

Hampshire Water Transfer and Water Recycling Project

Environmental Statement - Appendix

11.2 Geotechnical and geo-

environmental reports - 5 of 18

documents - Geotechnical and Geo-

environmental Interpretative Report for

Ground Investigation in Section G

(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 (hereafter 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’s customers 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 within the Draft Order Limits (DoL). 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 pipeline development is being completed utilising 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 G 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), 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), 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), 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), 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), 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 G Ground Investigation Objectives

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

- Areas of potential sources of contaminant (PSCs) as identified within HWTWRP Geotechnical and Geo-Environmental Desk Study Version 4 (SSP, 2024)
- Intermediate Pumping Station – G (IPS-G) above ground plant (AGP) location
- The linear route at regular intervals to prove the geological conditions in line with Eurocode 7: Part 2 (BSI, 2007) recommendations
- A trenchless crossing beneath the River Meon, under major roads including A32 (Hoad's Hill) and A334 Winchester Road.

The Phase 2 and Phase 3B/3C Section G GI comprised the following:

- Seven locations associated with proposed launch/reception shaft locations at the proposed trenchless crossing including beneath the River Meon (2G4000SA and 2G4001SA in Phase 2 together with 3W8535SA and 3W8536SA for an alternative alignment option in Phase 3B/3C), 3W8529SA and 3W8530SA next to the A32 at Hoad's Hill as well as 3G4102SA to the west of the A334 (Winchester Road).
- Locations at potentially infilled gravel pits (2G4002DS, 2G4003DS and 2G4004DS in Phase 2 at PSCs 36 and 52), and 3W8534DS and 3W8539DS (PSC 46) in Phase 3B/3C.
- Three windowless sampling borehole locations at PSCs including a nursery (3G4022DS at PSC 34), and a garage (vehicle maintenance) (3G4037DS and 3G4038DS at PSC 475).
- Two locations, to allow BRE365 infiltration tests to be completed (3G7525IT, 3G7530IT), at the site of IPS-G to enable flood level risk assessments by SSP Hydrologists to be undertaken.
- Two locations at the proposed AGP IPS-G (3G4105SA and 3G4106SA).
- Eight locations to prove the geology along the linear route, to ensure coverage at regular spacings in line with Eurocode 7: Part 2 recommendations comprising 3G4023HP, 3W8526HP, 3W8527HP, 3W8528HP, 3W8531HP, 3W8532HP, 3W8538HP and 3W8560HP.

3G4102SA connects with 3H4600SA on the eastern side of the trenchless crossing of A334 (Winchester Road). As the boundary of Section G / H is between 3G4102SA and 3H4600SA, 3H4600SA will be discussed within Section H GIR (710166-SWS-XX-XX-RP-GE-00104). 2G4000SA and 2G4001SA boreholes, drilled during Phase 2 GI works, were completed based on a previous route alignment prior to April 2023.

The route alignment has been refined since December 2023 and borehole locations 2G4000SA and 2G4001SA are over 750 m from the current DoL. Boreholes 2G4002DS, 2G4003DS, 2G4004DS are also approximately 500m west from the refined route alignment. Geo-environmental and geotechnical data collected at these locations are not further discussed in this report due to the distance from the current route alignment.

The GI targeted identified PSCs with a risk rating of Moderate/Low or higher as identified within HWTWRP Geotechnical and Geo-Environmental Desk Study Version 4 (SSP, 2024). It is expected that the contractor will further assess identified PSCs (where additional information is need) and 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 objectives
Section 2	Description included location and description
Section 3	Summary of the GI (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 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/ 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 pipeline Sections is included in the separate relevant pipeline sectional reports collated in one overarching summary Geotechnical and Geo-environmental Interpretative report (Ref.710166-SWS-XX-XX-RP-GE-00100).

2 Section G Description

2.1 Location and Description

Section G covers a length of approximately 3.9 km as shown in the **Figures** section. It extends as open-cut construction from west of Forest Lane at National Grid Reference, (NGR) (458022E, 110133N), with ground level of approximately 63 m Ordnance Datum (OD). The route continues north of Castle Farm Lane, then west across arable fields towards a trenchless crossing beneath the A32 (Hoad's Hill) at NGR 457526E, 110802N, where ground level is approximately 30 m OD. It continues west across arable fields then northwest to a trenchless crossing commencing approximately 25 m southeast of Mayles Lane at NGR 456842E, 110694N. It then continues in a northwest direction for approximately 270 m under the River Meon and Wickham Wastewater Treatment Works (WTW) at NGR 456612E, 110868N. Ground elevation varies at this trenchless crossing between approximately 22 m OD near Mayles Lane to 16 m OD in the centre of the crossing (approximately equidistant between launch and reception pits) to approximately 24 m OD at Wickham WTW.

The route continues as open-cut construction from the northwestern end of Wickham WTW across Wickham Park Golf Club to the north and northwest where elevation gradually increases along the route for a 900 m distance rising to a ground level of approximately 52 m OD. Open-cut construction continues northeast behind Wickham Park Golf Club and its car park and through a compound (vehicle maintenance garage) with buildings either side of the compound. Subsequently, the route progresses northeast across arable fields for approximately 540 m to a trenchless crossing 80 m to the west of A334 Winchester Road at NGR 456666E, 112101N. The trenchless crossing extends east beneath the arable field and A334 Winchester Road into the subsequent field for a total of 110 m to the boundary of Section G / H at NGR 456773E, 112103N. Ground level at this point is approximately 54 m OD.

Section G will be constructed using ductile iron (DI) pipeline of 1200 mm diameter. Where installed in an open-cut, this will typically be between 3 and 6 m below ground level (bgl). For the A32 (Hoad's Hill) trenchless construction depths will be approximately 10 m bgl; for the River Meon/Wickham WTW between approximately 14.3 – 14.6 m bgl; and for the A334 Winchester Road approximately 12 m bgl. Temporary launch and reception shafts at the trenchless crossing locations 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 G, there is an Above Ground Plant (AGP) site called Intermediate Pumping Station – G (IPS-G). It is located within a flat arable field (ground level approximately 53 m OD), 110 m southeast of Titchfield Lane and 70 m northeast of Wickham Park Golf Club centred at NGR 456361E, 111714N as shown in the **Figures** section. The dimensions of IPS-G and details of ancillary structures are as follows:

- Pump House
- Twin Cell tank with a 2 Mega litre (ML) capacity comprising 2 No. cells each with 1 ML capacity
- Ancillary structures include 2 No. Surge Vessels of 30 m³ each, compressor kiosk, perimeter access roads at 6 m wide, office and welfare facilities, High Voltage (HV) and Low Voltage (LV) switch room air cooler units, transformers, generator and fuel storage.

3 Ground Investigation

3.1 Rationale for Ground Investigation Locations

The rationale for the Phase 2 and Phase 3B/3C GI is presented in **Table 3.1**.

Table 3.1: Rationale for Phase 2 and Phase 3B/3C Locations in Section G

GI Locations	Rationale for GI Location ¹
3W8560HP	To confirm the geology along the linear pipe route
3W8526HP	
3W8527HP	
3W8528HP	
3W8529SA	Excavation area for trenchless crossing beneath the A32 (Hoad's Hill)
3W8530SA	
3W8531HP	To confirm the geology along the linear route
3W8532HP	
3W8535SA	Excavation area for trenchless crossing beneath the River Meon; 3W8536SA is located within a Wastewater Treatment Works (PSC 485)
3W8536SA	
3W8538HP	To confirm the geology along the linear route
3W8539DS	Investigation of potentially infilled gravel pits (PSC 46) within the DoL
3W8534DS	
3G4022DS	Investigation of a nursery (PSC 34) adjacent to the DoL
3G4037DS	Investigation of a garage (PSC 475) within the DoL
3G4038DS	
3G7525IT	To undertake infiltration testing
3G7530IT	
3G4105SA	AGP IPS-G
3G4106SA	
3G4023HP	To confirm the geology along the linear route
3G4024HP	
3G4102SA	Excavation area for trenchless crossing beneath the A334 (Winchester Road)
2G4000SA	Excavation area for trenchless crossing of the River Meon (previous route alignment) and not considered further herein from a geotechnical or geoenvironmental perspective
2G4001SA	
2G4002DS	Investigation of potentially infilled gravel pits (PSCs 36 and 52) adjacent to the DoL however approximately 500m from the refined route alignment since December 2023 and not considered further herein from a geotechnical perspective
2G4003DS	
2G4004DS	

¹ PSCs within a 50m buffer of the Section G pipeline route were identified by the desk study which warranted further investigation (SSP, 2024).

3.2 Section G Ground Investigation

GI was carried out at selected locations across Section G by SOCOTEC. Investigation was completed between 20th March 2023 and 3rd April 2023 (Phase 2) 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 Phase 2 GI:

- Two boreholes (2G4000SA and 2G4001SA) were completed by cable percussion boring to a drilled depth of around 20.0 m bgl.
- Three boreholes (2G4002DS, 2G4003DS and 2G4004DS) were completed by dynamic sampling to depths between 2.0 and 6.0 m bgl.

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

- Five boreholes (3G4102SA, 3W8529SA, 3W8530SA, 3W8535SA and 3W8536SA) were completed by cable percussion boring to a drilled depth of around 20.0 m bgl.
- Two boreholes (3G4105SA and 3G4016SA) were completed by cable percussion boring to a drilled depth of 30.0 m bgl.
- Six boreholes (3G4022DS, 3G4024DS, 3G4037DS, 3G4038DS, 3W8534DS, 3W8539DS) were completed by dynamic sampling to depths between 2.0 and 6.0 m bgl.
- Eight hand excavated trial pits (3G4023HP, 3W8526HP, 3W8527HP, 3W8528HP, 3W8531HP, 3W8532HP, 3W8538HP and 3W8560HP) completed to depths between 0.95 and 1.2 m bgl.
- Two trial pits (3G7525IT, 3G7530IT) completed by machine excavator to depths between 1.5 – 2.5 m bgl.

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

The details of the investigation, tests and laboratory analysis are presented in the SOCOTEC GI final factual reports (SOCOTEC, 2023) (SOCOTEC, 2024). A description of GI locations is shown in **Table 3.2**.

Table 3.2: Description of GI Locations

GI Locations	National Grid Reference ¹	Location
3W8560HP	458018, 110147	Located in an arable field approximately 80 m northwest of Forest Lane within the DoL.
3W8526HP	458014, 110415	Located in an arable field approximately 55 m southwest of Castle Farm Lane and 320 m east of A32 Hoad's Hill.
3W8527HP	458067, 110540	Located in an arable field, approximately 80 m north of Castle Farm Lane.
3W8528HP	457714, 110765	Located in an arable field, approximately 170 m northeast of A32 Hoad's Hill
3W8529SA	457557, 110802	Located in an arable field, approximately 30 m east of A32 Hoad's Hill
3W8530SA	457485, 110793	Located in an arable field, approximately 30 m west of A32 Hoad's Hill
3W8531HP	457281, 110669	Located in an arable field, approximately 270 m west of A32 Hoad's Hill
3W8532HP	456998, 110576	Located in an arable field, approximately 215 m southeast of Mayles Lane
3W8535SA	456844, 110705	Located in an arable field, approximately 15 m southeast of Mayles Lane
3W8536SA	456626, 110866	Located within Wickham WTW near the entrance adjacent to the DoL, and within 15 m southeast of Tanfield Lane.
3W8538HP	456490, 111275	Located at Wickham Park Golf Club, approximately 350 m southeast of the club house, approximately 15 m southwest of woodland
3W8539DS	456294, 111471	Located on the embankment immediately adjacent to the Wickham Park Golf Club, approximately 17 m southwest from 3W8534DS.
3W8534DS	456298, 111487	Located on the embankment immediately next to the Wickham Park Golf Club, approximately 35 m south from the golf driving range area.
3G4022DS	456237, 111625	Located 5 m from the Wickham Park Golf Club access road, adjacent to the car park, within the DoL.
3G4037DS	456290, 111652	Located to the southwest of a motorhome service centre (PSC 475), and southwest of a nursery (PSC 34).
3G4038DS	456036, 111677	Located adjacent to a motorhome service centre, approximately 30 m northeast of 3G4037DS
3G7525IT	456361, 117670	Located in an arable field, approximately 15 m northeast of a track leading southeast from Titchfield Lane
3G7530IT	456335, 111688	Located in an arable field, approximately 10 m northeast of a track leading southeast from Titchfield Lane, and 35 m northwest of 3G7525IT
3G4105SA	456361, 111686	Located in an arable field, approximately 30 m northeast of a track leading southeast from Titchfield Lane, immediately north of the garden centre nursery
3G4106SA	456360, 117334	Located in an arable field, approximately 60 m northeast of a track leading southeast from Titchfield Lane, and approximately 120 m southeast of Gardeners Cottage on Titchfield Lane.
3G4023HP	456522, 111909	Located in an arable field, approximately 15 m southeast of the pipeline, and 20 m behind Sandy Walk house on Titchfield Lane.
3G4024DS	456585, 111997	Located in an arable field, within the DoL, and 80 m southeast of Titchfield Lane.
3G4102SA	456666, 112101	Located in an arable field, approximately 90 m west of A334 Winchester Road, and approximately 45 m southeast of Titchfield Lane

GI Locations	National Grid Reference ¹	Location
2G4000SA²	456194, 110259	Located within a field on the southeastern side of the River Meon, at the site of a former proposed trenchless crossing, 1.5 km southwest of Wickham, Hampshire. Mayles Lane is ~70 m to the southeast.
2G4001SA²	456116, 110350	Located within a field on the northwestern side of the River Meon, at the site of a former proposed trenchless crossing, 1.5 km southwest of Wickham, Hampshire, Mayles Lane is ~200 m to the southeast.
2G4002DS²	455957, 111181	Located within the Wickham Park Golf Club, 80 m east of Titchfield Lane and 1.2 km west of Wickham, Hampshire.
2G4003DS²	455966, 111201	
2G4004DS²	455959, 111182	

¹ provided in the final factual GI reports (SOCOTEC, 2023) (SOCOTEC, 2024).

² 2G4000SA, 2G4001SA, 2G4002DS, 2G4003DS, 2G4004DS are no longer on the proposed pipeline route.

3.3 Exploratory Holes and Monitoring Well Installations

The exploratory hole locations and borehole logs are presented in SOCOTEC's Ground Investigation Report (Factual account of Fieldwork Monitoring and Laboratory Testing) (SOCOTEC, 2023) (SOCOTEC, 2024).

Table 3.3 provides a summary of the locations and installation response zones. Groundwater and gas monitoring wells were installed in 2G4000SA, 2G4001SA and 2G4003DS (50 mm pipe diameter). A datalogger was installed in monitoring well 2G4000SA at 15.5 m bgl on the 16th June 2023, during the second groundwater monitoring event. Both GI locations, 2G4000SA and 2G4001SA, are now over 750 m southwest from the DoL, however, they have been kept within this document as a record of gas and groundwater monitoring information within Phase 2 GI.

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
2G4000SA	2.0 to 17.0 (River Terrace Deposits/Lambeth Group (Clay))	12 No. (20 April 2023 to 6 March 2024)	9 No. (20 April 2023 to 6 March 2024)	3 No. 16/05/2023 14/07/2023 11/09/2023
2G4001SA	1.0 to 11.0 (River Terrace Deposits/London Clay/Lambeth Group)	7 No. (20 April 2023 to 10 November 2023)	7 No. (20 April 2023 to 10 November 2023)	2No. 15/07/2023 14/09/2023
2G4003DS	1.0 to 4.0 Earnley Formation/Wittering Formation	10 No. (20 April 2023 to 10 January 2024)	7 No. (20 April 2023 to 10 January 2024)	None collected
3G4022DS	1.0 to 3.0 (River Terrace Deposits)	9 No. (3 April to 17 July 2024)	9 No. (3 April 2024 to 17 July 2024)	3 No. 24/04/2024 08/05/2024 14/05/2024

BH ID	Response Zones (m bgl)	Groundwater Monitoring Rounds	Gas Monitoring Rounds	Groundwater Samples Collected
3G4037DS	3.0 to 6.0 (Earnley Sand Formation)	6 No. (16 th April to 3 rd July 2024)	6 No. (16 th April to 3 July 2024)	3 No. 07/05/2024 15/05/2024 31/05/2024
3G4038DS	1.0 to 2.5 (Earnley Sand Formation)	6 No. (30 April to 3 July 2024)	6 No. (30 April to 3 July 2024)	3 No. 03/05/2024 15/05/2024 31/05/2024
3G4102SA	3.5 to 13 (Wittering Formation)	6 No. (16 April to 3 July 2024)	6 No. (16 April to 3 July 2024)	3 No. 03/05/2024 15/05/2024 31/05/2024
3G4105SA	7.5 to 11 (Earnley Sand Formation)	6 No. (16 April to 3 July 2024)	6 No. (16 April to 3 July 2024)	None collected
3G4106SA	2.5 to 10 (River Terrace Deposits and Earnley Sand Formation)	6 No. (16 April to 3 July 2024)	6 No. (16 April to 3 July 2024)	None collected
3W8529SA	5.5 to 11.0 m (Wittering Formation and Whitecliff Sand Member)	5 No. (19 June to 12 August)	5 No. (19 June to 12 August 2024)	3 No. 19/06/2024 02/07/2024 17/07/2024
3W8530SA	5.5 to 10 (Wittering Formation and Whitecliff Sand Member)	5 No. (19 June to 12 August 2024)	5 No. (19 June to 12 August 2024)	3 No. 19/06/2024 02/07/2024 17/07/2024
3W8534DS	2.0 to 3.0 (River Terrace Deposits)	8 No. (3 April to 16 July 2024)	8 No. (3 April to 16 July 2024)	3 No. 24/04/2024 01/05/2024 14/05/2024
3W8535SA	6.5 to 12.5 (Wittering Formation and possible Whitecliff Sand Member)	6 No. (1 May to 17 July 2024)	5 No. (22 May to 17 July 2024)	3 No. 22/05/2024 28/05/2024 18/06/2024
3W8536SA	11.5 to 17.0 (Whitecliff Sand Member)	6 No. (3 April to 8 July 2024)	6 No. (3 April to 8 July 2024)	3 No. 24/04/2024 01/05/2024 29/05/2024
3W8539DS	1.0 to 2.0 (River Terrace Deposits)	8 No. (3 April to 16 July 2024)	8 No. (3 April to 16 July 2024)	3 No. 24/04/2024 01/05/2024 14/05/2024

3.4 Geo-Environmental Testing

Geo-environmental laboratory testing was scheduled, by SSP, on selected soil and groundwater samples recovered during the ground investigation 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) test methods as stated within the laboratory test reports. The scope of testing is listed in **Appendix B**. **Appendix B** shows that several requested chemical analyses were not included in either AGS format or the ground investigation reports (SOCOTEC, 2023) (SOCOTEC, 2024).

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 G comprise Alluvium, Head Deposits and River Terrace Deposits, Superficial deposits are not present along some areas of the proposed pipeline route through Section G between Forest Lane and west of A32 (Hoad's Hill) east of Titchfield Lane and Tanfield Lane. Superficial Deposits extent is summarised in **Table 4.1**.

Table 4.1: Summary of Mapped Superficial Deposits at Ground Level

Chainages	Geology	Typical Description
14800 - 16240	Not present	-
16240 - 16360	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys.
16360 - 16630	Not present	-
16630 - 16730	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys.
16730 - 16780	Not present	-
16780 - 16900	Alluvium	Clay, silt and sand, locally organic with gravel.
16900 - 17030	River Terrace Deposits	Undifferentiated sand and gravel.
17030 - 17480	Not present	-
17480 - 17910	River Terrace Deposits	Undifferentiated sand and gravel.
17910 - 18530	Not present	-
18530 - 18620	River Terrace Deposits	Undifferentiated sand and gravel.
18620 - 18685	Not present	-
18685 - 18700	River Terrace Deposits	Undifferentiated sand and gravel.

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

These superficial deposits are underlain by the bedrock, which its sequence decreases with age from southeast to northwest. London Clay Formation at Mayles Lane nearest to the River Meon crossing and A32 (Hoad's Hill) crossing is the oldest, with strata becoming progressively younger to Earnley Sand Formation in the northwest, near to Titchfield Lane and Wickham Park Golf Club. Bedrock extents are summarised in **Table 4.2**.

Table 4.2: Summary of Mapped Bedrock at Ground Level

Chainages	Geology	Typical Description
14800 - 14840	London Clay Formation	Grey and brown silty and sandy clays with sandy and pebbly beds.
14840 - 14930	London Clay Formation - Whitecliff Sand Member	Fine silty sand with rounded pebbles beds
14930 - 15185	London Clay Formation	Grey and brown silty and sandy clays with sandy and pebbly beds.

Chainages	Geology	Typical Description
15185- 15260	London Clay Formation - Whitecliff Sand Member	Fine silty sand with rounded pebbles beds
15260 - 15400	Wittering Formation	Olive grey, laminated clays with sand and silt
15400 - 16140	London Clay Formation - Whitecliff Sand Member	Fine silty sand with rounded pebbles beds
16140 - 16400	London Clay Formation	Grey and brown silty and sandy clays with sandy and pebbly beds.
16400 - 16560	London Clay Formation - Whitecliff Sand Member	Fine silty sand with rounded pebbles beds
16560 - 17050	London Clay Formation*	Silt, clay and sand
17050 - 17100	London Clay Formation - Whitecliff Sand Member	Fine silty sand with rounded pebble beds
17100 - 17700	Wittering Formation	Olive grey, laminated clays with sand and silt
17700 - 18540	Earnley Sand Formation	Yellowish grey mottled orange clayey fine sand with occasional pockets of soft to firm clay
18540 - 18700	Wittering Formation	Olive grey, laminated clays with sand and silt

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

*Note that between chainage 16560 – 17040 London Clay Formation bedrock is mapped at surface, however borehole 3W8536SA within this chainage range (at approximately chainage 17025) encountered London Clay Formation - Whitecliff Sand Member from 3.65 – 20.45 m bgl.

Also, between approximately 720 m and 750 m southwest of chainage 16700 and 16800, Lambeth Group is mapped as bedrock at surface, where Phase 2 GI locations 2G4000SA and 2G4001SA were completed.

Artificial Made Ground, consisting of dug gravel pits, was indicated to be present by BGS mapping within the west of Wickham Park Golf Club.

One historic borehole (BGS Ref: SU51SE5 approximately 150 m northwest of the pipeline route) was drilled in 1895 (records reviewed in 1976) was considered of relevance to the pipeline route. The top 27.4m bgl of the borehole has no geological information as it was an old well. At 27.4 m bgl, the borehole encountered sandy clay, clayey sand, and clay of the Bracklesham Beds (now referred to as Bracklesham Group). The Bracklesham Group includes both Earnley Sand Formation and Wittering Formation, which aligns with the geological mapping.

4.2 Section G Ground Investigation Results

4.2.1 Encountered Ground

A summary of the ground conditions encountered during the ground investigation is provided in **Table 4.3**. Exploratory hole logs are presented in SOCOTEC's Phase 2 Ground Investigation Report (SOCOTEC, 2023) (SOCOTEC, 2024) to provide more details.

Chainages across the pipeline route for Section M are between 14800 and 18700.

Phase 2 GI encountered ground that generally aligns with that of geological mapping.

The pipeline route changed alignment since the Phase 2 GI works completed, with Phase 3B/3C GI locations along the new route. Along this section:

- Made Ground was not mapped, but was encountered at 3G4037DS, 3G4038DS, 3W8534DS, 3W8536SA and 3W8539HP to a maximum of 2.2 m bgl; and

- At 3W8529SA, 3W8530SA, 3W8536SA Wittering Formation is encountered prior to London Clay Formation - Whitecliff Sand Member (WHI) though only London Clay Formation and WHI bedrock is mapped at the location.

River Terrace Deposits are shown to be predominantly fine grained, but were mapped as gravel, sand and silt, while Earnley Sand Formation is typically silty sand and sandy silt, but is found to be sandy clay in Section G. Ground investigations align with the historical borehole outlined in **Section 4.1**, this is discussed further in **Section 8.1**.

