unfavourable action - Table A.3	$\gamma_G =$ **1.00**
Permanent favourable action - Table A.3	$\gamma_{Gf} =$ **1.00**
Variable unfavourable action - Table A.3	$\gamma_Q =$ **1.30**
Variable favourable action - Table A.3	$\gamma_{Qf} =$ **0.00**

Partial factors for soil parameters - Combination2

Soil factor set	M2
Angle of shearing resistance - Table A.4	$\gamma_{\phi'} =$ **1.25**
Effective cohesion - Table A.4	$\gamma_{c'} =$ **1.25**
Weight density - Table A.4	$\gamma_\gamma =$ **1.00**

Partial factors for spread foundations - Combination2

Resistance factor set	R1
Bearing - Table A.5	$\gamma_{R.v} =$ **1.00**
Sliding - Table A.5	$\gamma_{R.h} =$ **1.00**

Bearing resistance (Section 6.5.2)

Forces on foundation

Force in z-direction	$F_{dz} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) + F_{Gz1}) =$ **29964.1** kN

Moments on foundation

Moment in x-direction	$M_{dx} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_x / 2 + F_{Gz1} \times x_1) =$ **449461.5** kNm
Moment in y-direction	$M_{dy} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_y / 2 + F_{Gz1} \times y_1) =$ **164802.6** kNm

Eccentricity of base reaction

Eccentricity of base reaction in x-direction	$e_x = M_{dx} / F_{dz} - L_x / 2 =$ **0** mm
Eccentricity of base reaction in y-direction	$e_y = M_{dy} / F_{dz} - L_y / 2 =$ **0** mm

Effective area of base

Effective length	$L'_x = L_x - 2 \times e_x =$ **30000** mm
Effective width	$L'_y = L_y - 2 \times e_y =$ **11000** mm
Effective area	$A' = L'_x \times L'_y =$ **330.000** m²

Pad base pressure

Design base pressure $f_{dz} = F_{dz} / A' = \mathbf{90.8}$ kN/m^2

Ultimate bearing capacity under drained conditions (Annex D.4)

Design angle of shearing resistance $\phi'_d = \text{atan}(\tan(\phi'_k) / \gamma_{\phi'}) = \mathbf{26.560}$ deg

Design effective cohesion $c'_d = c'_k / \gamma_{c'} = \mathbf{0.000}$ kN/m^2

Effective overburden pressure $q = (h + h_{soil}) \times \gamma_{soil} - h_{water} \times \gamma_{water} = \mathbf{21.600}$ kN/m^2

Design effective overburden pressure $q' = q / \gamma_\gamma = \mathbf{21.600}$ kN/m^2

Bearing resistance factors $N_q = \text{Exp}(\pi \times \tan(\phi'_d)) \times (\tan(45 \text{ deg} + \phi'_d / 2))^2 = \mathbf{12.588}$

$N_c = (N_q - 1) \times \cot(\phi'_d) = \mathbf{23.180}$

$N_\gamma = 2 \times (N_q - 1) \times \tan(\phi'_d) = \mathbf{11.585}$

Foundation shape factors $s_q = 1 + (L'_y / L'_x) \times \sin(\phi'_d) = \mathbf{1.164}$

$s_\gamma = 1 - 0.3 \times (L'_y / L'_x) = \mathbf{0.890}$

$s_c = (s_q \times N_q - 1) / (N_q - 1) = \mathbf{1.178}$

Load inclination factors $H = \mathbf{0.0}$ kN

$m_y = [2 + (L'_y / L'_x)] / [1 + (L'_y / L'_x)] = \mathbf{1.732}$

$m_x = [2 + (L'_x / L'_y)] / [1 + (L'_x / L'_y)] = \mathbf{1.268}$

$m = m_x = \mathbf{1.268}$

$i_q = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^m = \mathbf{1.000}$

$i_\gamma = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^{m+1} = \mathbf{1.000}$

$i_c = i_q - (1 - i_q) / (N_c \times \tan(\phi'_d)) = \mathbf{1.000}$

Ultimate bearing capacity $n_f = c'_d \times N_c \times s_c \times i_c + q' \times N_q \times s_q \times i_q + 0.5 \times \gamma_{soil} \times L'_y \times N_\gamma \times s_\gamma \times i_\gamma = \mathbf{1337.2}$ kN/m^2

PASS - Ultimate bearing capacity exceeds design base pressure