Table 4.3: Summary of Encountered Ground Conditions for Section G Exploratory Holes

Exploratory Hole ID		2G4000SA^	2G4001SA^	2G4002DS	2G4003DS	2G4004DS	3G4022DS	3G4023HP	3G4024DS	3G4037DS	3G4038DS	3G4102SA	3H4600SA**	3G4105SA	3G4106SA	3G7525IT	3G7530IT
Chainage		N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	18370	18470	18025	18050	18600	18700	18100	18100	18100	18100
Ground Level (m OD)		+19.29	+14.33	+45.42	+46.22	+45.45	+55.07	+54.85	+55.82	+52.96	+52.56	+55.20	+54.21	+51.74	+52.77	+51.64	+52.17
Strata	Typical Description	Depth range (m bgl)															
Topsoil (TOP)	Very soft to soft dark brown gravelly sandy CLAY / SILT / clayey SAND with rootlets. Sand is fine to coarse. Gravel is fine to coarse flint.	0.0 - 0.05	0.00 – 0.25	-	-	-	-	0.00 – 0.30	0.00 – 0.30	-	-	0.00 – 0.35	0.00 – 0.40	-	0.00 – 0.30	0.00 0.35	– 0.00 0.35
Made Ground (MGR)	Soft to firm dark brown sandy gravelly CLAY. Sand is fine to coarse / Dark grey sandy subangular fine to medium GRAVEL locally with cobbles of flint. Gravel is subrounded to subangular to subrounded fine to medium of tarmacadam, brick, chalk are rare charcoal.	0.05 – 0.30	-	0.00 – 0.40	0.00 – 0.40	0.0 – 0.40	-	-	-	0.00 – 1.20	0.00 – 0.30	-	-	-	-	-	-
Alluvium (ALV)	Yellowish brown gravelly clayey SAND with rare rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	-	0.25 – 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Head Deposits (HEAD)	Firm sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint.	0.30 – 1.30	-	-	0.40 – 0.65	-	-	-	-	-	-	-	-	-	-	-	-
River Terrace Deposits (RTD)	Firm (locally stiff) brownish red sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse flint.	1.30 – 2.50	0.70 – 3.50	0.40 – 0.55	-	-	0.00 – 1.50	-	-	1.20 – 3.65	0.30 – 5.60	0.35 – 4.00	0.40 – 0.80	0.00 – 0.45	0.30 – 2.30	-	-
	Grey sandy clayey GRAVEL locally with cobbles of angular flint. Sand is coarse. Gravel is subrounded to subangular medium to coarse chert / Dense orangish brown silty gravelly SAND with pockets of reddish brown clay. Gravel is fine to coarse angular to subangular of flint.	-	-	-	-	0.40 – 0.65	1.50 – 3.60	-	0.30 – 1.70	-	-	-	0.80 – 1.70	0.45 – 2.50	2.30 – 3.80	0.35 1.50	– 0.35 2.50
Earnley Sand Formation (EA)	Firm grey, orange sandy locally gravelly CLAY. Sand is medium to coarse. Gravel is subangular to well rounded fine to coarse of chert.	-	-	0.55 – 1.20	0.65 – 1.20	0.65 – 1.20	-	0.30 – 1.20	-	-	-	-	-	2.50 – 3.20	-	-	-
	Medium dense and dense yellowish grey mottled orange locally greyish blue mottled orange clayey fine SAND with occasional pockets of soft clay	-	-	-	-	-	-	-	1.70 - 6.45	3.65 – 6.00	5.60 – 6.45	-	-	3.20 – 27.80	3.80 – 27.00	-	-
Wittering Formation (WTT)	Firm to very stiff locally soft laminated orangish brown and bluish grey CLAY locally with pockets fine to medium sand.	-	-	1.20 – 3.00	1.20 – 4.00	1.20 – 3.00	-	-	-	-	-	-	1.70 – 9.45	27.80 – 30.45	27.00 30.00	– -	-
	Dense to very dense yellowish brown/orange and black speckled silty SAND	-	-	-	-	-	-	-	-	-	-	4.00 – 13.10	9.45 – 10.00	-	-	-	-
London Clay Formation (LC)	Stiff to very stiff grey CLAY with abundant gypsum crystals.	-	3.50 – 10.90	-	-	-	-	-	-	-	-	13.10 20.45	– 10.00 20.00	-	-	-	-
Lambeth Group (LMBE)	Stiff brownish red and grey gravelly CLAY. Gravel is angular to subangular fine flint.	2.50 – 4.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Stiff to very stiff reddish brown mottled grey CLAY with sand lenses.	4.50 – 20.00	10.90 20.00	– -	-	-	-	-	-	-	-	-	-	-	-	-	-
End of Hole (m bgl)		20.00	20.00	3.00	4.00	3.00	3.60	1.20	6.45	6.00	6.45	20.45	20.00	30.45	30.00	1.50	2.50

*N/A within chainage row corresponds to 2G4000SA, 2G4001SA, 2G4002DS, 2G4003DS, 2G4004DS that is no longer within the latest pipeline route so chainage numbers will not apply. 2G4002DS, 2G4003DS and 2G4004DS in the golf course are within the DoL however approximately 500m from the proposed pipeline development route. ^Both 2G4000SA and 2G4001SA are now over 750 m southwest from the DoL however have been kept within this document as a record of completed geological information within Phase 2 GI

**3H4600SA is shown above within this Section G GIR report because it is connected with the paired trenchless crossing borehole, 3G4102SA though all other geotechnical data for 3H4600SA will be incorporated with Section H GIR. A groundwater strike at 3.00 m bgl.

Table 4.3: Summary of Encountered Ground Conditions for Section G Exploratory Holes

Exploratory Hole ID:		3W8526HP	3W8527HP	3W8528HP	3W8529SA	3W8530SA	3W8531HP	3W8532HP	3W8534DS	3W8535SA	3W8536SA	3W8538HP	3W8539DS	3W8560HP
Chainage		15100	15200	15740	15900	15960	16210	16510	17800	16730	17030	17500	17770	14800
Ground Level (m OD)		+43.38	+38.55	+32.40	+31.09	+30.10	+35.44	+38.88	+53.14	+21.92	+23.65	+49.70	+37.56	+62.81
Strata	Typical Description	Depth range (m bgl)												
Topsoil (TOP)	Very soft to soft dark brown gravelly sandy CLAY / SILT / clayey SAND with rootlets. Sand is fine to coarse. Gravel is fine to coarse flint.	0.00 – 0.25	0.00 – 0.35	0.00 – 0.40	0.00 – 0.35	0.00 – 0.20	-	0.00 – 0.25	-	0.00 – 0.30	-	0.0 - 0.50	-	0.00 - 0.25
Made Ground (MGR)	Soft to firm dark brown sandy gravelly CLAY. Sand is fine to coarse / Dark grey sandy subangular fine to medium GRAVEL locally with cobbles of flint. Gravel is subrounded to subangular to subrounded fine to medium of tarmacadam, brick, chalk are rare charcoal, ceramic and metal. At 3W8539DS between 0.75 – 0.85m, slight hydrocarbon odour.	-	-	-	-	-	-	-	0.00 – 2.20	-	0.00 – 0.35	-	0.00 – 0.85	-
Alluvium (ALV)	Yellowish brown gravelly clayey SAND with rare rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	-	-	-	-	-	-	-	-	-	-	-	-	-
Head Deposits (HEAD)	Firm sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint.	0.25 – 0.75	0.35 – 1.20	0.40 – 0.80	-	-	0.00 – 1.20	0.25 – 0.70	-	0.30 – 2.50	-	-	-	-
River Terrace Deposits (RTD)	Very soft to firm (locally stiff) brownish red sandy gravelly CLAY with cobbles. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of chert. Cobbles are very angular to angular of chert.	-	-	-	-	-	-	-	-	-	0.35 – 2.10	-	-	-
	Grey sandy clayey GRAVEL with cobbles of very angular flint. Sand is coarse. Gravel is subrounded to subangular medium to coarse chert / Dense orangish brown silty gravelly SAND with pockets of reddish brown clay. Gravel is fine to coarse angular to subangular of flint.	0.75 - 0.95	-	-	-	-	-	-	2.20 – 3.15	-	2.10 – 3.60	0.50 – 1.20	0.85 – 2.00	-
Earnley Sand Formation (EA)	Firm grey, orange sandy locally gravelly CLAY. Sand is medium to coarse. Gravel is subangular to well rounded fine to coarse of chert.	-	-	-	-	-	-	-	-	-	-	-	-	-
	Medium dense and dense yellowish grey mottled orange locally greyish blue and reddish brown clayey locally gravelly fine SAND with occasional pockets of soft clay	-	-	-	-	-	-	-	3.15 – 4.00	-	-	-	-	-
Wittering Formation (WTT)	Alternating bands of firm to very stiff locally soft laminated orangish brown locally red and bluish grey CLAY and dense to very dense yellowish brown/orange and black speckled silty SAND. /	-	-	-	0.35 – 6.00	0.20 – 5.80	-	-	-	2.50 – 10.50	-	-	-	-
	Grey gravelly CLAY locally with cobbles / Greenish grey gravelly SAND. Both gravel and cobbles of rounded flint	-	-	-	6.00 – 7.95	5.80 – 6.00	-	-	-	-	-	-	-	-
	Firm to stiff grey sandy CLAY. Sand is fine to coarse.	-	-	-	7.95 – 9.00		-	-	-	-	-	-	-	-
London Clay Formation - Whitecliff Sand Member (WHI)	Dense to very dense orangish brown fine to medium silty SAND.	-	-	0.80 – 1.20	9.00 – 20.00	6.00 – 20.00	-	0.70 – 1.20	-	10.50 – 12.40	3.60 – 20.45	-	-	-
London Clay Formation (LC)	Soft to firm orangish brown with rare mottling slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is angular medium to coarse of chert.	-	-	-	-	-	-	-	-	-	-	-	-	0.25 – 1.20
	Stiff to very stiff grey CLAY with abundant gypsum crystals.	-	-	-	-	-	-	-	-	12.40 – 20.05	-	-	-	-
End of Hole (m bgl)		0.95	1.20	1.20	20.00	20.00	1.20	1.20	4.00	20.05	20.45	1.20	2.00	1.20

4.2.2 Groundwater Levels

Groundwater and ground gas monitoring took place in selected boreholes. Monitoring was carried out by SOCOTEC during and after the main fieldwork period. A summary of groundwater and ground gas monitoring installations is provided in **Table 4.4** along with the groundwater strikes, and groundwater spot monitoring data collected at monitoring well locations.

Table 4.4: Summary of Groundwater Strikes and Spot Monitoring Records

Exploratory Hole	Strike During Drilling – Depth and Elevation (m)	Response zone (m bgl)	Stratum Within Which Strike Was Recorded	Spot Monitoring – Depth and Elevation	Data Logger – Minimum and Maximum Depth
2G4000SA^	Dry	2.00 – 17.00 (River Terrace Deposits/Lambeth Group (Clay))	-	0.00 to 1.16 m bgl 19.29 to 18.13 m OD	-0.06* m to 11.88 m bgl 7.41 m to 19.35 m OD
2G4001SA^	Dry	1.00 – 11.00 (River Terrace Deposits into London Clay Formation)	-	0.30 to 0.95 m bgl 14.03 m to 13.38 m OD	None
2G4002DS	1.10 rising to 0.80 (+44.32 to +33.62 m OD)	-	Earnley Sand Formation	-	
2G4003DS	1.10 rising to 0.80 (+45.12 to +45.42 m OD)	- 4.00 (Earnley/Wittering Formations)		0.56 to 3.76 m bgl 45.66 to 42.46 m OD	
2G4004DS	1.10 (+44.35 m OD)	-		-	
3G4022DS	Dry	1.00 – 3.00 (River Terrace Deposits)	-	0.64 to 2.65 m bgl 54.43 to 52.42 m OD	None
3G4024DS	1.10 slow seepage (+54.72 m OD)	-	River Terrace Deposits	-	None
3G4037DS	6.00 seepage (+46.96 m OD)	3.00 – 6.00 (River Terrace Deposits and Earnley Sand Formation)	Earnley Sand Formation	1.96 to 3.76 m bgl 51.00 to 49.20 m OD	None
3G4038DS	Dry	1.00 – 2.50 (River Terrace Deposits)	-	0.55 to 1.31 m bgl 52.01 to 51.25 m OD	None
3G4102SA	Dry	3.50 – 13.00 (River Terrace Deposits and Wittering Formation)	-	10.73 to 11.10 m bgl 44.47 to 44.10 m OD	None

Exploratory Hole	Strike During Drilling – Depth and Elevation (m)	Response zone (m bgl)	Stratum Within Which Strike Was Recorded	Spot Monitoring – Depth and Elevation	Data Logger – Minimum and Maximum Depth
3G4105SA	0.50 m (+51.24 m OD) 10.55 m rose to 8.36m (+41.19 m OD to +43.19 m OD)	7.50 – 11.00 (Earley Sand Formation)	River Terrace Deposits Earnley Sand Formation	9.70 to 10.74 m bgl 42.04 to 41.00 m OD	None
3G4106SA	Dry	2.50 – 10.00 (River Terrace Deposits and Earnley Sand Formation)	-	-	None
3W8529SA	6.00 m rose to 2.49 m (+25.09 to +28.60 m OD)	5.50 – 11.00 (Wittering Formation and Whitecliff Sand Member)	Wittering Formation	1.23 to 1.37 m bgl 29.86 to 29.72 m OD	None
3W8530SA	6.00 m rose to 2.57 m (+24.10 to +27.53 m OD) 8.80 m rose to 4.11 m (+21.30 to 25.99 m OD)	5.50 – 10.00 (Wittering Formation and Whitecliff Sand Member)	Wittering Formation Whitecliff Sand Member	1.28 to 1.45 m bgl 28.83 to 28.65 m OD	None
3W8534DS	Dry	2.00 – 3.00 (River Terrace Deposits)	-	1.94 to 2.90 m bgl 49.28 to 48.32 m OD	None
3W8535SA	4.50 m rose to 1.95 m (+17.42 to +19.97 m OD)	6.50 – 12.50 (Wittering Formation and Whitecliff Sand Member)	Wittering Formation	0.41 to 0.70 m bgl 21.51 to 21.22 m OD	None
3W8536SA	17.00 m rose to 9.52m (+6.65 to +14.13 m OD)	11.50 – 17.00 (Whitecliff Sand Member)	Whitecliff Sand Member	2.19 to 2.52 m bgl 21.46 to 21.13 m OD	None
3W8539DS	Dry	1.00 – 2.00 (River Terrace Deposits)	-	0.83 to 1.54 m bgl 49.59 to 48.88 m OD	None

Data logger installed in 2G4000SA at 15.50 m bgl.

*Minimum depth recorded is above ground level.

^ Both 2G4000SA and 2G4001SA are now over 750 m southwest from the DoL however have been kept within this document as a record of completed geological information and groundwater records within Phase 2 GI.

The ground conditions and groundwater results are consistent with the anticipated ground conditions from the desk study and BGS boreholes.

4.2.3 Visual and/or Olfactory Contamination

Table 4.5 summarises encountered visual and/or olfactory contamination encountered in exploratory locations within Section G.

Table 4.5: Visual and/or Olfactory Contamination noted during Phase 2 and Phase 3B/3C GI

BH ID	Location	PSC	Visual / Olfactory Contamination
3W8539DS	456294, 111471	Pit – Various (PSC 46)	Slight hydrocarbon odour noted within Made Ground, 0.75 m to 0.85 m bgl. Made Ground described as black sandy gravels comprised of macadam, concrete and brick.

5 Generic Quantitative Risk Assessment (GQRA)

This report section assesses the soil, soil leachate, groundwater and gas data collected within the DoL for Section G only.

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 SOCOTEC GIs (Phase 2 and Phase 3B/3B) have been compared to current published generic assessment criteria (GAC) to identify potential hazards to the plausible receptors.

The 72 No. soil samples collected included 2 No. samples of Topsoil, 8 No. samples of Made Ground and 62 No. of natural ground samples (River Terrace Deposits and Clays from the Wittering and Earnley Formations, and the Lambeth Group).

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). Details of the GAC used for screening are provided in **Appendix G**. Asbestos was detected in one of the samples subject to an asbestos screen as detailed below (**Table 5.1**).

Table 5.1: Soil Contaminant Concentrations in Excess of Human Health GAC

BH ID	Depth and Strata (m bgl)	Determinand	Concentration (%w/w (mg/kg))	Generic Assessment Criteria (mg/kg)
3G4038DS	0.1 – Made Ground comprised gravels of chert and brick.	Asbestos - Chrysotile	0.009 (90)	N/A

5.1.2 Notable Soil Concentrations

GAC are not available for all determinands analysed. Chemical concentrations which appear to be elevated compared to other chemical results recorded during the GI are included in **Table 5.2**. Due to the variable nature of infilled ground (PSCs 36, 46 and 52), elevated chemical concentrations can occur randomly; therefore, the concentrations do not indicate a specific point source of contamination but may assist in identifying concentrations which might pose a health and safety risk when compared to other concentrations found.

Table 5.2: Notable Soil Concentrations

BH ID	Depth (m bgl)	Stratum	Determinand	Concentration (mg/kg)	Notes
2G4003DS	3.7	Wittering Formation	Sulphate (SO ₄)	19,000	Potential outlier, all other samples recorded concentration between 81 mg/kg and 927 mg/kg. This concentration may possibly be natural.
3G4105SA	1.0	River Terrace Deposits	TPH Total >C10-C40	1,920	Potential outliers detected concentrations are

BH ID	Depth (m bgl)	Stratum	Determinand	Concentration (mg/kg)	Notes
3G4037DS	0.5	Made Ground	TPH Total >C10-C40	600	generally between 24 mg/kg and 144 mg/kg. These may indicate further hydrocarbon contamination within the vicinity of locations.
3W8539DS	0.8	Made Ground	TPH Total >C10-C40	1,350	

5.1.3 Soil Sample Deviations

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

Of the 12 No. soil leachate (2:1 ratio) analysis requested during the Phase 2 GI, only one result has been reported to date, 2G4003DS 3.7 m bgl (Clay, Wittering Formation). A further 10 No. of samples were collected and sent for analysis during the Phase 3B/3C GI. The exceedances compared to the GAC (Environmental Quality Standards (EQS), the Drinking Water Inspectorate Guidance on UK Drinking Water Standards (DWS) and the withdrawn Water Supply (Water Quality) Regs 1989 (WQS) GAC for petroleum hydrocarbons are shown in **Table 5.3**. Concentrations of Total Ammonia (N) and 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**.

Table 5.3: Soil Leachate Sample Exceedances of GAC

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	GAC (µg/l)
2G4003DS	3.7	Wittering Formation, Clay	Chromium (VI)	4	3.4 (EQS)
			TPH aromatic (C ₈ -C ₄₀)	70	10 (WQS)
3G4022DS	3.5	River Terrace Deposits, Clay	Ammonium (NH ₄)	5,909.44	500 (DWS)
			Total Ammonia (N)	4,702.4	200 – 600 (WFD)
			Copper	5	1 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	20	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)		
3G4037DS	4.6	Earnley Sand Formation	Ammonium (NH ₄)	3,810	500 (DWS)

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	GAC (µg/l)
			Total Ammonia (N)	2,997.6	200 – 600 (WFD)
			Chromium (VI)	21	3.4 (EQS)
			Copper	3	1 (EQS)
			Lead	2	1.2 (EQS)
			TPH (C ₆ -C ₄₀)	110*	10 (WQS)
3G4038DS	3.8	Earnley Sand Formation, Silt	Ammonium (NH ₄)	1,635.2	500 (DWS)
			Total Ammonia (N)	1,301.2	200 – 600 (WFD)
			TPH (C ₆ -C ₄₀)	120	10 (WQS)
3W8529SA	1.8	Wittering Formation	Copper	5	1 (EQS)
	5.5		Ammonium (NH ₄)	519	500 (DWS)
			Total Ammonia (N)	403.5	200 – 600 (WFD)
			Cadmium	2.12	0.08 (EQS)
			Nickel	279	20 (DWS) 4 (EQS)
			Sulphate (SO ₄)	262,000	250,000 (DWS)
			Selenium	12	10 (DWS)
			Zinc	173	10.9 (EQS)
			TPH (C ₆ -C ₄₀)	110*	(WQS)
3W8530SA	6	Wittering Formation, Sand	Nickel	5	4 (EQS)
3W8535SA	4.5	Wittering Formation	TPH (C ₆ -C ₄₀)	120*	10 (WQS)
3W8560HP	1	London Clay Formation	Chromium (VI)	10	3.4 (EQS)

*Clean up not carried out on TPH.

The Phase 2 results of the chemical analysis for soil leachate samples 2G4001SA at 0.1 m bgl, 2G4003DS at 0.1 m bgl and 1.00 m bgl, 2G4004DS at 0.1 m bgl, 0.5 m bgl, and 2.7 m bgl are not included in the SOCOTEC Ground Investigation Report or in accompanying AGS data format due to a laboratory error. All results received have been reported on.

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 Comparison of Groundwater results with the GAC

Groundwater sampling was carried out on nine exploratory hole from the Phase 2 and Phase 3B/3C investigations totalling 27 No. samples collected and analysed. Samples were screened against the EQS, DWS, WQS and WFD, exceedances of the aforementioned GACs are shown in **Table 5.4**, and **Table 5.5**.

Table 5.4: Groundwater Sample Exceedances of GAC.

BH ID and PSC Investigated	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC
3G4022DS	1.00 – 3.00 (River Terrace Deposits)	01/05/2024	Copper	4	1 (EQS)
			Zinc	13	10.9 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	290	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	110	
		14/05/2024	Chromium (VI)	6	3.4 (EQS)
			Copper	4	1 (EQS)
			Zinc	25	10.9 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	50	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	70	
3G4037DS	3.00 – 6.00 (River Terrace Deposits and Earnley Sand Formation)	30/04/2024	Cadmium	0.13	0.08 (EQS)
			Lead	3	1.2 (EQS)
			Nickel	9	4 (EQS)
			Zinc	18	10.9 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	440	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	580	
		15/05/2024	Copper	3	1 (EQS)
			Nickel	12	4 (EQS)
			Zinc	30	10.9 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	360	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	330	
		31/05/2024	Copper	2	1 (EQS)
			Nickel	7	4 (EQS)
			Fluoranthene	0.07	0.0063 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	40	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	90	
3G4038DS	1.00 – 2.50 (River Terrace Deposits)	30/04/2023	TPH aliphatic (C ₈ -C ₄₀)	690	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	1,080	
		15/05/2024	Zinc	11	10.9 (EQS)

BH ID and PSC Investigated	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC
		31/05/2024	Cadmium	0.13	0.08 (EQS)
			Chromium Trivalent	13	4.7 (EQS)
			Copper	11	1 (EQS)
			Lead	16	1.2 (EQS)
					10 (DWS)
			Nickel	8	4 (EQS)
			Zinc	44	10.9 (EQS)
			Fluoranthene	0.03	0.0063 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	10	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)		
3W8534DS	2.00 – 3.00 (River Terrace Deposits)	24/04/2024	Nickel	8	4 (EQS)
			Fluoranthene	1.85	0.0063 (EQS)
			Benzo(b)fluoranthene	1.71	0.017 (EQS)
					0.1 (DWS)
			Benzo(a)pyrene	1.18	0.00017 (EQS)
					0.01 (DWS)
			TPH aliphatic (C ₈ -C ₄₀)	1,380	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	3,300	
		14/05/2024	Copper	6	1 (EQS)
			Nickel	8	4 (EQS)
			TPH aliphatic (C ₈ -C ₄₀)	690	10 (WQS)
3W8539DS	1.00 – 2.00 (River Terrace Deposits)	24/04/2024	Zinc	26	10.9 (EQS)
			Ammonium (NH ₄)	6,668.9	500 (DWS)
			Total Ammonia (N)	5,196	200 – 600 (WFD)
			TPH aromatic (C ₈ -C ₄₀)	20	10 (WQS)
		01/05/2024	Ammonium (NH ₄)	5,4390.1	500 (DWS)
			Total Ammonia (N)	4,200	200 – 600 (WFD)
			Nickel	6	4 (EQS)
			Zinc	17	10.9 (EQS)
			Anthracene	0.11	0.1 (EQS)
			Fluoranthene	0.42	0.0063 (EQS)
			Benzo(b)fluoranthene	0.43	0.017 (EQS)

BH ID and PSC Investigated	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC
					0.1 (DWS)
			Benzo(k)fluoranthene	0.23	0.017 (EQS)
					0.1 (DWS)
			Benzo(a)pyrene	0.5	0.00017 (EQS)
					0.01 (DWS)
			Indeno(1,2,3-c,d)pyrene	0.24	0.1 (DWS)
			TPH aliphatic (C ₈ -C ₄₀)	450	10 (WQS)
			TPH aromatic (C ₈ -C ₄₀)	180	
		14/05/2024	Nickel	5	4 (EQS)
			Ammonium (NH ₄)	5,767.9	500 (DWS)
			Total Ammonia (N)	4,496	200 – 600 (WFD)
			TPH aromatic (C ₈ -C ₄₀)	10*	10 (WQS)

*TPH clean up not carried out.

Table 5.5: Groundwater Exceedances of GAC at Trenchless Crossings

BH ID	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC (µg/l)*
3W8529SA	5.50 – 11.00 (Wittering Formation and Whitecliff Sand Member)	19/06/2024	Nickel	5	4 (EQS)
			Zinc	43	10.9 (EQS)
		02/07/2024	Nickel	10	4 (EQS)
			Nickel	15	4 (EQS)
			Zinc	11	10.9 (EQS)
			Fluoranthene	0.03	0.0063 (EQS)
3W8530SA	5.50 – 10.00 (Wittering Formation and Whitecliff Sand Member)	17/07/2024	TPH C ₆ -C ₄₀	350	10 (WQS)
			Nickel	36	4 (EQS)
					20 (DWS)
			Zinc	72	10.9 (EQS)
			Cyanide	20	1 (EQS)
		02/07/2024	Nickel	27	4 (EQS)
					20 (DWS)
			Zinc	23	10.9 (EQS)
			Anthracene	0.14	0.1 (EQS)
			Fluoranthene	0.18	0.0063 (EQS)

BH ID	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC (µg/l)*
3W8535SA	6.50 – 12.50 (Wittering Formation and Whitecliff Sand Member)	28/05/2024	Zinc	18	10.9 (EQS)
3W8536SA	11.50 – 17.00 (Whitecliff Sand Member)	01/05/2024	Manganese	490	123 (EQS) 50 (DWS)
			TPH Aliphatics C ₈ -C ₄₀	110	10 (WQS)
			TPH Aromatics C ₈ -C ₄₀	140	
			E. Coli	2	0* (DWS)
			Faecal Coliforms	0	N/A
			Faecal Streptococci	0	
			Total Coliforms	410	
		29/05/2024	Manganese	480	123 (EQS) 50 (DWS)
			Iron	6,370	1000 (EQS) 200 (DWS)
			Zinc	25	10.9 (EQS)
			TPH aliphatic (C ₈ - C ₄₀)	10	10 (WQS)
			TPH aromatic (C ₈ - C ₄₀)	40	
			E. Coli	2	0* (DWS)
			Faecal Coliforms	44	N/A
			Faecal Streptococci	0	
			Total Coliforms	70	
		24/04/2024	Manganese	400	123 (EQS) 50 (DWS)
			E. Coli	2*	0* (DWS)
			Faecal Coliforms	48*	N/A
			Faecal Streptococci	90*	
			Total Coliforms	230*	
3G4102SA	3.50 – 13.00 (River Terrace Deposits and Wittering Formation)	30/04/2024	Zinc	17	10.9 (EQS)
		15/05/2024	Zinc	13	10.9 (EQS)
		31/05/2024	Cadmium	0.38	0.08 (EQS)
			Chromium (III)	22	4.7 (EQS)
			Copper	29	1 (EQS)

BH ID	Response Zone (m bgl) and stratum targeted	Sample Date	Determinand	Concentration (µg/l)	GAC (µg/l)*
			Lead	32	1.2 (EQS)
					10 (DWS)
			Nickel	19	4 (EQS)
			Zinc	238	10.9 (EQS)
			Fluoranthene	0.03	0.0063 (EQS)
			Lead	32	1.2 (EQS)
					10 (DWS)
			TPH C ₆ -C ₄₀	190	10 (WQS)

*cfu/100ml

Bacterial testing for E. coli, faecal coliforms, faecal streptococci and total coliforms was completed in groundwater samples taken from 3W8536SA, located in the northwestern area of Wickham WTW. The highest colony forming units (cfu) of faecal coliforms and faecal streptococci were detected during the first monitoring round (24 April 2024). E.coli was detected during all three monitoring rounds exceeding the drinking water standards GAC. It should be noted that the DWS is for water to be used for human consumption. Groundwater taken in the environment will encounter pathogens therefore the results are for information on the pathogen concentrations.

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 Tentatively Identified Compounds (TICs)

Tentatively Identified Compounds (TICs) were tested on selected soil, soil leachate and groundwater samples (**Appendix D**). Low concentrations were detected, with the maximum recorded in soils at 0.095 mg/kg (pentane 2,2,4,4-tetramethyl), leachates at 0.079 mg/l (butane 2,2,3,3-tetramethyl) and 0.025 mg/l (neopentane) in groundwater samples.

5.4 Excavated Materials (Waste) Management

5.4.1 Hazardous Properties

Soil analytical results for the 13 No. soil samples collected during Phase 2, and the 59 No. samples collected during Phase 3B/3C have been screened 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). The screening was carried out using HazWasteOnline™ (HazWasteOnline, 2024). The results are provided in **Appendix E**.

Table 5.6 shows that two of the soil samples collected during Phase 3B/3C were identified to possess hazardous properties, and would, therefore, be classified as hazardous for waste disposal purposes. All remaining 70 samples were classified as non-hazardous for waste disposal purposes.

Table 5.6: Waste Classification – Hazardous Soils

BH ID	Sample Depth (m bgl)	Determinand	Concentration (mg//kg)	Hazardous Properties
3G4105SA (Within proposed IPS-G, located 20 m west of PSC 475)	1.0	TPH	1,920	HP7: Carcinogenic HP11: Mutagenic
3W8539DS (Advanced within PSC 46)	0.8*		1,350	

*Exploratory hole log noted black gravels with a hydrocarbon odour between 0.75 – 0.85 m bgl, full detail of olfactory and visual contamination found at location can be found in Section 4.2.3.

5.4.2 Waste Acceptance Criteria (WAC)

WAC testing was completed in accordance with BSEN 12457/2 on 44 No. of samples collected from the Phase 2 and Phase 3B/3C GIs. 42 No. samples were screened against landfill WAC limit values for an Inert Landfill. Samples flagged as Hazardous (**Table 5.6**) were screened against landfill WAC limit values for a stable non-reactive hazardous waste in a non-hazardous landfill and a hazardous landfill.

WAC testing carried out on the aforementioned hazardous soil samples found that one sample, 3G4105SA, 1.0 m bgl, did not meet the criteria for disposal as stable non-reactive hazardous waste in a non-hazardous landfill due to TOC and Loss on Ignition values exceeding hazardous landfill thresholds. This material would require treatment and reclassification prior to disposal. This exploratory hole is located on open ground (farmland) and is at the location of the proposed AGP IPS-G. The sample was taken from the River Terrace Deposits, but the borehole log records no evidence of visual or olfactory contamination.

The pH value for 3W8539DS 0.8m exceeded the criteria for disposal as stable non-reactive hazardous waste in a non-hazardous landfill. Further testing may be required to determine the possible disposal route.

For samples with non-hazardous properties screened against inert thresholds, 2 samples did not meet the criteria for disposal to Inert Landfill due to concentrations exceeding values for antimony, chloride, fluoride, sulphate and total dissolved solids (TDS). Further details are provided in **Table 5.7**.

Table 5.7: Inert Landfill Threshold Exceedances

BH ID	Sample Depth (m bgl)	Stratum	Determinand	Sample Concentration (mg//kg)	Inert Landfill threshold concentration (mg/kg)
3G4106SA	4.3	Earnley Sand Formation	Fluoride	13	10
3W8534DS (PSC 46 - Pit)	0.5	Made Ground	Antimony	0.09	0.06
			Chloride	910	800
			Sulphate	2,230	1,000
			Total Dissolved Solids	5,510	4,000

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.

5.5 Ground Gas Monitoring

The following Phase 2 monitoring wells 2G4000SA, 2G4001SA are no longer present within the DoL, and are excluded from the proceeding gas assessments. The number of gas monitoring rounds and dates for exploratory hole locations with installations from the Phase 2 and Phase 3B/3C GI are summarised within **Table 3.3**.

Ground Gas monitoring results are tabulated in the SOCOTEC's Ground Investigation Reports Phase 2 and Phase 3B/3C (SOCOTEC, 2023) (SOCOTEC, 2024) and presented in **Appendix F**.

The response zones for the following borehole locations and monitoring round dates were flooded, likely due to high groundwater levels:

- 3G4022DS, 3rd April 2024;
- 3G4037DS, 3rd April 2024;
- 3G4038DS, 30th April 2024, 15th May 2024 and 31st May 2024;
- 3W8529SA and 3W8530SA, 19th June 2024, 2nd July 2024 and 17th July 2024 ;
- 3W8534DS, 3rd April 2024;
- 3W8535SA and 3W8536SA, all monitoring rounds and;
- 3W8539DS, 3rd April 2024

In view of the flooded wells, the data from these monitoring rounds have been assessed as indicative as: *"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) for all monitoring wells are presented in the summary table in **Appendix F**. Peak concentrations (minimum for oxygen) are presented in the summary **Table 5.8**.

Ground gas data recorded at the 3G4105SA and 3G4106SA should be considered at the preconstruction phase due to the planned location of the AGP site IPS-G. In addition, ground gas data recorded at GI locations at proposed trenchless crossing locations (3W8529SA, 3W8530SA, 3W8535SA, 3W8536SA and 3G4102SA) should also be considered in construction at these locations, due to temporary deep excavations planned as reception pits for the trenchless crossings.

5.5.1 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 5.9**.

5.5.2 Gas Risk Assessment

Given that the IPS-G 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 CH₄ or CO₂ (%).

Using the recorded peak CO₂ concentration of 3% vol and worst-case flow rate of 30.7 l/h from wells situated within the proposed IPS-G site, the GSV comes equal to 0.921 l/h, which is characterised as Characteristic Situation (CS) 3.

It should be noted that this is based on a peak flow rate value recorded once on the 16/04/2024 from 3G4106SA. Generally, over the monitoring period, gas flow rates were recorded between 0 and 8.8 l/h. In addition, the response zones for both these wells were situated within natural deposits, Earnley Sand Formation sands and no Made Ground was recorded within the borehole logs. There are also no landfills or larger bodies of infilled land PSCs within 200 m which could act as a credible gas source. Carbon Dioxide levels from both wells were generally low, between 0.1% (v/v) and 3% (v/v) and methane was not detected above the detection limit of 0.1% (v/v) for all monitoring rounds. Therefore, although the GSV value categorises the site as CS3, due to a lack of a credible ground gas source gas protection measures are not considered necessary for the site.

Table 5.8: Ground Gas Monitoring Results Summary

Peak Gas Concentrations (minimum for Oxygen)								
Borehole	Response Zone and Stratum	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr
2G4003DS Adjacent to PSC 36 – Pit Gravel	1.0 – 4.00 (Earnley/Wittering Formations)	<0.1	10.9	7.1	1	1	1	-0.2
Locations targeting or within 100 m of PSCs								
3G4022DS Located just north of Wickham Golf Course carpark	1.00 – 3.00 (River Terrace Deposits)	<0.1	7.2	11.9	1	<10	1	0
3G4037DS Located 15 m southwest of PSC 475 (Garage)	3.00 – 5.50 (Earnley Sand Formation)	<0.1	2	14.5	0	<10	1	0
3G4038DS (footprint of PSC 475)	1.00 – 2.50 (Earnley Sand Formation)	<0.1	19.6*	<1*	0	10	1	42.6
3W8534DS Located within footprint of PSC 46	2.00 – 3.00 River Terrace Deposits	<0.1	9.1	4.7	11	<10	0	<0.1

Peak Gas Concentrations (minimum for Oxygen)								
Borehole	Response Zone and Stratum	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr
3W8539DS Located within footprint of PSC 46	1.00 – 2.00 (River Terrace Deposits)	<0.1	10.2	6	0	<10	1	0
IPS-G Locations								
3G4105SA Proposed IPS-G	7.50 – 11.00 (Earnley Sand Formation)	<0.1	3	13.1	21	<10	1	5.8
3G4106SA Located within footprint of IPS-G	2.50 – 10.00 (River Terrace Deposits into Earnley Sand Formation)	<0.1	2	14.2	10	<10	1	30.7
Trenchless Crossing – Hoads Hill								
3W8529SA Trenchless Crossing A32	5.50 – 11.00 Wittering Formation to Whitecliff Sand Member)	<0.1	2.2	17.5	0	<10	0	0

Peak Gas Concentrations (minimum for Oxygen)								
Borehole	Response Zone and Stratum	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr
3W8530SA Trenchless Crossing A32	5.50 – 10.00 Wittering Formation to Whitecliff Sand Member)	<0.1	3.7	16.3	10	<10	0	-0.8
Trenchless Crossing – River Meon								
3W8535SA Trenchless Crossing for the River Meon	6.50 – 12.00 Wittering Formation into Whitecliff Sand Member	<0.1	5.4	13.3	10	<10	0	<0.1
3W8536SA Trenchless Crossing of the River Meon. Also within footprint of PSC 485.	11.50 – 17.00 (Whitecliff Sand Member)	<0.1	1.1	11	0	<10	1	30.2
Trenchless Crossing – Winchester Road								
3G4102SA Trenchless crossing A334	3.50 – 13.00 (Wittering Formation)	<0.1	6.1	13.5	10	<10	1	30.7

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

*Concentrations are considered to be erroneous, result shown is what is recorded within the factual report and AGS data received.

Table 5.9: Exceedances of Gas Thresholds

Area	BH ID	CH ₄	CO ₂	O ₂	CO	H ₂ S	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 (LEL) ¹
Former Gravel pit (PSC 36)	2G4003DS	N/A	Yes	Yes	N/A	N/A	N/A
Wickham Golf Course Carpark	3G4022DS	N/A	Yes	Yes	N/A	N/A	N/A
Approximately 15 m southwest of PSC 475	3G4037DS	N/A	Yes	Yes	N/A	N/A	N/A
Garage (PSC 475)	3G4038DS	N/A	Yes	Yes	N/A	Yes - LTL	N/A
Trenchless crossing – Winchester Road	3G4102SA	N/A	Yes	Yes	N/A	N/A	N/A
IPS-G Location	3G4105SA	N/A	Yes	Yes	Yes - LTL	N/A	N/A
	3G4106SA	N/A	Yes	Yes	N/A	N/A	N/A
Trenchless Crossing – Hoads Hill	3W8529SA	N/A	Yes	Yes	N/A	N/A	N/A
	3W8530SA	N/A	Yes	Yes	N/A	N/A	N/A
Pit – Various (PSC 46)	3W8534DS	N/A	Yes	Yes	N/A	N/A	N/A
	3W8539DS	N/A	Yes	Yes	N/A	N/A	N/A
	3W8535SA	N/A	Yes	Yes	N/A	N/A	N/A

Area	BH ID	CH ₄	CO ₂	O ₂	CO	H ₂ S	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 (LEL) ¹
Trenchless Crossing – River Wallington	3W8536SA	N/A	Yes	Yes	N/A	N/A	N/A

LEL – Lower explosive limit, UEL – Upper explosive limit, STL – Short Term Limit (15-minute reference period), LTL – Long Term Limit (8-hour reference period)

¹ – dependant on constituents

N/A – not applicable as there is no exceedance

6 Land Contamination Risk Assessment Model

6.1 Approach and Revised 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). 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 allow for recommendations to be made based on the identification and assessment of potential contaminant linkages. A summary of the guidance for the assessment of land contamination and the approach developed and adopted by SSP is presented in the Summary Report HWTWRP Geotechnical and Geo-environmental Interpretative Summary Report (Ref. 710166-SWS-XX-XX-RP-GE-00100).

6.2 Potential Sources of Contamination

A summary of the on Site and off Site high-risk PSCs identified by the desk study in Section G and associated potential contaminants of concern (PCOC) are presented in **Tables A1 and A2 (Appendix A)**. The PSCs and GI data are discussed below:

6.2.1 Locations where PSCs were Identified

Wastewater Treatment Works (PSC 485)

Exploratory hole location 3W8536SA was completed within the Wickham Wastewater Treatment Works (WTW) (PSC 485) to a depth of 20.45 m bgl. This borehole was used to obtain ground condition information for the proposed reception shaft at the proposed trenchless crossing of the River Meon. Further details for the trenchless crossing is given in **Section 6.2.2**.

- Made Ground was encountered from ground level to a depth of 0.35 m bgl and is described as slightly gravelly, slightly sandy, silty clay with gravels comprising chert and brick and rare fragments of glass, ceramic and metal. Superficial deposits (River Terrace Deposits) were present to 3.60 m bgl and were underlain by the Whitecliff Sand Member to the termination depth.
- Soil chemical analysis recorded no exceedances of the commercial land use GAC nor any detection of asbestos in Made Ground. Soil leachate analysis (2:1) did not yield any exceedances of the DWS or EQS screening criteria. Three groundwater samples were collected (response zone in the Whitecliff Sand Member) and groundwater analysis yielded DWS and EQS exceedances of manganese, iron and zinc. TPH Aliphatics and Aromatics C₈ – C₄₀ were also detected in groundwater sampling with concentrations between 50 µg/l and 250 µg/l.
- Bacterial testing was carried out on one soil sample (1.00 m bgl) and detected total coliforms at a concentration of 50 cfu/g. Faecal Streptococci and E.Coli were not detected above the detection limit of <10 cfu/g.
- All three groundwater samples were tested for E.coli, Faecal Streptococci, Faecal coliforms and Total Coliforms. The highest detections recorded were 2, 90, 48, and 410 cfu/100 ml respectively.
- Ground gas monitoring data obtained over a six-month period recorded from 3W8536SA showed that methane concentrations were below the LEL, whereas carbon dioxide levels exceeded long-term WELs. A low oxygen concentration (11% v/v) was recorded during one monitoring round (24/04/2024), whilst oxygen concentrations ranged between 19.4 and 20.4 % (v/v). Notably a high gas flow rate of 30.2 l/h was also recorded on the 29/05/2024, however the response zone was flooded during this monitoring round, and it has, therefore, been discounted at this location.

Potentially Infilled Ground (Gravel Pits) (PSCs 36 and 52)

Exploratory hole locations 2G4002DS, 2G4003DS and 2G4004DS were completed adjacent to the gravel pits (PSC36 and 52) to a maximum depth of 4.00 m bgl.

- Made Ground was encountered in all three boreholes to a depth of 0.40 m bgl, and is described as sandy gravelly clay with gravels comprising brick, chalk, charcoal, and chert. Superficial deposits (River Terrace Deposits) were encountered below Made Ground in all three boreholes. All GI locations were underlain by the Earnley and Wittering Formations.
- Soil chemical analysis recorded no exceedances of the commercial land use GAC nor any detection of asbestos in Made Ground. Due to a laboratory error soil leachate (2:1) results were only received for one sample from 2G4003DS (3.7 m bgl) despite eight others being scheduled; this sample had one exceedance of the EQS GAC for chromium (VI) and withdrawn WQS for TPH. Without additional sampling, it is difficult to assess the risks associated with contaminant transfer from soils to groundwater.
- A standpipe was installed within borehole 2G4003DS, however, the well was dry during monitoring and there are no groundwater samples for this location.
- Ground gas monitoring data for 2G4003DS recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs. Low oxygen levels (lowest 7.1% v/v) were also encountered during monitoring.

Pit – Various (PSC 46)

Exploratory hole locations 3W8534DS and 3W8539DS were completed in the eastern corner of the pit (PSC 46) present within the northern part of Wickham Golf Course to a maximum depth of 4.00 m bgl.

- Made Ground was encountered in both locations from surface level to a maximum depth of to 2.20 m bgl (3W8534DS), and described as sandy very gravelly clays. In 3W8539DS, a 0.10 m thick layer of black sandy gravel was noted at the base of the Made Ground (0.75m bgl), which was also noted to have a slight hydrocarbon odour. Gravels comprised chert, brick, chalk, concrete and macadam. Superficial deposits (River Terrace Deposits) were encountered below Made Ground to a maximum depth of 3.15 m bgl. The Earnley Sand Formation underlies the River Terrace Deposits only within 3W8534DS.
- Soil chemical analysis recorded no exceedances of the commercial land use GAC nor any detection of asbestos in Made Ground. One sample of Made Ground collected from 3W8539DS (0.80 m bgl) yielded a hazardous properties classification due to the presence of TPH.
- Groundwater concentrations of anthracene, copper, nickel, fluoranthene and zinc exceeded the EQS GAC, whilst concentrations of ammonium and indeno(1,2,3-cd)pyrene exceeded DWS GAC. Concentrations of benzo(b)fluoranthene, benzo(k)fluoranthene and benzo(a)pyrene exceeded both their DWS and EQS GACs. Two Total Ammonia exceedances were also recorded within groundwater samples obtained from 3W8539DS (maximum concentration 5,196 µg/l). TPH Aliphatics and Aromatics C₈ – C₄₀ were encountered in samples collected from both locations at concentrations between 20 µg/l and 4,680 µg/l and above the withdrawn WQS).
- The slight hydrocarbon odour noted in the borehole log, the hazardous properties classification at 0.8m bgl (3W8539DS), and detections of TPH in groundwater samples suggests further TPH is likely to be encountered within PSC 46.
- Ground gas monitoring data for both locations recorded methane concentrations <0.1% (v/v) and below the LEL whereas carbon dioxide levels exceeded both long and short term WELs. Low oxygen levels (5.2% (v/v)) were encountered during the monitoring of these locations. Carbon Dioxide concentrations within both of these wells ranged between 3% (v/v) and 10.2% (v/v). Degradation of TPH could be potentially contributing to carbon dioxide generation within the wells.

Garage (PSC 475)

Exploratory hole location 3G4038DS was completed within the footprint of the Garage (PSC 475) to a depth of 6.45 m bgl.

- Made Ground was encountered from surface level to 0.30 m bgl and is described as clayey gravels comprised of chert and brick. The Earnley Sand Formation underlies the Made Ground and is present to the termination depth.
- Soil chemical analysis recorded no exceedances of the commercial land use GAC, though asbestos was detected in one sample of Made Ground, collected at 0.10 m bgl, and was identified as Chrysotile with a quantification percentage of 0.009%.
- Soil leachate (2:1) results for soil sample 3.8m bgl recorded exceedances of ammonium, total ammonia and TPH. Groundwater sampling yielded TPH Aliphatics and Aromatics C₈ – C₄₀ exceeded the withdrawn WQS, with concentrations of cadmium, chromium III, copper, fluoranthene, nickel and zinc exceeding the EQS GAC. Lead concentrations also exceeded both the EQS and DWS GAC. The source of the TPH, metals and PAHs within groundwater may be related the PSCs nearby, in particular, the vehicle repair garage (PSC 475).
- Ground gas monitoring carried out at the location recorded methane concentration <0.1% (v/v) and below the LEL, whereas carbon dioxide levels exceeded both long and short term WELs. Low oxygen levels were also encountered. One monitoring round yielded a concentration of hydrogen sulphide that exceeded the LTL. Gas flow was recorded at this location with a maximum peak reading of 42.6 l/hr (15 May 2024). These readings coincide with a flooded well which is likely to affect gas readings.

6.2.2 Locations where Unexpected Contamination Detected

Exploratory Hole locations 3G4022DS and 3G4037DS

Exploratory hole locations were not advanced to specifically target PSCs; however, PSC 475 (vehicle maintenance garage) is approximately 20 m north of 3G4037DS. PSC 34 (nursery) is also within 50 m of GI location 3G4037DS.

- 3G4022DS only encountered River Terrace Deposits from surface level to the termination depth of 3.60 m bgl. 3G4037DS encountered Made Ground to 1.20 m bgl, as sandy gravels becoming clay at the base, with gravels consist of brick, chert and macadam. Underlying Made Ground is the Earnley Sand Formation, present to 6.00 m bgl, where the borehole terminates.
- Soil chemical analysis yielded no exceedances of the commercial land use GAC, nor any detections of asbestos. Soil leachate (2:1) analysis also yielded EQS exceedances of copper, chromium (VI) and lead, DWS exceedances of ammonium, and one TPH WQS exceedance. Ammonia was also exceeded the WFD GAC.
- Groundwater samples were obtained from both locations and encountered EQS exceedances of cadmium, copper, chromium (VI), lead, nickel and zinc as well as one exceedances of fluoranthene.
- TPH Aliphatics and Aromatics C₈ – C₄₀ exceedances of the withdrawn WQS were encountered in groundwater samples at concentrations between 120 µg/l to 1,020 µg/l.
- Ground gas monitoring was carried out at both locations and carbon dioxide was found to exceed both short and long term WELs. Low oxygen levels were also 11.9% and 14.1% respectively in several monitoring rounds.

Trenchless Crossing (River Meon, 3W8535SA and 3W8536SA)

3W8536SA was advanced to investigate this trenchless crossing location however, due to its presence within the footprint of PSC 485 results pertaining have been discussed in Section 6.2.1.

The below details what was encountered within 3W8535SA.

- Soil chemical analysis yielded no exceedances of the commercial land use GAC, nor any detections of asbestos. Soil leachate (2:1) results for soil sample 3.8m bgl and 4.5 m bgl recorded exceedances of TPH above the GAC (withdrawn WQS).
- Groundwater samples obtained from the trenchless crossing for the River Meon (southern point) contained groundwater concentrations exceeding the EQS for zinc. The source of these exceedances is unconfirmed.
- Ground gas monitoring carried out at the location recorded methane concentrations <0.1% v/v and below the LEL, whereas carbon dioxide concentrations exceeded both long and short term WELs. Low oxygen concentrations were also encountered (13.3% (v/v), 17/07/2024).

Trenchless Crossing Location (A32, Hoads Hill, 3W8529SA and 3W8530SA)

- Though not advanced to target any PSCs; soil leachate testing carried out on samples yielded EQS exceedances of cadmium, copper, nickel and zinc; DWS exceedances of ammonium, nickel, sulphate and selenium, and one WFD exceedance of total ammonia. TPH concentrations exceeded the GAC (withdrawn WQS). The majority of these exceedances were recorded in 3W8529SA.
- Groundwater samples yielded EQS exceedances of anthracene, cyanide, fluoranthene, nickel and zinc with one DWS exceedance of nickel. TPH concentrations in 3W8529SA exceeded the GAC (withdrawn WQS). The source of these concentrations is unknown.
- Carbon dioxide concentrations exceeded both short- and long-term WELs. Oxygen concentrations detected at or below 19% were recorded at both locations on two monitoring rounds. However, the response zones for each borehole during rounds where water levels were recorded, were flooded. The data from these monitoring rounds have been assessed as indicative.

Trenchless Crossing Location (A334, Winchester Road, 3G4102SA)

Investigating the A334 Winchester Road trenchless crossing borehole 3G4102SA is paired with 3H4600SA. Borehole 3H4600SA is within Section H, and the results are reported in the Section H GIR report and should be referred to during further assessment of this trenchless crossing location. This report only focuses on the results from 3G4102SA.

- Soil chemical analysis yielded no exceedances of the commercial land use GAC, nor any detections of asbestos.
- Groundwater samples yielded EQS exceedances of cadmium, copper, chromium (III), lead, nickel, and zinc with DWS exceedances of lead TPH concentrations exceeded the GAC (withdrawn WQS) during one monitoring round. A former gravel pit (PSC 45) is located approximately 90 m southeast of this location, and possible ground conditions at the former pit could be potentially contributing to the surrounding groundwater quality.
- Carbon dioxide concentrations exceeded both short- and long-term WELs. Oxygen concentrations <19 % were recorded during three of the six monitoring rounds, the lowest concentration recorded at 13.5% coinciding with a carbon monoxide concentration of 10 ppm. The recorded gas flow rates at this well were high and at the time of report production are being queried with the GI contractor.

6.2.3 Proposed IPS-G

Exploratory hole locations 3G4105SA and 3G4106SA were completed within an area identified for above ground plant IPS-G. Geo-environmental soil samples were also collected at infiltration test locations 3G7525IT and 3G7530IT.

- Soil chemical analysis yielded no exceedances of the commercial land use GAC, nor any detections of asbestos.
- 3G4105SA yielded one hazardous properties classification for a sample at 1.0 m bgl (River Terrace) due to TPH concentrations. The borehole log records no evidence of visual or olfactory contamination.

- Groundwater sampling at locations was not carried out due to wells being dry during monitoring rounds.
- Methane concentrations were <0.1% v/v and below the LEL during the 6-month monitoring period. Carbon dioxide concentration exceeded both long and short term WELs. Oxygen concentrations <19% were recorded in both monitoring wells in 3 or more monitoring rounds. Carbon monoxide is also noted to exceed its LTL on one monitoring occasion (31/05/2024) within 3G4105SA, though marginally with a concentration of 21 ppm being recorded. Gas flow rates were recorded in both wells with the highest peak recorded in 3G4106SA.
- A gas GSV has been calculated from gas data collected from these wells as the proposed IPS-G permanent building structures are proposed for the IPS-G. A gas GSV value of 0.921 l/hr (using maximum peak carbon dioxide concentrations and peak flow) has been derived. The calculated GSV has given the proposed IPS-G site a CS3 classification.

6.3 Identification of Potential Pathways

During and post construction of the new pipeline in Section G and the AGP IPS-G, 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-G), voids and below ground chambers / receptor pits (pipeline).
- 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 as previously identified in the preliminary risk assessment have been further assessed following Phase 2 GI data:

- Construction workers.
- Future site users (workers and maintenance workers).
- Adjacent land users (applicable to PSCs within DoL only, for example, garage users, golf course users)
- On Site existing and future property (buildings, below ground chambers / receptor pits and buried services within IPS-G).
- Surface water (River Meon and an unnamed drains across the golf course) (applicable to PSCs within the DoL only).
- Groundwater (Secondary A Aquifers).
- Ecological receptors (applicable to PSCs within the DoL only).

Risks to off Site receptors such as adjacent land users, ecological receptors (statutory designated areas and ancient woodlands within 250 m of the Site), and surface water bodies within 250 m of the Site have not been considered for the PSCs 36 and 52 targeted during Phase 2 GI, or PSCs 46 and 475 targeted during the Phase 3B/3C GI in Section G.

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 Proposed Development 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 **Table H1.0 (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 classification 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, if the risk rating for Construction, maintenance workers and future site users is Moderate for an inhalation pathway and is shown in **Table 6.1**. The dermal contact and ingestion pathway risk rating is lower as presented in **Appendix H** and is, therefore, not presented in **Table 6.1** but is expanded upon further in **Appendix H**.

Table 6.1: Summary of Risk Classification for Construction and Maintenance Activities for Areas Investigated in Section G

GI Locations/Location Description	Contaminants encountered ¹	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
Phase 2 PSCs Targeted							
2G4002DS, 2G4003DS and 2G4004DS Investigating PSCs 36, 37 & 52 (Pit-Gravel) PSCs 36 and 52 are located along the southwestern boundary of Wickham Golf Course and are within the 50m buffer of DoL (approximately 10m from the DoL at closest point). The northeastern area of PSC 37 encroaches the 50m buffer of the DoL. A small (unnamed) surface watercourse potentially crossing the DoL.	Made Ground to 0.4m bgl. No exceedances of commercial GAC protective of human health. Soil leachate concentration exceedances of GAC for chromium (VI) and TPH (only one sample tested). No groundwater data. Carbon dioxide concentrations exceeded short and long-term WELs. Low oxygen concentrations recorded. Potential for further ground gas generation from unknown fill composition.	Moderate/Low <i>(Inhalation Pathway)</i>	Low	Low	Moderate/Low	Moderate/Low	Low
IPS-G Location							
3G4105SA and 3G106SA Location of Proposed IPS-G.	3G4105SA, 1.00 m bgl classified as hazardous due to the presence of TPH at concentrations above 1,000 mg/kg. No soil leachate testing exceedances of GAC protective of groundwater and / or surface waters. No groundwater samples (dry during sampling). Carbon dioxide concentrations exceeded short and long-term WELs. Low oxygen concentration detected during monitoring. Carbon monoxide on one monitoring occasion exceeded its LEL. High gas flow rates recorded in wells have yielded a CS3 classification for the site.	Moderate	Low	Moderate	Moderate/Low	Moderate/Low	N/A
Phase 3B/3C Exploratory Locations targeting PSCs or within a 100 m radius of PSCs							
3W8534DS and 3W8539DS Investigation PSC 46 Wickham Golf course to the south of the driving range.	No exceedances of commercial GAC protective of human health. Hydrocarbon odour noted in 3W8539DS at the base of Made Ground, hazardous properties classification (3W8539DS 0.8m TPH). Groundwater concentrations of PAHs, copper, nickel and zinc exceeded the EQS GAC, ammonium (NH4) and indeno(1,2,3-cd)pyrene exceeded DWS GAC. PAHs exceeded both their DWS and EQS GACs. High total ammonia concentration in 3W8539DS (max. 5,196 µg/l). TPH concentrations exceed GAC (withdrawn WQS). Carbon dioxide concentrations exceeded both short- and long-term WELs. Low levels of oxygen encountered during monitoring.	Moderate <i>(Dermal, ingestion and inhalation pathway)</i>	Moderate/Low	Low	Moderate	Moderate	Low

GI Locations/Location Description	Contaminants encountered ¹	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
3G4038DS PSC 475 Garage, just southwest of IPS-G.	No exceedances of commercial GAC protective of human health were encountered within soil samples collected. Chrysotile detection quantified at 0.009%. Exceedances of GAC protective of groundwater and/or surface waters detected for total TPH, cadmium, chromium III, copper, fluoranthene, lead, nickel and zinc. Ammonia was also found to exceed the WFD GAC. Carbon dioxide levels exceeded both short- and long-term WELs. Low levels of oxygen encountered during monitoring. A high flow rate was also recorded and an LEL exceedance for hydrogen sulphide.	High <i>(Direct dermal contact, ingestion and inhalation of dusts))</i>	Moderate	Low	Low	Moderate	Low
3G4022DS and 3G4037DS No PSCs targeted included as part of PSC 475 (Garage) as within 100m.	Soil leachate (2:1) analysis yielded EQS exceedances of copper, chromium (VI) and lead; DWS exceedances of ammonium (NH4); and one TPH WQS exceedance. Ammonia was also found to exceed the WFD GAC. Groundwater samples encountered EQS exceedances of cadmium, copper, chromium (VI), lead, nickel and zinc as well as one exceedances of fluoranthene. TPH Aliphatics and Aromatics C8 – C40 exceedances of the withdrawn WQS. Ground gas monitoring was carried out at both locations, and carbon dioxide was found to exceed both short and long term WELs. Low oxygen levels also recorded.						
Trenchless Crossing Locations							
3W8529SA and 3W8530SA No PSCs targeted Proposed trenchless crossing of the A32, Hoads Hill	No exceedances of commercial GAC protective of human health. Soil leachate results exceed EQS for cadmium, copper, nickel and zinc; DWS for ammonium (NH4), nickel, sulphate and selenium; WFD for total ammonia; GAC (withdrawn WQS) for TPH. The majority of these exceedances were recorded in 3W8529SA. Groundwater exceedance of EQS for anthracene, cyanide, fluoranthene, nickel and zinc; DWS exceedance for nickel; GAC (withdrawn WQS) exceedance for TPH concentrations in 3W8529SA.	Moderate <i>(Inhalation Pathway)</i>	Low	Low	Moderate	Moderate	Very Low

GI Locations/Location Description	Contaminants encountered ¹	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
	Carbon dioxide concentrations exceeded both short- and long-term WELs. Oxygen concentrations detected at or below 19%*.						
3W8535SA Proposed location of trenchless crossing for River Meon	No Made Ground encountered. No exceedances of commercial GAC protective of human health. Soil leachate results exceed GAC (withdrawn WQS) for TPH. Groundwater exceedance of EQS for zinc. Carbon dioxide concentrations exceeded both long and short term WELs. Low oxygen concentrations were also recorded.	Moderate <i>(Inhalation Pathway)</i>	Low	Low	Moderate/Low	Moderate	Very low
3W8536SA Investigating PSC 485 (Wickham WTW) at proposed location of a temporary shaft for the trenchless crossing of the River Meon.	Made Ground to 0.35 m bgl. No exceedances of commercial GAC protective of human health. Groundwater concentrations exceedances of GAC (DWS and EQS) for manganese, iron and zinc. TPH Aliphatics and Aromatics C8 – C40 concentrations exceeds GAC (withdrawn WQS). E.coli detected in groundwater samples. Carbon dioxide concentrations exceeded long-term WELs. One low oxygen concentration recorded during monitoring. Wells were flooded during monitoring rounds.	Moderate <i>(Inhalation pathway)</i>	Low	Low	Moderate/Low	Moderate	Very low
3G4102SA No PSCs Trenchless Crossing of the A334, Winchester Road	No exceedances of commercial GAC protective of human health. Groundwater concentrations exceedances of EQS for cadmium, copper, chromium (III), lead, nickel, and zinc; DWS exceedances of lead; GAC (withdrawn WQS) exceedances for TPH concentrations (one monitoring round). Carbon dioxide levels exceeded both short- and long-term WELs. Low oxygen concentration encountered during monitoring (<19 %). Carbon monoxide concentration recorded at 10 ppm. High recorded gas flow rates.	Moderate <i>(Inhalation pathway)</i>	Low	Low	Moderate/Low	Moderate	Very Low

¹ More details are provided in Risk Assessment Tables in Appendix H
* The response zones for each borehole during rounds where water levels were recorded, were flooded, gas data is used as indicative.

6.6 Summary

The Phase 2 GI across Section G focused on the infilled gravel pits within the 50 m buffer of the current Section G DoL (PSCs 36 and 52). The Phase 3B/3C GI targeted two additional PSCs, an additional gravel pit (PSC 46) and a garage (PSC 475), as well as an area in the northwestern part of the operational Wickham WTW (PSC 485) within the DoL.

Three trenchless crossing locations were also investigated: two proposed road crossings and one proposed watercourse crossing.

Based on the generic quantitative risk assessment the following risks were determined:

- A Moderate risk has been identified for impact to construction and maintenance workers and a Moderate / Low risk has been identified to adjacent land users due to recorded groundwater exceedances via the ingestion and dermal contact pathways.
- A High risk can be considered applicable for soils within the vicinity of 3G4038DS due to the identification of asbestos.
- A Moderate to Moderate / Low risk was identified for groundwater and surface waters at trenchless crossing locations due to the exceedances of the GAC across all borehole locations, and by applying a conservative approach due to absence of a confirmed source of contamination.
- A Moderate risk has been identified for impact to construction, maintenance workers and future site users at IPS-G and trenchless crossing locations via the inhalation pathway, where temporary reception pits are due to be advanced. This based on the findings of ground gas monitoring which showed carbon dioxide exceedances for short and long-term WELs, isolated carbon monoxide readings exceeding LELs and depleted oxygen levels.
- All other potential contaminant linkages were either identified as Low or Very Low.

7 Geotechnical Testing and Assessment for Section G boreholes

7.1 Geotechnical Testing and Assessment Summary Tables for Section G boreholes

The below **Table 7.1** shows various geotechnical tests per strata specific to Section G. The test results recorded within the strata are similar to those recorded for the same strata in adjacent sections.

Table 7.1: Geotechnical Testing and Assessment summary for Section G boreholes

	Geotechnical Property																						
Strata	Moisture (%)			Plasticity Index (%)			Particle Size Distribution (Average of values)		Triaxial Shear Strength (kPa)			SPT Results (uncorrected value) N			Uniaxial Compressive Strength, UCS (MPa)		Point Load Index Testing , PLT (MPa)		Compaction – Max Dry Density (Mg/m3)			Linear (Bulk) Density (Mg/m3)	
Made Ground	Min	Av	Max	Min	Av	Max	Particle Size	(%)	None	4	-	28	None	None	None	1.78 (14)	1.78 (14)	1.78 (14)	None				
							Cobbles	3															
							Gravel :	60															
	11	16	20	17	24	29	Sand :	14															
							Silt :	15															
							Clay	8															
Total No. of tests	5			3			4		0			2			0		0		1			0	
Alluvium	Min	Av	Max	Min	Av	Max	Particle Size	(%)	None	Min	Av	Max	None	None	None	None	None	None					
							Cobbles	None															
							Gravel :																
	None			Sand :	None	None																	
	Silt :																						
	Clay :																						
Total No. of tests	0			0			0		0			0			0		0		0				
Head Deposits	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	None	None	None	None					
							Cobbles	0															
							Gravel :	36															
	12	20	28	26	27	27	Sand :	11	None			6	6	6									
							Silt :	31															
							Clay	22															
Total No. of tests	2			2			2		0			1			0		0		0				
River Terrace Deposits	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	None	None	Min	Av	Max	None			
							Cobbles	2															
							Gravel :	53															
	6	16	25	11	24	34	Sand :	26	None			4	26	50**									
							Silt :	10															
							Clay :	9															
Total No. of tests	7			8			12		0			18			0		0		2			0	

	Geotechnical Property																							
Strata	Moisture (%)			Plasticity Index (%)			Particle Size Distribution (Average of values)		Triaxial Shear Strength (kPa)			SPT Results (uncorrected value) N			Uniaxial Compressive Strength, UCS (MPa)		Point Load Index Testing , PLT (MPa)		Compaction – Max Dry Density (Mg/m3)			Linear (Bulk) Density (Mg/m3)		
Earnley Sand Formation	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	None	None	Min	Av	Max	None				
							Cobbles	0																
							Gravel:	10																
	14	26	37	15	29	45	Sand:	44	None	12	30	50	1.80 (13)	1.80 (13)			1.80 (13)							
							Silt:	26																
							Clay:	20																
Total No. of tests	15			11			10		0			44			0		0		1			0		
Wittering Formation	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	None	None	None	Min	Av	Max	1.97	2.04	2.11	
							Cobbles	0																
							Gravel:	0																
	17	26	34	20	37	53	Sand:	36	55	100	280	6	29	50										
							Silt:	38																
							Clay:	26																
Total No. of tests	14			11			9		6			19			0		0		0			6		
London Clay Formation - Whitecliff Sand Member	Min	Av	Max	Min	Av	Max	Particle Size	(%)	None	Min	Av	Max ***	None	None	None	Min	Av	Max	None					
							Cobbles	0																
							Gravel:	4																
	25	26	26	None	Sand:	68	25	43		>50	1.64 (16)	1.64 (16)				1.64 (16)								
					Silt:	22																		
					Clay:	6																		
Total No. of tests	2			0			5		0			33			0		0		1			0		
London Clay Formation	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	None	None	Min	Av	Max	None				
							Cobbles	0																
							Gravel:	0																
	22	27	30	28	34	46	Sand:	22	210	325	570	28	32	34			1.64 (20)	1.64 (20)	1.64 (20)					
							Silt:	49																
							Clay:	29																
Total No. of tests	4			4			3		4			5			0		0		1			0		

	Geotechnical Property								
Strata	Moisture (%)	Plasticity Index (%)	Particle Size Distribution (Average of values)	Triaxial Shear Strength (kPa)	SPT Results (uncorrected value) N	Uniaxial Compressive Strength, UCS (MPa)	Point Load Index Testing , PLT (MPa)	Compaction – Max Dry Density (Mg/m3)	Linear (Bulk) Density (Mg/m3)

** River Terrace Deposits, 3No. SPTs were a refusal due to hard material (likely cobbles/very dense gravel). *** For London Clay Formation - Whitecliff Sand Member 13No SPTs and did not achieve a full 0.45m penetration depth due to dense -very dense sands

Table 7.2: Additional Geochemical Testing

Geology	Mass loss on Ignition (%)	Organic Matter Content (%)	BRE SD1 values ¹				
Made Ground (MGR)	None	None	Test type	Min	Max	Characteristic Value	
			Water soluble SO4 (mg/l)	Below limit of detection	10	<500	
			Acid soluble SO4 (%)	Below limit of detection	0.06	0.06	
			Total Sulphur (%)	Below limit of detection	0.03	0.03	
			Total Potential Sulphate (%)	Below limit of detection	0.09	<0.24	
			pH	7.8	8.2	7.8	
No. Tests	0	0	2				
Alluvium (ALV)	None	None	Test type	Min	Max	Characteristic Value	
			Water soluble SO4 (mg/l)	None			
			Acid soluble SO4 (%)				
			Total Sulphur (%)				
			Total Potential Sulphate (%)				
			pH				
No. Tests	0	0	0				
Head Deposits (HEAD)	None	None	Test type	Min	Max	Characteristic Value	
			Water soluble SO4 (mg/l)	Below limit of detection	Below limit of detection	<500	
			Acid soluble SO4 (%)	0.04	0.04	0.04	
			Total Sulphur (%)	0.04	0.04	0.04	
			Total Potential Sulphate (%)	0.12	0.12	<0.24	
			pH	8.0	8.0	8.0	
No. Tests	0	0	1				
River Terrace Deposits (RTD)	None	None	Test type	Min	Max	Characteristic Value	
			Water soluble SO4 (mg/l)	Below limit of detection	70	<500	
			Acid soluble SO4 (%)	Below limit of detection	0.01	0.01	
			Total Sulphur (%)	Below limit of detection	Below limit of detection	<0.01	
			Total Potential Sulphate (%)	Below limit of detection	Below limit of detection	<0.24	
			pH	6.9	8	6.9	
No. Tests	0	0	3				
Earnley Sand Formation (EA)	None	None	Test type	Min	Max	Characteristic Value	
			Water soluble SO4 (mg/l)	Below limit of detection	Below Level of Detection	<500	

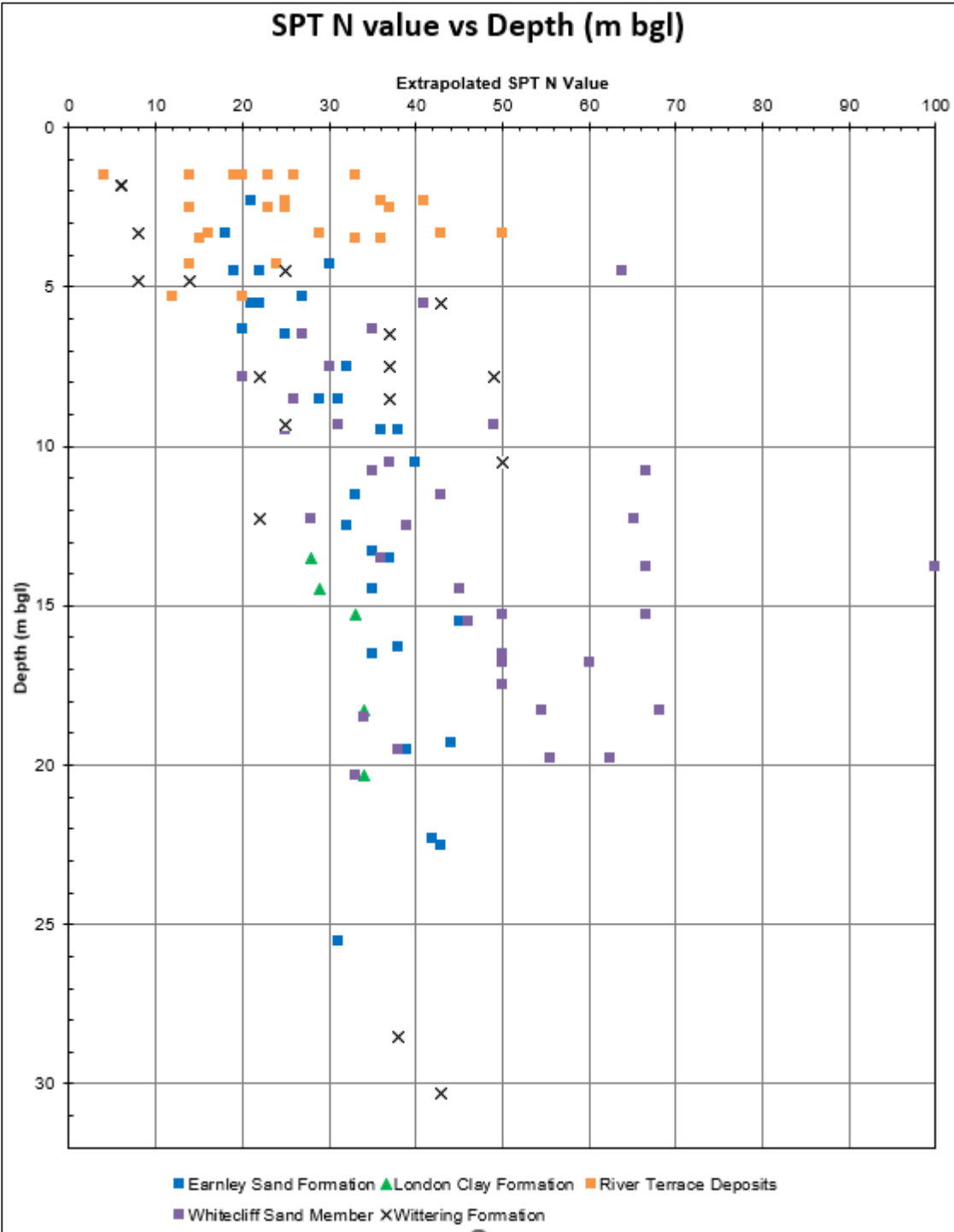
			Acid soluble SO4 (%)	Below limit of detection	0.05	0.05
			Total Sulphur (%)	Below limit of detection	0.02	0.02
			Total Potential Sulphate (%)	Below limit of detection	0.06	<0.24
			pH	5.2	11.2	6.0
No. Tests	0	0	7			
Wittering Formation (WTT)	1.5	None	Test type	Min	Max	Characteristic Value
			Water soluble SO4 (mg/l)	Below limit of detection	650	500 - 1500
			Acid soluble SO4 (%)	Below limit of detection	0.19	0.19
			Total Sulphur (%)	Below limit of detection	0.59	0.57
			Total Potential Sulphate (%)	Below Limit of Detection	1.77	1.3 – 2.4
			pH	7.3	8.5	7.3
No. Tests	1	0	4			
London Clay Formation – Whitecliff Sand Member (WHI)	None	None	Test type	Min	Max	Characteristic Value
			Water soluble SO4 (mg/l)	20	140	<500
			Acid soluble SO4 (%)	0.02	1.5	1.5
			Total Sulphur (%)	0.18	0.62	0.62
			Total Potential Sulphate (%)	0.54	1.86	1.3 – 2.4
			pH	6.3	9.4	6.3
No. Tests	0	0	4			
London Clay Formation (LC)	3.1	0.72	Test type	Min	Max	Characteristic Value
			Water soluble SO4 (mg/l)	210	410	<500
			Acid soluble SO4 (%)	0.12	0.23	0.23
			Total Sulphur (%)	0.45	0.87	0.87
			Total Potential Sulphate (%)	1.35	2.61	>2.4
			pH	7.7	7.8	7.7
No. Tests	1	1	3			

7.2 Standard Penetration Test vs Depth Relationship for Section G boreholes

Graph 7.1 shows uncorrected SPT vs depth for Earnley Sand Formation, Wittering Formation, London Clay Formation – Whitecliff Sand Member, London Clay Formation and Lambeth Group.

Made Ground, Head Deposits, Alluvium, River Terrace Deposits show no increase in SPT N value with depth while Earnley Sand Formation, Wittering Formation, London Clay Formation – Whitecliff Sand Member, London Clay Formation and Lambeth Group increase with depth. Extrapolated SPT N values have been shown for London Clay Formation – Whitecliff Sand Member and Lambeth Group, that shows a strong linear relationship.

Graph 7.1 SPT vs Depth per strata from the Phase 2 and Phase 3B/3C Section G boreholes.



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

Graph 7.2 shows undrained shear strength vs depth for London Clay, Earnley Sand Formation (cohesive), cohesive Wittering Formation, and Lambeth Group with all strata displaying a strong relationship of undrained

shear strength increasing with depth as shown by the R^2 values in **Table 7.3**. The highest R^2 value is for Lambeth Group of 0.959. Calculated for only cohesive materials, granular sand horizons omitted.

Undrained strength has been determined both by direct measurement (laboratory undrained triaxial testing on undisturbed samples) and indirectly by derivation from the SPT N_{60} value (after Stroud 1975 where $C_u = f_1 \times N_{60}$ where f_1 depends on the plasticity index).

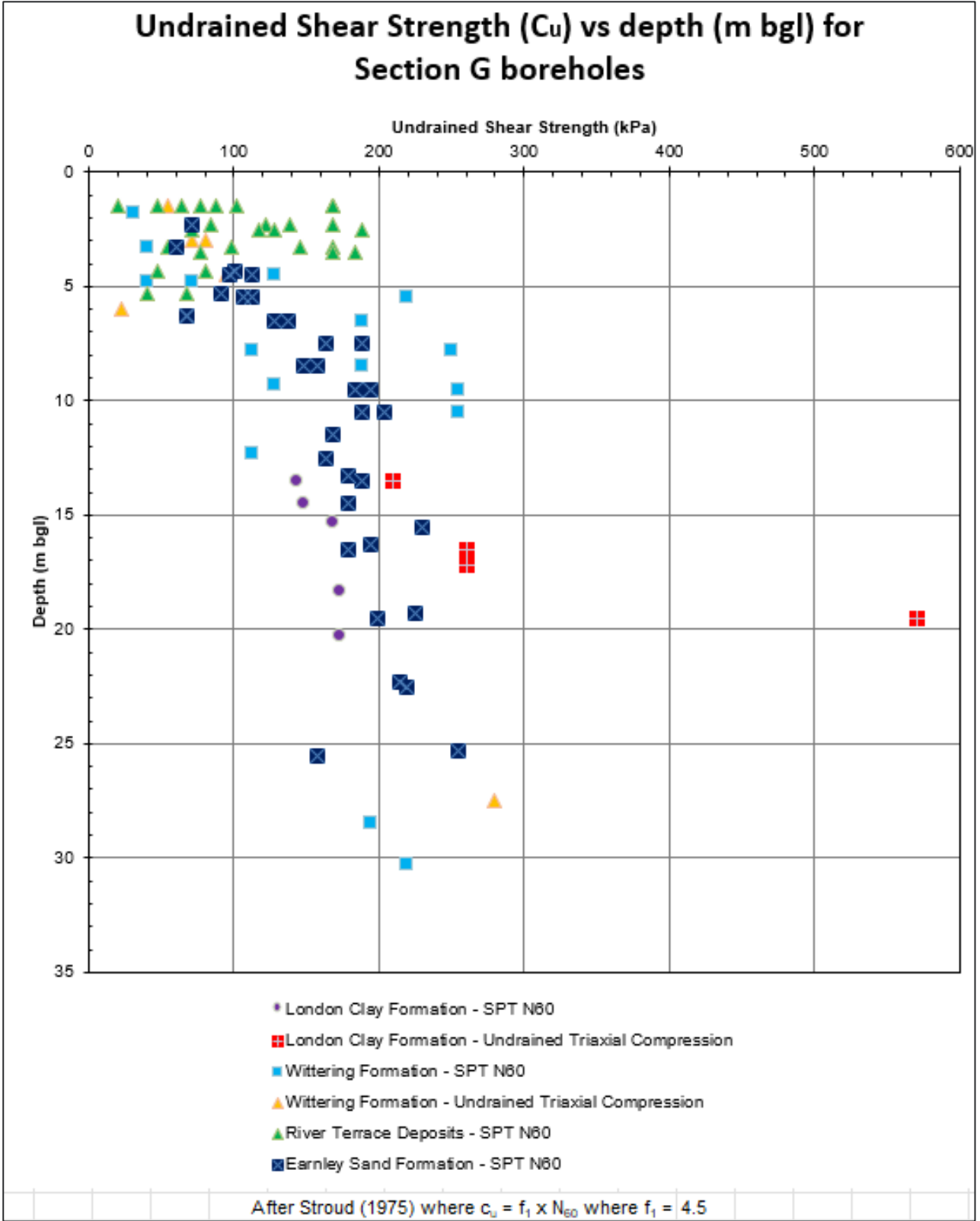
Table 7.3 Measured and SPT derived Undrained Shear Strength relationship of cohesive bedrock deposits across Section G

Geological Strata	R^2 value	Strength Relationship	Undrained Shear Strength (C_u)
Earnley Sand Formation	0.898	$y = 0.0677x$	$C_u = \text{depth}, (y) \div 0.0677 (x)$
Wittering Formation	0.907	$y = 0.1105x$	$C_u = \text{depth}, (y) \div 0.1105 (x)$
London Clay Formation	0.881	$y = 0.0794x$	$C_u = \text{depth}, (y) \div 0.0794 (x)$

There are not enough SPT tests to define a relationship for the superficial deposits.

Graph 7.2 shows C_u values for only cohesive Wittering Formation and cohesive Earnley Sand Formation. Both formations have granular sand horizons that have had SPT conversion to undrained shear strength calculations omitted.

Graph 7.2 Measured and derived Undrained Shear Strength vs Depth per strata from the Phase 2 and Phase 3B/3C Section G boreholes.

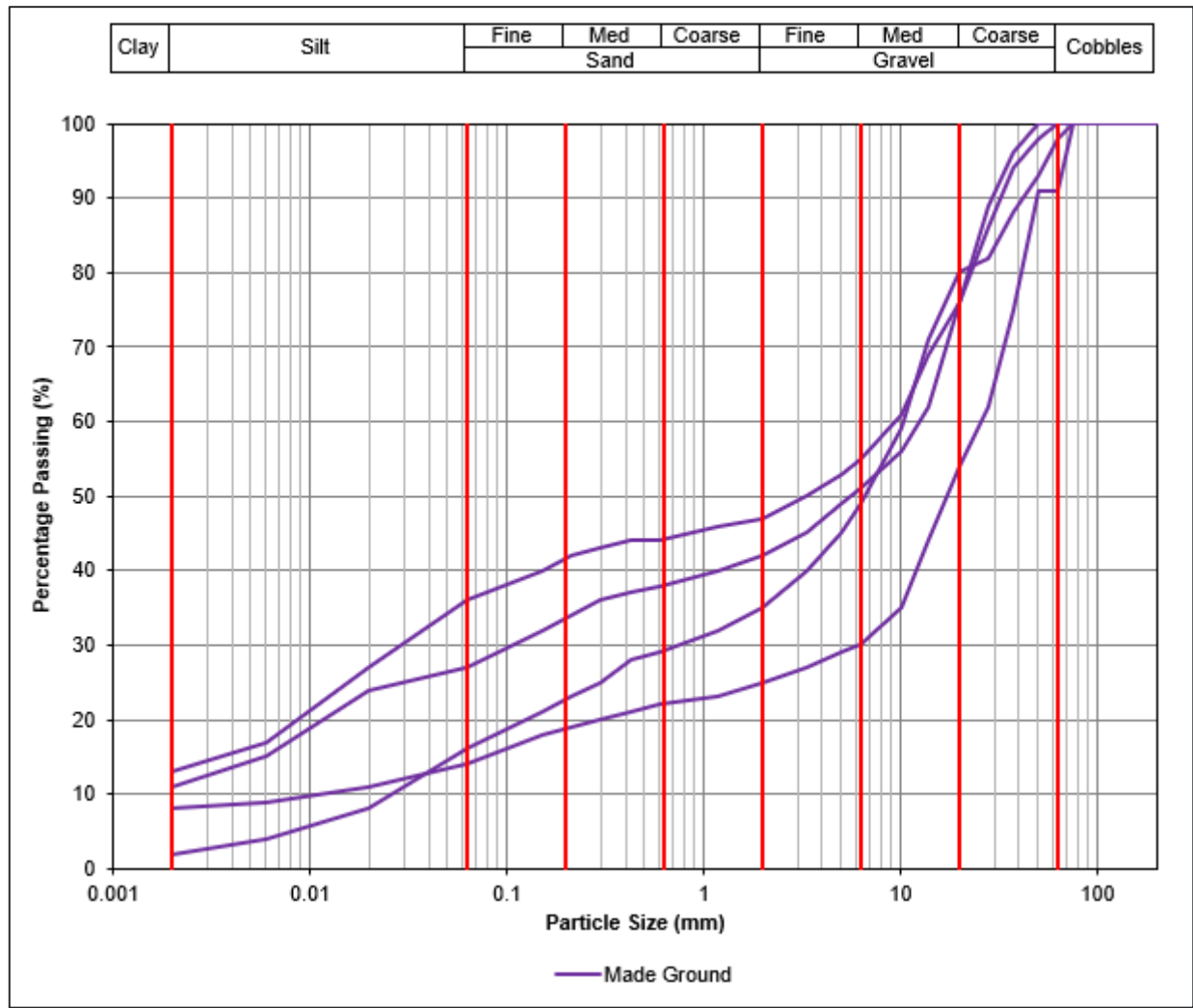


7.4 Particle Size Distribution for Section G boreholes

7.4.1 Made Ground

Graph 7.3 shows Made Ground to fall within clay, gravel and sand particle size distribution, which corroborates with the engineering logs which describe a variation in granular and cohesive soil encountered.

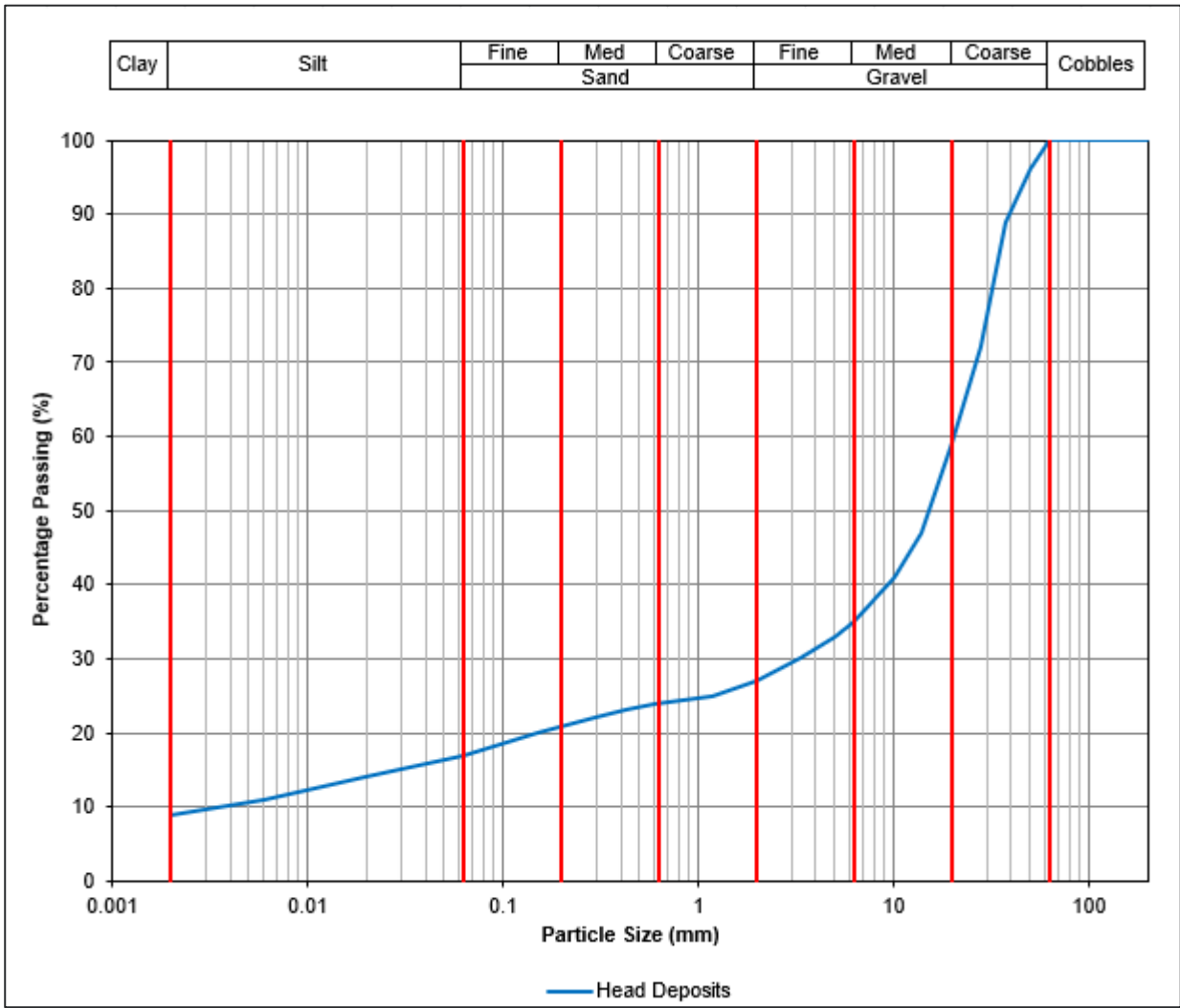
Graph 7.3 Made Ground Particle Size Distribution



7.4.2 Superficial Deposits: Head Deposits

Graph 7.4 shows Head Deposits to classify principally as gravel which does not align with the engineering log within borehole 3W8535SA, the soil is described as gravelly clay. Further testing is required to fully categorise Alluvium and Head Deposits in Section G.

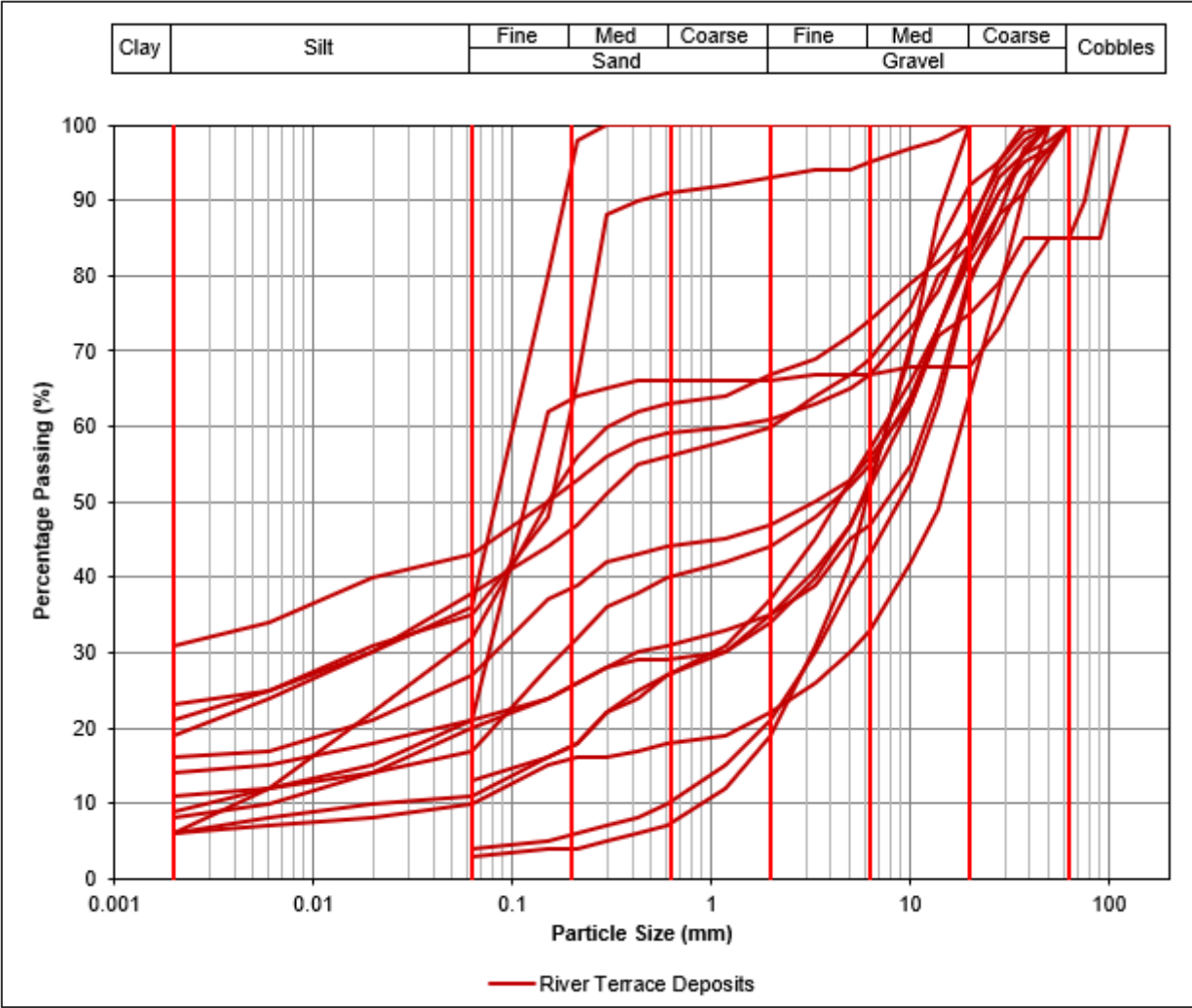
Graph 7.4 Superficial Deposits: Alluvium and Head Deposits Particle Size Distribution



7.4.3 Superficial Deposits: River Terrace Deposits

Graph 7.5 shows the River Terrace Deposits to be variable in composition and to classify principally as a mixture of clay or gravel, which matches descriptions from the engineering logs.

Graph 7.5 Superficial Deposits: River Terrace Deposits Particle Size Distribution

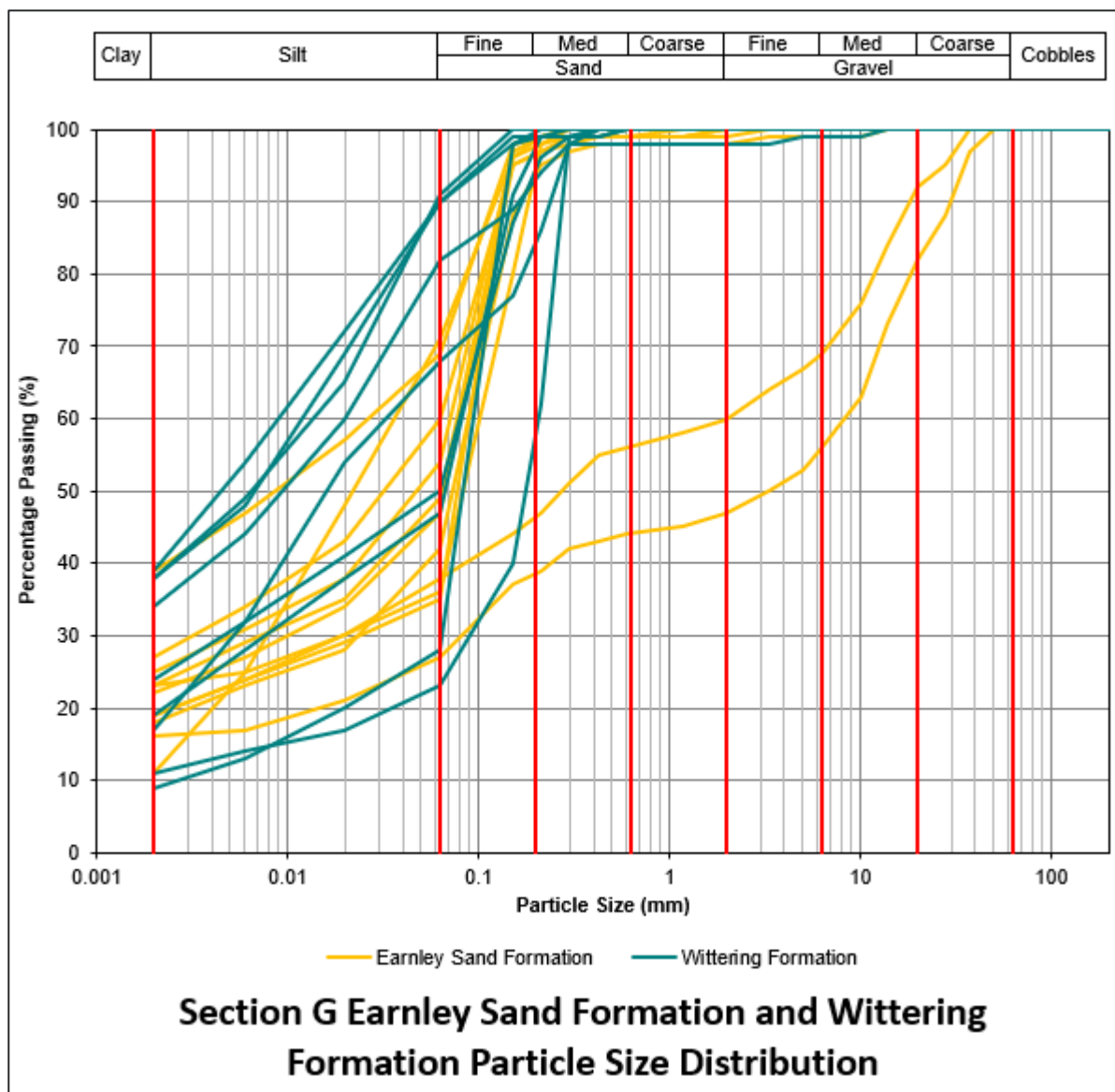


7.4.4 Bedrock Deposits: Earnley Sand Formation and Wittering Formation

Graph 7.6 shows Earnley Sand Formation to fall within the clay/silt and silty sand range, which corresponds with the borehole logs. On two occasions, a silty sandy gravel is shown at 3G4038DS between 0.4 – 1.0 m bgl which differs from the soil descriptions logged as soft to firm brown very gravelly clay. The fines proportion for both samples ranges between 27% and 38% compared with granular soil exceeding 60%. Both results are from only 1 borehole out of 5 boreholes, which is not representative of the whole formation so can be ignored.

Wittering Formation is similar to Earnley Formation with results showing plots for both clay/silt and sand that corresponds to the borehole logs. Both Earnley Sand Formation and Wittering Formation contain multiple alternating cycles of sand horizons mixed with frequent pockets/lenses of clay and are both within the Bracklesham Group encountered adjacent to each other.

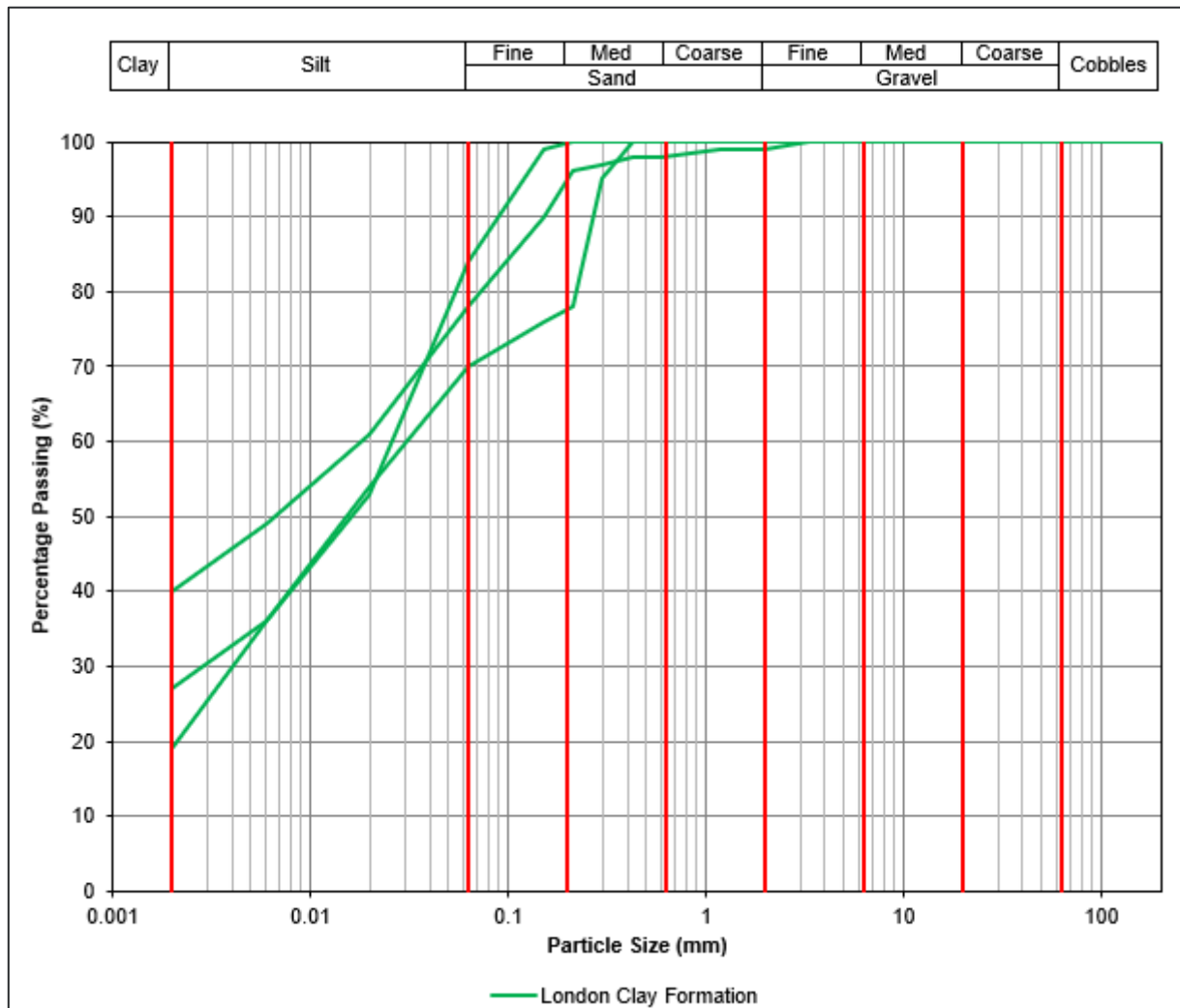
Graph 7.6 Bedrock Deposits: Earnley Sand Formation and Wittering Formation Particle Size Distribution



7.4.5 Bedrock Deposits: Thames Group: London Clay Formation

Graph 7.7 shows the London Clay Formation plots match the soil descriptions with the approximately 30% sand fraction shown at 3G4102SA at 14.8 m bgl as sandy horizons feature throughout the London Clay Formation.

Graph 7.7 Bedrock Deposits: London Clay Formation Particle Size Distribution

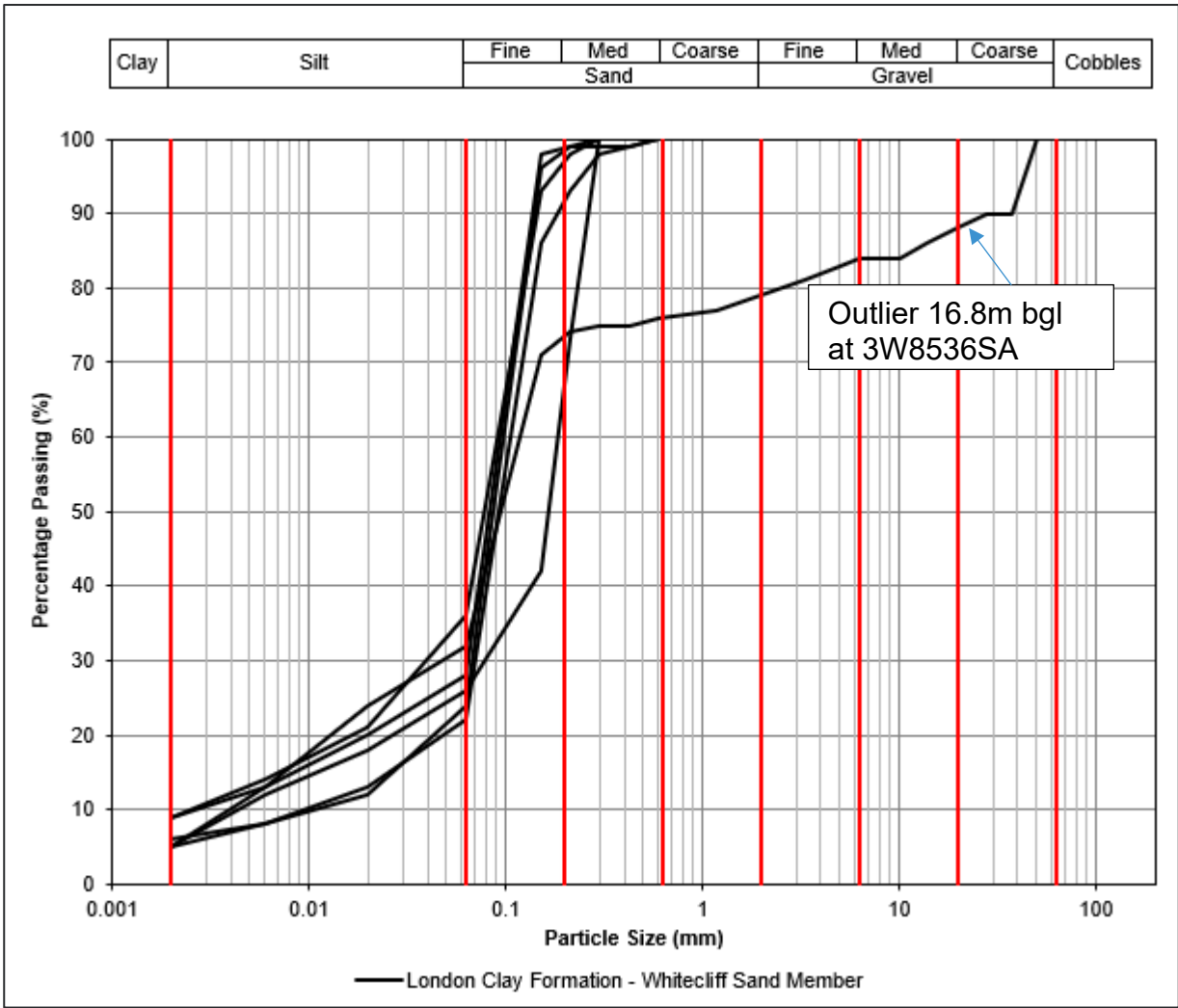


7.4.6 Bedrock Deposits: London Clay Formation – Whitecliff Sand Member

London Clay Formation – Whitecliff Sand Member (WHI) shows a PSD plot showing silty sand that corresponds with the borehole logs within **Graph 7.8**. The difference shown where there is an approximately 20% gravel fraction shown relating to 3W8536SA at 16.8 m bgl, which may be a result of gravel beds at the base of the WHI indicating possible London Clay Formation – Division D.

The 20% gravel fraction within the outlier in the WHI is at 16.8 m bgl at 3W8536SA attributed to sandstone fragments described on the borehole log.

Graph 7.8 Bedrock Deposits: London Clay Formation – Whitecliff Sand Member Particle Size Distribution

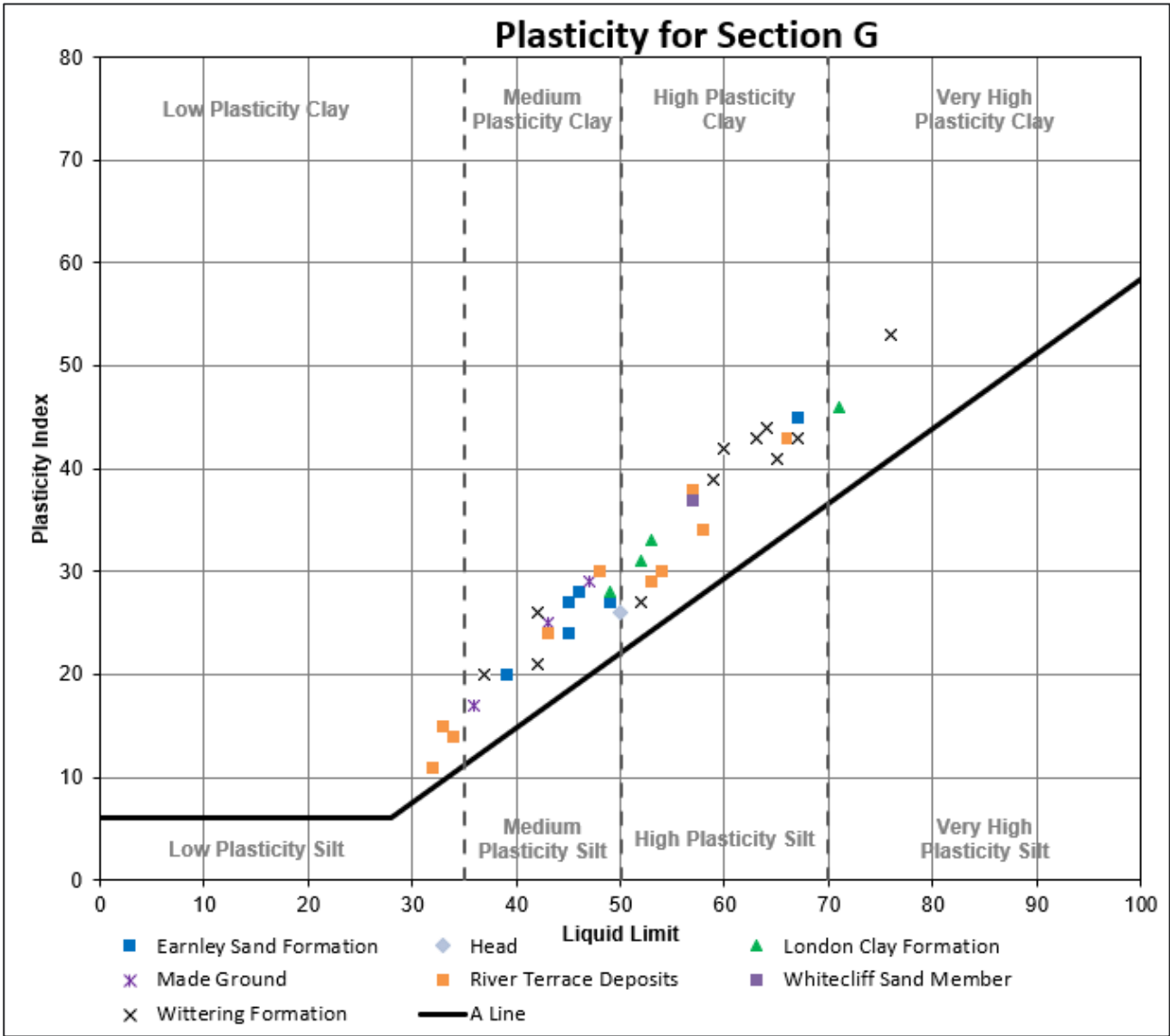


7.5 Plasticity for Section G boreholes

Graph 7.9 shows Made Ground as a medium plasticity Clay, Head Deposits are medium to high plasticity clay, the matrix of the River Terrace Deposits shows a low to high plasticity Clay.

Graph 7.9 shows Earnley Sand Formation is shown with a medium to high plasticity Clay, Wittering Formation as a low plasticity to very high plasticity Clay. London Clay Formation is shown to be a medium to very high plasticity Clay.

Graph 7.9 Section G Plasticity Chart



7.6 Geotechnical Design Parameters

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

Table 7.4: Geotechnical Design Parameters for Section G boreholes

Geotechnical Design Parameters										
Strata	Native Soil Modulus, E's (MN/m ²) ^a	Elastic Modulus E _u ^{b2}	Bulk density, γ (kN/m ³) ^c	Constant volume angle of internal friction, φ (°) ^c	Undrained Shear Strength, C _u (kPa) ^{b1}	Coefficient of Volume Compressibility, m _v (m ² /MN) ^{b1}	Uniaxial Compressive Strength (MPa)	Concrete Aggressivity ^d	Earthworks slopes ^{b2}	From PSD results embedment S class for 'as-dug' soils ^e
Made Ground (MGR)	Soft clay: 3 Medium dense gravel : 9	<u>Soft clay</u> Short Term: 2 MPa Long Term: 1 MPa <u>Medium dense gravel</u> 50 MPa	15 – 20	φ = 25° φ = 32°	20	0.3	Not Applicable	DS-4 AC-4	1 V : 2 – 2.5 H	Variable – unsuitable for re-use
Alluvium (ALV)	Loose Sand: 1.5	3 MPa	15 – 19	Not available from Section G locations, used from Section K: φ = 25°	Not Applicable	Not Applicable	Not Applicable	DS-1 AC-1	1 V : 2 – 2.5 H	S2 - Gravel (graded) or a combination of fine grained sand with liquid limit generally <50%. Potentially suitable as S3 bedding (if <12% fines). Further classification testing including liquid limit and PSD required.
Head Deposits (HEAD)	Firm clay: 3	Short Term: 5 MPa Long Term: 4 MPa	16 – 20	Based on 2 plasticity results available. φ = 24°	40	0.1	Not Applicable	DS-1 AC-1	1 V : 2.5 – 3 H	S4 – coarse grained soil with more than 12% fines. Further classification testing including liquid limit and PSD required.
River Terrace Deposits (RTD)	Soft to firm clay (locally stiff): 4 Dense sand: 9 Medium dense gravel: 9	<u>Soft to firm clay</u> : Short Term: 2 MPa Long Term: 1 MPa <u>Dense sand</u> : 25 MPa <u>Medium dense gravel</u> : 50 MPa	15 - 20	φ = 25° φ = 30° φ = 32°	20	0.3	Not Applicable	DS-1 AC-1	1 V : 2.5 – 3 H	S4 – coarse grained soil with more than 12% fines
Earnley Sand Formation (EA)	Firm clay: 3 Dense sand : 9	<u>Firm clay</u> : Short Term: 5 MPa Long Term: 4 MPa <u>Dense sand</u> : 25 MPa	16 - 20	φ = 24° φ = 30°	40	0.1	Not Applicable	DS-1 AC-1	1 V : 2.5 – 3 H	S4 – coarse grained soil with more than 12% fines
Wittering Formation (WTT)	Firm to very stiff clay: 4 Dense to very dense sand: 9	<u>Firm to very stiff clay</u> : Short Term: 5 MPa Long Term: 4 MPa <u>Dense to very dense sand</u> : 25 MPa	16 - 23	φ = 22° φ = 30°	40	0.1	Not Applicable	DS-4 AC-4	1 V : 3 H	Fine grained, liquid limit generally >50%. Unsuitable for re-use

	Geotechnical Design Parameters									
Strata	Native Soil Modulus, E' _s (MN/m ²) ^a	Elastic Modulus E _u ^{b2}	Bulk density, γ (kN/m ³) ^c	Constant volume angle of internal friction , φ (°) ^c	Undrained Shear Strength, C _u (kPa) ^{b1}	Coefficient of Volume Compressibility, m _v (m ² /MN) ^{b1}	Uniaxial Compressive Strength (MPa)	Concrete Aggressivity ^d	Earthworks slopes ^{b2}	From PSD results embedment S class for 'as-dug' soils ^e
London Clay Formation – Whitecliff Sand Member (WHI)	Dense to very dense sand: 9	<u>Dense to very dense sand</u> : 25 MPa	17 - 20	Not Applicable	Not Applicable	Not Applicable	Not Applicable	DS4 AC-4	1 V : 1.5 – 2.5 H ^f	S4 – coarse grained soil with more than 12% fines
London Clay Formation (LC)	Stiff to very stiff clay: 6	Short Term: 10 MPa Long Term: 7 MPa	20 - 23	φ = 23°	75	0.05	Not Applicable	DS-4 AC4	1 V: 2.5 – 3H	Fine grained, liquid limit generally >50%. Unsuitable for re-use

a (BSI, 2020) Table 13
b1 (Tomlinson, 2001) Table 2.5, Table 2.11, Figure 2.33, Section 2.6.6
b2 (Look, 2007) Table 11.7, Table 11.8, Figure 14.1, Table 14.10
c (BSI, 2015) Figure 2 and Section 4.3.1.4.8
• d (BRE, 2005) Table C1
e (BSI, 2020) Table 24
Table 24 of BS9295:2020 corresponds to Table A.3 from the Water Industry Specification for Bedding and Side fill Materials for buried pipelines WIS 4-08-02 February 1994: Issue 1 document.
f (Look, 2007) Table 14.9 value for sand at cut slopes and Table 14.10 value for sand at fill slopes

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 G

BH ID	Electrode spacing (m)			
	4.0	3.0	2.0	1.0
	Apparent Resistivity (mean) (Ω .m)			
3W8526HP	56	60	74	80
3W8528HP	45	47	36	21
3W8532HP	42	51	47	44
3W8560HP	27	24	23	18

A characteristic apparent resistivity value of 18 Ω m should be taken, which indicates that the ground is highly aggressive towards ferrous metals.

7.8 Infiltration and Permeability Testing

Falling head permeability testing was undertaken at multiple locations across Section G. The results are presented in **Table 7.6**.

Table 7.6: Infiltration and falling head permeability testing results.

BH ID	Test Type	Standpipe / Borehole	Depth of Test (m bgl)	Result (m/s)	Strata
3G4022DS	Falling Head Permeability Test	Standpipe	1.00 – 3.00	4.4×10^{-6}	River Terrace Deposits
3G4105SA		Borehole	2.00 – 2.50	1.1×10^{-6}	River Terrace Deposits
3W8530SA		Borehole	6.60 – 7.50	6.7×10^{-7}	Wittering Formation (clay horizon)
3W8534DS		Standpipe	2.00 – 3.00	6.0×10^{-7}	Made Ground and River Terrace Deposits
3W8536SA		Borehole	2.50 – 3.00	1.4×10^{-5}	River Terrace Deposits

Due to water ingress at ground level and instability in the trial pitting for 3G7525IT and 3G7530IT, Infiltration soakaway testing was instructed not to proceed by SSP Hydrologists.

8 Geotechnical Considerations

8.1 Ground Conditions

The ground conditions recorded at the GI locations are generally in line with geological mapping for the area apart from:

- Made Ground was encountered at 3G4037DS, 3G4038DS (chainage 18025 – 18050) , 3W8534DS, 3W8539DS (chainage 17770 – 17800) and 3W8536SA (chainage 17030) to a maximum depth of 2.20 m bgl.
- Wittering Formation is not mapped at 3W8529SA, 3W8530SA (chainage 15900 – 15960) or 3W8535SA at chainage 16730 (only London Clay Formation – Whitecliff Sand Member, WHI) however it is encountered above WHI to a maximum depth of 9 m bgl at these locations.

Across the Section G Superficial Deposits are present at ground level however their thickness and depth are unknown for the majority of the route. Superficial Deposits are at ground level with Alluvium, River Terrace and Head Deposits present. Smaller parts of section G have the following bedrock at ground level; Lambeth Group, London Clay, Whitecliff Sand Member, Wittering Formation and Earnley Sand Formation. Open cut excavations will be formed within Superficial Deposits and Bedrock.

Beneath the River Meon at the newer pipeline route alignment that has changed since Phase 2 GI completed, for Phase 3B/3C at 3W8535SA and 3W8536SA; proposed trenchless construction is between 14 – 17 m bgl. At 3W8535A, between 14 – 17 m bgl, this will be underlain by London Clay Formation to the base of the shaft. At 3W8536SA between 14 – 17 m depth, only WHI is expected. At both launch and reception shaft locations for the A32 (Hoad's Hill), trenchless construction (3W8529SA and 3W8530SA) is at 10 m bgl also within WHI only. Beneath the A334 Winchester Road at 3G4102SA, trenchless construction for both locations (including paired trenchless location 3H4600SA) is at 12 m bgl. At 3G4102SA, Wittering Formation is expected to be encountered (within a 9 m sand horizon) and at 3H4600SA, London Clay Formation (between chainages 18600 – 18700).

8.2 Foundation Design

Open-cut pipeline sections between 3 and 6m bgl are expected to be founded within River Terrace Deposits, Earnley Sand Formation and Wittering Formation in the north of Section G. In the southeast of the Section, open cut sections are expected to be founded within Head Deposits, London Clay Formation – Whitecliff Sand Member, London Clay Formation and Lambeth Group.

All strata within Section G will be capable of supporting all required plant, except perhaps any loose or soft Alluvium (e.g. near to the river crossing) and River Terrace Deposits. If 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). Bearing resistance or settlement issues are not anticipated – the pipeline is expected to result in a net reduction in ground bearing pressure at formation level.

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 to 6 m bgl, all within Made Ground, superficial deposits, Earnley Sand Formation, Wittering Formation, London

Clay Formation – Whitecliff Sand Member, London Clay Formation and Lambeth Group bedrock. Excavations are expected to be within the capability of conventional plant.

Full excavation support would likely be required in superficial deposits where encountered near watercourses or infilled ponds.

Where space permits (e.g. in open land), it may be possible to construct the pipework within unsupported battered trenches though sides of the excavation may be prone to drying out and weathering could cause sides to slip if left open for long periods of time. This is generally applicable to clay Superficial Deposits, London Clay and Lambeth Group (clay) and with excavations open for a long time. Stepping temporary slopes and/or supporting trenches would be beneficial to prevent this from occurring (CIRIA, 1992).

Relatively shallow groundwater is anticipated (see 8.3.2 below), beneath which finer materials may be washed out resulting in reduced stability. Sand will be encountered beneath the groundwater table within the Alluvium and running sands may develop. Where excavations are proposed near existing structures, full temporary excavation support is recommended that is designed to mitigate unacceptable ground displacements.

8.3.2 Groundwater Control

Groundwater records from Phase 3B/3C ground investigation show shallow groundwater was also encountered in Made Ground, River Terrace Deposits and Earnley Sand Formation to a maximum depth of 3.76 m bgl. The varying groundwater elevations across these locations over an approximate 260 m distance (*3G4022DS, 3G4037DS, 3G4038DS, 3W8534DS, 3W8539DS) range between +48.32 m OD and + 54.43 m OD. At the proposed River Meon trenchless crossing in Phase 3B/3C (3W8535SA and 3W8536SA) groundwater is expected to be encountered within Head Deposits and River Terrace Deposits. At 3W8535SA, groundwater levels recorded 0.41 – 0.70 m bgl together with at 3W8536SA: 2.19 – 2.52 m bgl (+21.13 – 21.51 m OD). Towards the southern part of the Section G route, the A32 (Hoad's Hill) trenchless crossing contains shallow groundwater within the Wittering Formation between 1.23 – 1.34 m bgl (between + 28.76 m OD and +29.86 m OD). At all these locations where shallow groundwater is encountered, it is expected to be controllable by sump pumping with caution taken wherever high fine contents are likely such as within Earnley Sand Formation.

In the north of the Section, groundwater is expected to be encountered with the Earnley Sand Formation and Wittering Formation at deep levels between 9.70 – 11.10 m bgl (varying elevations between +41.00 m OD and 44.47 m OD) at 3G4102SA and 3G4105SA. At 3G4102SA and 3G4105SA, these groundwater entries are expected to be controllable by ejectors or well points.

Groundwater levels during monitoring were higher than those encountered during drilling which should be considered prior to construction.

It may be possible to reduce inflows from excavations, or exclude groundwater altogether, by the driving of sheet piles toed into the bedrock, coupled with sump pumping where necessary. Large volumes of pumping should be avoided as this may draw out fines, risking the base loosening and subsequent settlement of the proposed works and any adjacent structures. Specialist dewatering techniques may be utilised (e.g., pre-bored well points) or a combination of methods to reduce the risk of groundwater impacting excavations.

8.4 Flotation

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

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 shaft dimensions and depths. Launch shaft dimensions will range between 9.0m – 9.5 m diameter with 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 as shown with all the borehole locations in Section G shown in **Table 8.1**.

Table 8.1 Trenchless location depths in Section G.

Trenchless Hole Location (launch pit)	Base of Shaft Construction Depth m bgl (m OD)	Strata	Trenchless Hole Location (reception pit)	Base of Shaft Construction Depth m bgl (m OD)	Strata
3G4102SA	12.0 (+ 43.20)	Wittering Formation (sand horizon)	3H4600SA	12.0 (+ 42.21)	London Clay Formation
3W8536SA	14.0 – 17.0 (+ 9.65 to +6.65)	London Clay Formation – Whitecliff Sand Member	3W8535SA	14.0 – 17.0 (+ 7.92 to +4.92)	London Clay Formation
3W8530SA	10.0 (+20.10)	London Clay Formation – Whitecliff Sand Member	3W8529SA	10.0 (+21.09)	London Clay Formation – Whitecliff Sand Member

Where Wittering Formation, Earnley Sand Formation and Whitecliff Sand Member (WHI) is expected at the various trenchless construction depths, it is recommended to align the pipejack tooling deeper to target potentially deeper stiff/very stiff clay. If tunnelling in stiff/very stiff clay, considered optimum material for soft-ground tunnelling as it is generally self-supporting, of low permeability, and homogenous. Both open-face and closed face tunnelling methods are likely to be suitable.

Trenchless construction in Wittering Formation (within sand horizons), Earnley Sand Formation (within sand horizons) and WHI below the water table between 0.41 m – 2.52 m bgl will need a machine with full face support (e.g. slurry // EPBM system).

Considering the current pipe jacking depth is likely within Wittering Formation (within sand horizons), Earnley Sand Formation (within sand horizons) and WHI (the distinct sand horizon within LC), consideration may be given to deepening of the pipejack so that it is only within London Clay Formation, not at its current proposed depth within WHI. Further ground investigation would be recommended to better profile the WHI/LC boundary between these two locations.

8.6 Ground Aggressivity

8.6.1 Concrete

The results of the pH and sulphate tests (SO₄) undertaken on Alluvium, Head Deposits, River Terrace Deposits and Earnley Sand Formation 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, Wittering Formation and London Clay Formation – Whitecliff Sand Member results indicated that for worst case design sulphate class is DS-4 and the worst case ACEC is AC-4.

For London Clay Formation, worst case design sulphate class is DS-4 and the worst case ACEC is AC-4. It is assumed that arisings may be oxidized and are to be replaced with granular fill during construction.

8.6.2 Ferrous Metals

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

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 $10\Omega\text{m}$
- 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 1000mg/l
- 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 worst case scenario, these two assessments classify Section G as highly aggressive (Table A1) and very aggressive (Table B1) respectively (Eyre, D., & Lewis, D.A., 1987).

8.7 Material Reuse

Potentially Alluvium, Head Deposits, River Terrace Deposits, Earnley Sand Formation and London Clay Formation – Whitecliff Sand Member excavated arisings may be used as bedding and side fill material if found to be granular in nature during further investigations. All of Alluvium, Head Deposits, River Terrace Deposits, Earnley Sand Formation are variable in nature and therefore would require site verification by routine lab testing (i.e., PSD testing) and in-situ density measurements (e.g., sand-replacement method and/or nuclear densometer) of the compacted fill would be required. Because of the difficulty in achieving high levels of compaction when using Site won arisings, a maximum dry density of 95% would be considered appropriate in design. All other strata are unsuitable for re-use due to fine grain consistencies and liquid limits generally >50%.

8.8 Intermediate Pumping Station – G (IPS-G)

8.8.1 Bearing Resistance

The IPS - G comprises a twin cell tank and valve house, together with access roads on site. Ultimate bearing resistance calculations have been completed for the tanks and valve house as described in chapter 2.1, founded on granular River Terrace Deposits / Earnley Sand Formation with removal of any cohesive River Terrace Deposits on a pad foundation depth of 0.6 m bgl.

Pumping Station (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; the undrained case is most critical. 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 is approximately 200 kPa, well in excess of the anticipated ground pressure of the structure. The full output for the drained case is attached within **Appendix K**.

8.8.2 Settlement

Pumping Station (11 m width x 30 m length x 8 m height)

Using a permanent load of 65 kPa the settlement imposed is estimated to be of the order of 13 mm. It is recommended only founding on granular River Terrace Deposits or Earnley Sand Formation and removing all cohesive River Terrace Deposits where present at formation level. After removal of cohesive material above, the settlement is likely to be minimal. The full output for the settlement calculations is attached within **Appendix K**.

8.8 Geotechnical Hazard Assessment

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. Uncontrolled ground settlement, very soft / loose material present that is inadequate for founding of pipework / chambers.	Liaise with the Applicant and Principal Contractor to agree on potential additional exploratory hole locations including a site visit, reviewing utility drawings and geological maps.
Trenchless construction near Wickham WTW	3W8536SA borehole completed during Phase 3B/3C GI to provide ground and groundwater conditions as close as practical to launch/reception shaft location paired with 3W8535SA to the southeast drilled either side of River Meon. Route may be close to below ground tanks that have been piled to a depths near the proposed trenchless construction depth (14 – 17 m bgl), buried pipework and / or embedded retaining walls may be present.	Liaise with the Applicant and Wickham WTW to obtain construction records, up to date utility information, previous historic borehole records for the area. A desk study to identify the depth of foundations on site is recommended. If all previous site records are unavailable to reduce the geotechnical risk, ensure the pipeline avoids Wickham WTW as much as possible as with current alignment (as of end December 2023) to the southwest of the site with sufficient clearance away from buried structures/services.
Groundwater	Lack of knowledge of groundwater conditions could potentially result inappropriate/inadequate choice of dewatering techniques, excessive sump pumping causing settlement, unstable ground, inappropriate bore support.	Groundwater levels are checked for boreholes during drilling of boreholes and throughout post-fieldwork monthly monitoring visits.
Trench Collapse	Trench due very soft / loose material present and high groundwater.	Dewatering of trench, use vertical sided trench support: trench sheets or boxes, where required and ground investigations to identify soft ground.
Excessive settlement, pipe failure / bursts.	Excessive subsidence and hidden soft areas of ground previously not identified during the GI. Limited and very localised GI	Ensure that proposed pipework avoids areas of unsuitable ground and buried structures where possible. If structures are within the route alignment, arrange with the Applicant and appropriate asset landowners that the impact of the proposed construction is reviewed and appropriate mitigation undertaken. Ensure that the design includes for the use of appropriate groundwater control and excavation support methods to be employed for the encountered ground to minimise any impacts.
Striking Unexploded ordnance (UXO),	The Site was impacted by bombing in WWII.	Preliminary Risk Assessments were conducted specific to each exploratory hole location to reduce the section wide greater UXO risk. Zetica produced a Detailed Unexploded Ordnance Risk Assessment Report has for the pipeline route with UXO risk as low as shown in Chapter 8 across Section G within the same report. Recommendations are presented within Chapter 8.1 and 8.2. For shallow intrusive works: ■ UXO Safety & Awareness Briefing (Zetica, 2024)
Aggressive Chemical Environment for Concrete / Failure of ferrous assets due to degradation.	The results of the pH and sulphate tests (SO4) undertaken on Alluvium, Head Deposits, River Terrace Deposits, Earnley Sand Formation, and Lambeth Group 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, Wittering Formation and London Clay Formation – Whitecliff Sand Member results indicated that for worst case design sulphate class is DS-4 and the worst case ACEC is AC-4. It is assumed that arisings may be oxidized and replaced. For London Clay Formation, worst case design sulphate class is DS-4 and the worst case ACEC is AC-4. It is assumed that arisings may be oxidized and replaced. Excessive corrosion of ductile iron.	London Clay Formations including Wittering Formation above have contain high amounts of pyrite and consequently are likely to be aggressive towards concrete. Ensure that resistivity testing is widely performed across the pipeline route.

9 Conclusions

9.1 Geotechnical

Superficial deposits and bedrock are likely to be encountered during open-cut construction with bedrock deposits including Wittering Formation, London Clay Formation – Whitecliff Sand Member and London Clay Formation at the proposed trenchless crossing locations.

High groundwater levels across the exploratory hole locations may require conventional sump pumping to take place. Sheet piles toed into the bedrock may also be considered for excluding groundwater from the excavations. Low groundwater levels at 3G4102SA and 3G4105SA are expected to be controllable by ejectors or well points.

Pipejacking is the proposed trenchless construction technique proposed, considered by the Applicant, due to the pipeline passing under a number of sensitive land-uses.

Parts of the proposed open-cut construction between 3.0 – 6.0m bgl will encounter London Clay Formation, which is heavily pyritic and has high Total Potential Sulphate values. The design sulphate class is DS-4 and the worst case ACEC is AC-4.

As a result of particle size distribution (PSD) tests and Atterberg limits analysis, Alluvium may be suitable for re-use as bedding and side fill (S2) and potentially suitable as S3 bedding, however further classification testing including liquid limit and PSD is required. Head Deposits, River Terrace Deposits, Earnley Sand Formation and London Clay Formation - Whitecliff Sand Member may be suitable for re-use as bedding (S4). If re-use is to occur careful segregation of materials would be needed during construction, and perhaps some processing (e.g. to remove larger clasts). All other strata are unsuitable for re-use.

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

9.2 Geo-Environmental

The Phase 2 GI across Section G focused on the investigation of potentially infilled gravel pits (PSCs 36 and 52) (2G4002DS to 2G4004DS). Route changes meant that the Phase 3B/3C GI focused on an additional pit (PSC 46), a garage (PSC 475) and three trenchless crossing locations; one beneath the River Meon and two beneath roads. Testing within the GI was performed to assess their potential impact on the identified receptors from the Proposed Development within this section (which is largely via open cut installation, and in some places beneath watercourses in trenchless crossings). Soil samples were collected from exploratory holes advanced within the route, and post-GI groundwater and ground gas monitoring was carried out in the additional wells installed during the Phase 3B/3C GI. Soil and groundwater samples were analysed in the laboratory.

Visual signs of contamination encountered during ground investigation were isolated to 3W8539DS where a hydrocarbon odour was noted in the exploratory hole log. A 0.10 m bgl thick layer at the base of the Made Ground, between 0.75 m bgl and 0.85 m bgl, was described as black sandy gravels. A hazardous properties classification and TPH and PAH exceedances in groundwater sampling carried out within 3W8534DS and 3W8539DS, advanced to target PSC 46, suggests further hydrocarbon may be encountered at this PSC.

9.2.1 IPS-G

Phase 3B/3C advanced GI locations in order to investigate ground conditions beneath IPS-G. A revised risk assessment for the site yielded a Moderate risk for impact to construction, maintenance workers and future site users at IPS-G. This based on the findings of ground gas monitoring which showed carbon dioxide exceedances for short and long-term WELs, isolated carbon monoxide readings exceeding LTLs, and depleted

oxygen levels. As IPS-G is a permanent structure, a gas risk assessment was carried out and the Site was given a CS3 classification, however, it is considered that due to the lack of a credible ground gas source (wells situated within natural deposits, no Made Ground, no methane recorded in wells and low carbon dioxide concentrations) gas protections measures for the structure are not necessary. A soil sample collected at one GI location within IPS-G possessed hazardous properties, and would, therefore, be classified as hazardous for waste disposal purposes based on TPH concentrations.

9.2.2 Section G DoL

There is a High risk for impact to construction and maintenance workers and maintenance workers adjacent to a vehicle maintenance garage (3G4038DS (PSC 475)) due to the identification of asbestos. The potential of encountering further asbestos within the vicinity of this location cannot be discounted. Contamination concentrations in soil leachate and groundwater have been encountered at 3G4022DS and 3G4037DS, south of the garage (PSC 475) and this area has been assessed with PSC 475.

Moderate to Moderate/Low risk rating for human health impact to construction workers, maintenance and future site users were identified at two other PSC investigated areas (PSCs 36/52,46). Risk ratings for controlled water receptors at these locations were Moderate to Moderate/Low. Hazardous properties were identified in one sample taken from GI location at PSC 46 (Pit-VariouS).

For the trenchless crossing locations, a risk classification of Moderate for impact to human health of construction workers, maintenance and future site users has been identified for the trenchless crossing locations based on potential exposure to elevated carbon dioxide concentration during works. A risk classification of a Moderate/Low for potential impact to human health of construction workers and future site users have been identified for the trenchless crossing locations based on potential exposure to identified contaminants via direct contact with COCs in groundwater.

At proposed trenchless crossing locations, a risk classification of Moderate impact to groundwater has been identified based on the presence of River Meon, culverted drains and drains across Wickham Golf Course which may be in hydraulic continuity with groundwater beneath these areas, and the presence of contaminants detected in groundwater. A Moderate/Low impact to surface water has been identified at these trenchless crossings with the exception of the trenchless crossing at the A32 (Hoads Road) where a Moderate risk rating is identified due to the culverted drain at this proposed crossing point.

Carbon dioxide concentrations during monitoring exceeded STL and LTL workplace thresholds in all installed boreholes. Ground gas is unlikely to pose a risk within areas of GI undergoing open cut excavations as any gas accumulated with quickly dissipate. At the trenchless crossings, although there are no permanent building structures proposed a risk classification of Moderate for impact to human health of construction workers, maintenance and future site users has been identified based on the potential exposure to elevated carbon dioxide concentration during works. The ground gas data recorded at locations should be considered at the preconstruction phase, as temporary deep excavations are planned as reception pits.

10 Recommendations

10.1 Geotechnical

Further Ground Investigation is recommended.

Ground investigation carried out thus far in Section G are only representative of a small area of the total length of pipeline. It is recommended that further ground investigation along the route is performed to fully understand and characterize the soil required to be excavated / removed / reused at additional trenchless crossings beneath roads and rivers and PSC areas. Between drilled boreholes: 3W8535SA and 3W8536SA, further confirmation of the ground conditions will help trenchless tunnelling contractors better reduce uncertainty and geotechnical risk involved during construction.

Ground preparation

Further testing is required if it is proposed to re-use arisings as pipe bedding, inclusive of PSD, Atterberg Limits, and compaction fraction tests.

10.2 Geo-Environmental

Further Ground Investigation is recommended.

Further soil sampling and testing prior to construction may be necessary if material reuse is planned. This is to be determined after details in the design phase are clarified.

Further GI to investigate ground conditions that includes geo-environmental sampling is recommended along Section G at the locations of Moderate/Low risk or higher identified following the Phase 2 and Phase 3B/3C GIs. These include:

- Further GI within the vicinity of a Garage (PSC 475) to delineate the asbestos encountered in GI location 3G4038DS.
- Further GI along the proposed route in the Pit (PSC 46) east of Titchfield Lane to delineate the elevated petroleum hydrocarbon concentrations found which exceed non-hazardous waste thresholds.
- The source of the TPH and other contaminants identified within groundwater sampled from the trenchless crossing boreholes is unconfirmed. Additional GI and groundwater monitoring to further assess potential impact to groundwater and surface waters.

It is expected that the contractor will further assess identified PSCs (where additional information is need), those identified in the Desk Study (SSP, 2024) and not investigated in Phase 2 and Phase 3B/3C and 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.

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. The sources of contaminants encountered within groundwater samples taken from boreholes advanced for the trenchless crossing locations will require further investigation to determine the source, behaviour and connection between the groundwater and the River Meon, culverted watercourses and drains.

The ground gas data recorded at the trenchless crossing of the River Meon should be considered at the pre-construction phase in terms of risks to groundworkers in the planned launch/reception pits.

Watching briefs are recommended

Watching briefs should be in place during construction. Groundworkers should remain vigilant throughout construction 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.

Stockpile management

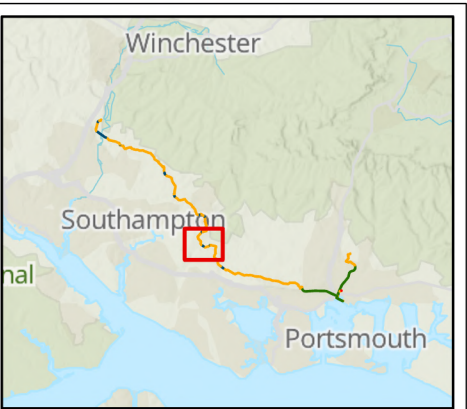
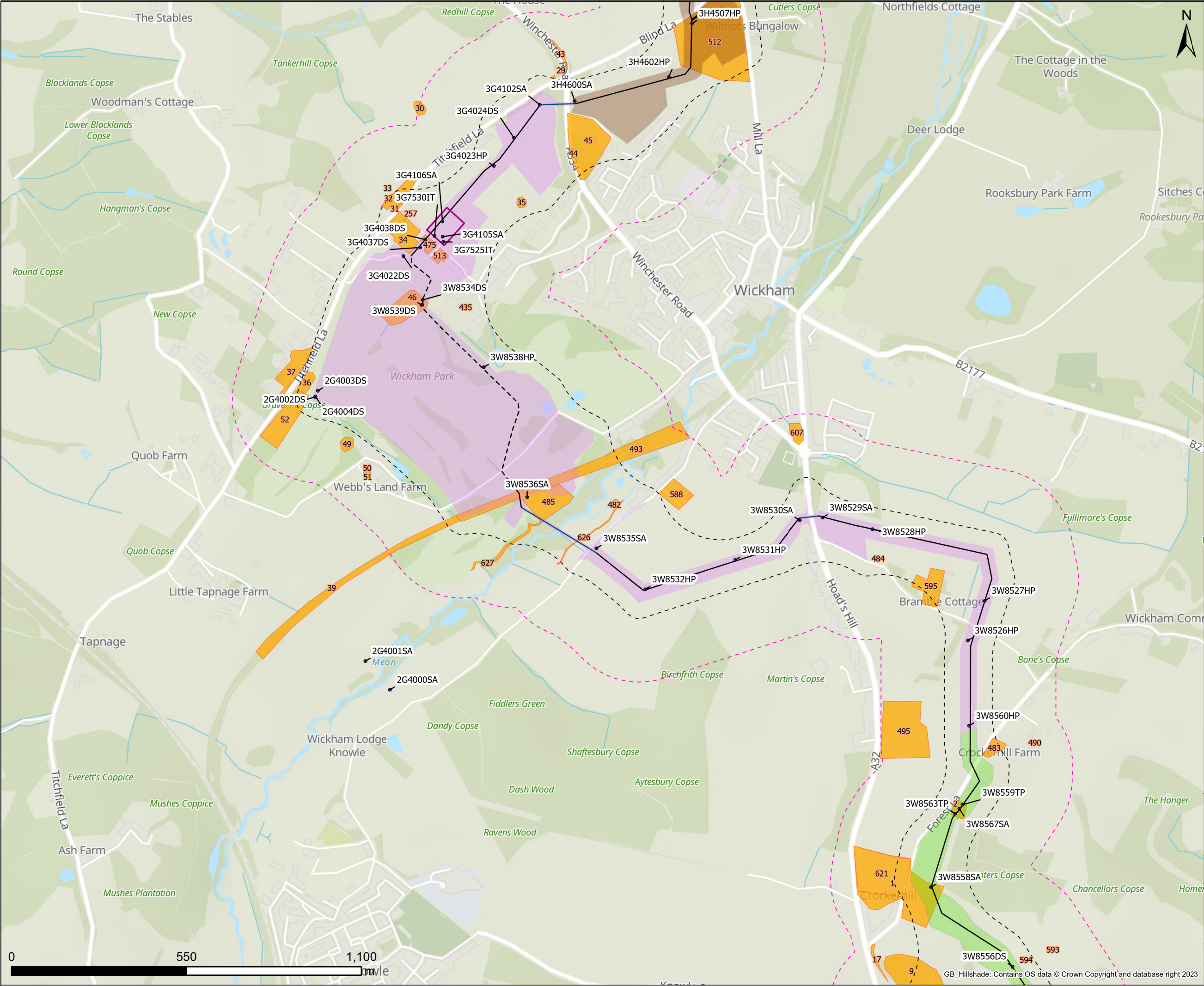
Stockpile material must be well managed and kept on an area of hardstanding located down gradient of surface water drainage that may potentially discharge to a watercourse. It is recommended that any stockpiled material is covered to prevent rainfall infiltration, run off, and leachate and dust generation.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

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Figures



Legend

- Ground Investigations

Name

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

GI Scoping Route

- Open cut
- Open cut - Subject to Change
- Trenchless

Draft Order Limits Sections

- F
- G
- H
- 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.

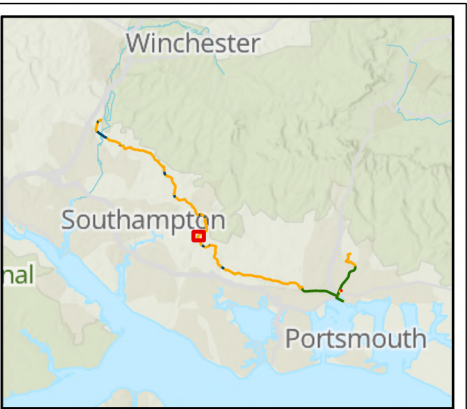
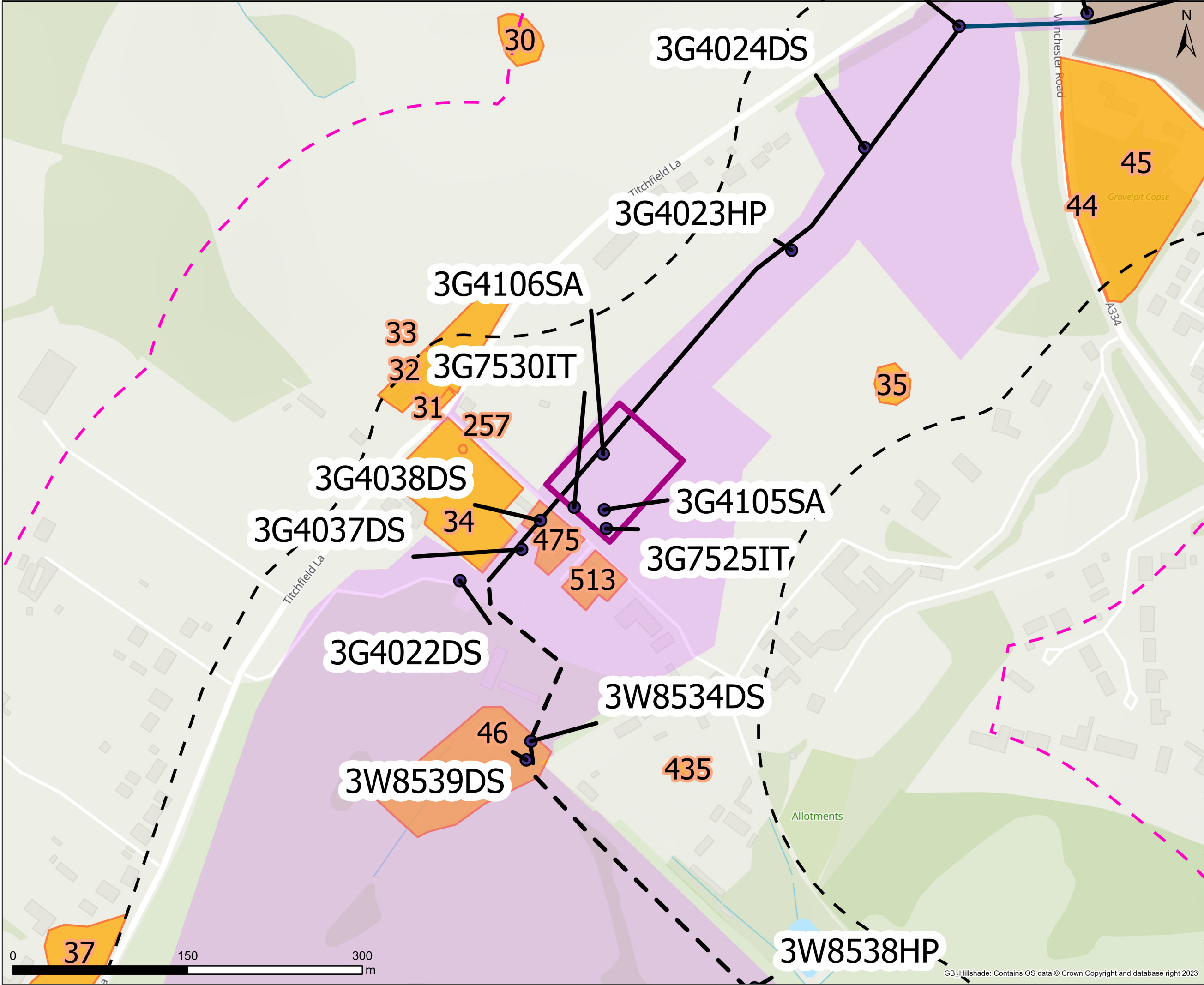


Southern Water
Southern House
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Falmer, Brighton
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Project Title
Water For Life Hampshire

Drawing Title
Section G
Ground Investigation Locations with PSCs

Scale 1:11,000	Date Drawn 16/05/2025	Page 1.1	Sheet Size A3
Originator SB	Checker GS	Reviewer AC	Approver JH
Project No. 710166-SWS-XX-XX-SK-GE-00001			Revision A



Legend

● Ground Investigations

Name

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

GI Scoping Route

- Open cut
- Open cut - Subject to Change
- Trenchless

Draft Order Limits Sections

- G
- H
- Potential Sources of Contamination

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Project Title			
Water For Life Hampshire			
Drawing Title			
Section IPS G (Detail) Ground Investigation Locations with PSCs			
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Originator	Checker	Reviewer	Approver
SB	GS	AC	JH
Project No.			Revision
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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

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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 - Pigeonhouse 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 Zetecia 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 1998 to 1999 (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 WIL 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 WIL 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 WIL UXO Report 9714 RA Section 9.1.3 / Zeticia P14032-24-R1-A Zeticia 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 WIL 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 WIL 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 G Desk Study Information Specific to the GI

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

		2G4002DS, 2G4003DS and 2G4004DS (Pipeline)
Geology	Superficial Deposits	River Terrace Deposits
	Bedrock Geology	Wittering Formation /Earnley Sand Formation
	Artificial/Made Ground ¹	None
Hydrogeology	Bedrock Aquifer Classification	Secondary A Aquifer
	Superficial Aquifer Classification	Secondary A Aquifer
	Source Protection Zones (SPZs)	None
	Groundwater Abstractions ²	560 m northeast (spray irrigation)
	Nitrate Vulnerable Zone	None
Hydrology	Surface Watercourses	Adjacent to drain/watercourse potentially flowing through Wickham Golf Course in a southeasterly direction towards the River Meon.
	Surface Water Abstractions ²	None
Flooding	Risk for Rivers and the sea	Flood Zone 1
Site History	On Site	Earliest mapping shows the GI area as undeveloped rural land. The 1937-1961 map shows a gravel pit 25 m west from the proposed route area extending south (closest distance of 20 m). It is unknown if these pits extended onto the proposed route. The route passes through Wickham Golf Club since C.1950s.
	Surrounding Land	Earliest maps show the surrounding land is rural with predominantly open undeveloped land (farmland), farms. Titchfield Copse is shown 80 m west. Webbs Land Farm buildings are shown 300 m southeast. By the 1888-1913 map part of Titchfield Copse is a gravel pit (PSC No 37). Gravel pits (PSC No's 36 and 52) are also shown 150m southeast, with an old gravel pit (labelled further south adjacent to Webbs Land Farm. The 1949-1974 map shows residential properties along Titchfield Lane 80-90 m west. The gravel pits are no longer shown. The proposed route currently passes through Wickham Golf Course at these locations.
Landfill Sites		There are no historical or current landfill sites within 250 m of the GI locations.
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 (SSSIs), SSSI	None
	Special Areas of Conservation (SAC),	
	Special Protection Areas (SPAs)	
	RAMSAR site	
	National Nature Reserve (NNR)	
	Ancient Woodlands	
Summary of Preliminary CSM	Overall Risk Assessment	PSCs 36, 37 and 52. Potential contaminant linkages with a moderate risk were identified for surface waters and groundwater, a moderate / low risk of potential impact was identified for construction works, future sites users and adjacent land users. All other potential contaminant linkages are classified as low risk.

Notes:

¹ Artificial Made Ground as identified by the BGS

² Active groundwater and surface water abstractions within 1 km; surface waters up to 250m; artificial ground up to 250m. All distances are approximate.

Table A2: Geo-environmental Desk Study Summary Information for Phase 2 and Phase 3B/3C GI Locations at Section G

		3W8529SA and 3W8530SA Trenchless Crossing	3W8535SA and 3W8536SA Trenchless Crossing	3W8534DS and 3W8539DS	3G4022DS, 3G4037DS, 3G4038DS	3G4105SA and 3G4106SA IPS-G Location	3G4024DS	3G4102SA Trenchless Crossing
Geology	Superficial Deposits	Absent	Head deposits. (Clay, silt, sand and gravel) River Terrace Deposits	River Terrace Deposits	Absent	Absent	Absent	River Terrace Deposits
	Bedrock Geology	Whitecliff Sand Member	London Clay Formation	Earnley Sand Formation	Earnley Sand Formation	Earnley Sand Formation	Earnley Sand Formation	Wittering Formation
	Artificial/Made Ground ¹	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Hydrogeology	Bedrock Aquifer Classification	Secondary A Aquifer	Unproductive Stratum	Secondary A Aquifer	Secondary A Aquifer	Secondary A Aquifer	Secondary A Aquifer	Secondary A Aquifer
	Superficial Aquifer Classification	N/A	Secondary Aquifer (undifferentiated) Secondary A Aquifer	Secondary A Aquifer	N/A	N/A	N/A	Secondary A Aquifer
	Source Protection Zones (SPZs)	None						
	Active Groundwater Abstractions ²	None	Approximately 510 m northwest.	Approximately 140 m northeast	Approximately between 150 m and 180 m southeast	Approximately 110 m southeast from footprint of IPS-G	Approximately 460 m southwest	Approximately 590 m southwest
	Nitrate Vulnerable Zone	None						
Hydrology	Surface Watercourses	Unnamed watercourse culverted beneath the A32 between the two exploratory locations.	River Meon between the two trenchless crossing points.	Approximately 120 m west to drain/watercourse potentially flowing through Wickham Golf Course in a southeasterly direction towards the River Meon.	Locations are between 100 m – 150 m northeast of small drain flowing through Wickham golf course in a southeasterly direction towards the River Meon.	70 m east, small drain that flows southwards and eventually joins the River Meon.	None	Potential road drain approximately 80 m east.
	Surface Water Abstractions ¹	None						
Flooding	Risk from Surface water flooding	High	High	Low	Low	Medium risk due to presence of drain between 70 m and 100 m southeast.	None	High risk area mapped 90 m northeast. Medium to low mapped approximately 85 m east due to road drains.
	Risk for Rivers and the sea	Flood Zone 1	Flood Zone 3	Flood Zone 1				
Site History	On Site	Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.	At 3W8535SA the earliest mapping shows the investigation area remains as undeveloped land. At 3W8536SA the earliest mapping shows	Earliest mapping shows the GI area as undeveloped rural land. The 1937-1961 map shows a gravel pit within the Section G DoL...	Earliest mapping shows the area as undeveloped farmland. In C.1990s the land to the southwest was developed as Wickham Golf Club and 3G4022DS is	Earliest mapping shows the locations remained as undeveloped farmland.		

		3W8529SA and 3W8530SA Trenchless Crossing	3W8535SA and 3W8536SA Trenchless Crossing	3W8534DS and 3W8539DS	3G4022DS, 3G4037DS, 3G4038DS	3G4105SA and 3G4106SA IPS-G Location	3G4024DS	3G4102SA Trenchless Crossing
			undeveloped land until 1987 when the Wickham WTW was likely constructed. Wickham Golf Course was opened in 1991 and the locations sit within the southeastern part of the course.	Wickham Golf Club since C.1950s.	advanced into the car park with 3G4037DS to the north. A motorhome repair garage is shown on more recent streetview photography and 3G4038DS is located adjacent to the motorhome repair garage.			
	Surrounding Land	Earliest mapping (1840-1880s) shows the surrounding land is rural. The A32 road in its present orientation runs between the two locations. C.1990's residential properties are present to the south of the GI locations.	Earliest mapping (1860s) shows the surrounding land is rural, with drainage channels present either side of the River Meon. 3W8536SA sits within the footprint of a Wastewater Treatment Works (PSC 485).	Earliest mapping (1860s) shows the surrounding land as undeveloped farmland. Between 1973 and 1994 gravel extraction was undertaken. In 1991 the Golf Course opened in which the locations are situated.	Earliest maps show the surrounding land is rural with predominantly open undeveloped land (farmland), farms. By the 1860's Titchfield Lane is present and Cold Harbour Farm adjacent approximately 150 m northwest of GI locations. A small lane is shown to cut between the IPS-G locations to the northeast and other locations to the southwest. A nursery is shown by 1949 approximately 30 m northwest/west of GI locations and is present to this day. Mapping from the 1980's shows the barn and likely another farm building location to the west and south of the GI locations.	Earliest maps show housing has developed adjacent to Titchfield Lane 100 m northwest of this GI location, otherwise the surrounding land has largely remained unchanged since c. 1860's.	Earliest (1860's) mapping shows Titchfield Lane to approximately 50 m north/northwest of GI location. Where it joins the A334 at a crossroad approximately 115 m northeast of GI location. Surrounding land has remain largely unchanged since then. Though located within Section H a gravel pit is located approximately 96 m southeast and was last active in 1868.	
Landfill Sites		There are no historical or current landfill sites within 250 m of the GI locations.						
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 (SSSIs), SSSI	None						
	Special Areas of Conservation (SAC),							
	Special Protection Areas (SPAs)							
	RAMSAR site							
	National Nature Reserve (NNR)							
	Ancient Woodlands							

		3W8529SA and 3W8530SA Trenchless Crossing	3W8535SA and 3W8536SA Trenchless Crossing	3W8534DS and 3W8539DS	3G4022DS, 3G4037DS, 3G4038DS	3G4105SA and 3G4106SA IPS-G Location	3G4024DS	3G4102SA Trenchless Crossing
Summary of Preliminary CSM	Overall Risk Assessment	N/A	Wastewater Treatment Works (PSC 485). Potential contaminant linkages with a moderate / low risk were identified for surface waters and groundwater, a moderate risk of potential impact was identified for construction works at trenchless shaft location. A moderate / low risk for future sites users and adjacent land users.	Pit – Various (PSC 46). Potential contaminant linkages with a moderate risk were identified for surface waters and groundwater, a moderate / low risk of potential impact was identified for construction works, future sites users and adjacent land users. All other potential contaminant linkages are classified as low risk.	Motorhome Repair Garage (PSC 475), Nursery Potential contaminant linkages with a moderate risk were identified for surface waters and groundwater, a moderate / low risk of potential impact was identified for construction works, future sites users and adjacent land users. All other potential contaminant	N/A	N/A	N/A

Notes:
¹ Artificial Made Ground as identified by the BGS
² Active groundwater and surface water abstractions within 1 km; surface waters up to 250m; artificial ground up to 250m. All distances are approximate.

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

Chemical	Method	LOD units		Generic Analysis - For locations not included in Suite 2.0 or where required													Farms (buildings/yards)	Fuel filling stations and garages	Electrical substations	Current and former works/industry	Current and historic railway land	STWs and Water Supply Works	Former military facility	Former hospital	Agricultural nursery building	Landfill sites / potentially infilled areas						
			Suite No.	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10	2.11	2.12	2.13	2.14	2.15	2.16
			Suite Name	Made Ground	Made Ground + add. metals + inorganics	Natural	Barrier pipe (PE/Metal)	VOCs with TICs	SVOCs with TICs	Pesticides	Herbicides	PFAS (inc PFOS / PFOA)	WAC (1-stage) inc solid suite	Core Logs (including PAK marker)	Tar analysis (PAH, phenol) - ADEPT 2019 method	Tar analysis Assessment - ADEPT 2019 method	Farms Standard	Farms Standard + VOCs +pesticides	Fuel filling & Garages	Electrical Substations	Works Standard	Works Standard + S/VOC+PCBs	General Railway land	Depots / Yards	STW Standard	STW/WSW + VOCs +PCBs	Standard	Standard + S/VOC+PCBs	Former Hospital	Agri. Nursery	Potentially infilled Land	BGS Made Ground / Landfill
BTEX																																
Benzene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
Toluene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
Ethylbenzene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
o-xylene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
m-xylene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
p-xylene	GCMS	<0.05		x	x		x										x			x	x		x		x		x			x	x	
Total BTEX	GCMS	<1.0		x	x		x										x			x	x		x		x		x			x	x	
MTBE				x	x		x										x			x	x		x		x		x			x	x	
PAH by GCMS																																
PAH 17 (total and speciated incl coronene)	GCMS	<0.1		x	x												x	x	x		x	*	x	*	x	x	x	*	x	x	x	*
PAK Marker (PAH indicator test)														x																		
PCBs																																
PCB 7 Congeners (speciated and total)	GCMS	<0.001			x														x			x		x		x		x	x	x		x
Petroleum Hydrocarbons																																
TPHCWG	GC-FID / GCMS	<0.1			x		x											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TPH >C6-C44 - with silica clean-up	GC-FID or GCMS	<1		x		x											x		x													
TPHCWG (if over 1000 mg/kg)				x		o											o															
TPH Identification (if over 1000 mg/kg)				o	o	o											o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
o - complete test if threshold reached.																																
VOCs/Semi-VOCs																																
Volatile Organic Compounds (VOCs) inc TICS	GCMS	<0.01						x										x	x			x		x		x		x	x			x
Semi-volatile Organic Compounds (SVOC) incl TICS	GCMS	<0.01					x		x													x		x				x				x
Pesticides / Herbicides																																
Pesticides (organochlorine, organophosphate)	GC-MS	<0.001								x								x													x	x
Herbicides (Organonitrogen / triazine herbicides (to include Atrazine) and acid herbicides)	LC-MS	<0.1									x							x					x	x							x	x
Other																																
Soil Organic Matter	Titration	<0.1%		x	x	x											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Conductivity	Potentiometric	<10 µS/cm		x	x	x	x										x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Redox Potential		v		x	x	x	x										x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Moisture Content Ratio (% of as received sample)	Gravimetric	<0.1%		x	x	x											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Waste Acceptance Criteria (1-stage) including solid suite	Various	Various		x	x								x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PFAS (to include PFOS and PFOA)	Lab to confirm	<0.001										x															x		x			x
Pathogens																																
Total coliforms	Lab to confirm	TBC																														
E.coli	Lab to confirm	TBC																														
Faecal coliforms	Lab to confirm	TBC																														
Faecal streptococci	Lab to confirm	TBC																														
To be confirmed																																
Radioisotopes - TBC site/PSC specific	TBC	TBC																											x	x		
Explosives TBC following UXO assessment	TBC	TBC																											x			
Road surfacing - Coal Tar																																
Coal tar interpretation															x	x																
Note - Ethylene glycol to be included in VOC TICs analysis.																																
Request lab provides the result with the lowest LOD where chemicals are tested twice using different methods (e.g benzene in BTEX suite and VOC analysis.)																																

	Analysis	LOD units			Generic Analysis - For locations not included in Suite 4 or where required									Farms	Fuel filling stations & garages	Electrical substations	Current and former works/industry		Current and historic railway land		Sewage Treatment Works (STW)	Water Supply Works (WSW)	Former military facility		Former hospital	Agricultural nursery building (storage/buildings)	Landfill sites / potentially infilled areas	
Water and Leachate Suites		µg/l unless stated	Suite No.	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10	4.11	4.12	4.13	4.14	4.15
			Suite Name	Soil leachate preparation	Standard	Standard + add. metals + inorganics	TPH CWG	VOCs with TICs	SVOCs with TICs	Pesticides	Herbicides	PFAS (inc PFOS / PFOA)	Hydrogeo Suite	Farms	Fuel filling & Garages	Electrical Substations	Works Standard	Works Standard + S/VOC+PCBs	General Railway land	Depots / Yards	STW	WSW	Military Standard	Military Standard + inorg + S/VOC	Former Hospital	Agri. Nursery	Potentially infilled Land	BGS Made Ground / Landfill
BTEX																												
Benzene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
Toluene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
Ethylbenzene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
o-xylene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
m-xylene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
p-xylene	GCMS	<0.1			x	x	x									x	x		x			x	x				x	
Total BTEX	GCMS	<1.0			x	x	x									x	x		x			x	x				x	
MTBE	GCMS	<1			x	x	x									x	x		x			x	x				x	
PAHs																												
PAH 17 (total and speciated incl coronene)	GCMS	<0.0001			x	x							x	x	x		x	*	x	*	x	x	x	*	x		x	*
PCBs																												
PCB 7 Congeners (speciated and total)	GCMS	<0.01				x										x		x		x	x		x	x				x
Petroleum Hydrocarbon																												
TPH/CWG	GCMS	<1.0				x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TPH >C6-C44	GC-FID or GCMS	<10			x								x															
Free product Identification (if found)					o	o								o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
VOCs/Semi-VOCs																												
Volatile Organic Compounds (VOCs) inc TICs	GCMS	<0.001						x						x	x		x		x	x	x		x	x				x
Semi-volatile Organic Compounds (SVOC) incl TICs	GCMS	<0.001							x								x		x				x					x
Pesticides / Herbicides																												
Pesticides (organochlorine, organophosphate)	GC-MS	<0.001								x				x													x	x
Herbicides (Organonitrogen / triazine herbicides (to include Atrazine) and acid herbicides)	LC-MS	<0.001									x			x					x	x							x	x
Other																												
Conductivity	Potentiometric	<1 µS/cm			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Redox Potential		v																				x						x
Total hardness (as CaCO3)	ICP-OES / MS	1 mg CaCO3/L			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Total dissolved solids (TDS)	Gravimetric	10 mg/l			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PFAS (to include PFOS and PFOA)	Lab to confirm	<0.001 (total)										x									x			x				x
Pathogens																												
Total coliforms	Lab to confirm	TBC																				x						
E.coli	Lab to confirm	TBC																				x						
Faecal coliforms	Lab to confirm	TBC																				x						
faecal streptococci	Lab to confirm	TBC																				x						
Soil leachate preparation				x																								
Note - Ethylene glycol to be included in VOC TICs analysis.																												

Table B.1 Summary of Geo-environmental Laboratory Tests

Analysis Suites ¹																		
Sample ID		Soils											Leachate (Including Suite 3.0 Leachate Preparation)					
	Suite No.	Suite 1.1	Suite 1.3	Suite 1.4	Suite 1.7	Suite 1.8	Suite1.10	Suite 1.15	Suite 2.1	Suite 2.2	Suite 2.9	Suite 2.10	Suite 3.1	Suite 3.3	Suite 3.6	Suite 3.7	Suite3.14	Suite 3.8
	Sample Depth (m bgl)	Made Ground	Natural ²	Barrier Pipe	Pesticides	Herbicides	WAC	Potentially Infilled Land including WAC	Farms	Farms Standard, VOCs and pesticides	STW Standard	STW, VOCs, PCBs	Standard leachate	TPHCWG	Pesticides	Herbicides	Potentially infilled land	STW
2G4000SA	0.1	R			R	R							R		R	R		
	3.0		R															
	6.0		R															
2G4001SA	0.5		✓										R					
	3.0		✓										R					
	11.0		✓															
2G4002DS	0.1							✓									eR	
	1.0							✓									eR	
	2.8							✓										
2G4003DS	0.1							✓									R	
	1.0							✓									R	
	2.8							✓										
	3.7							✓									✓	
2G4004DS	0.1							✓										
	0.5							✓									R	
	2.45							✓									R	
3G4022DS	0.2									✓								
	1.1									✓								
	3.5		✓						✓				✓					
3G4023HP	0.5	✓																
3G4024DS	1.0	✓																
	2.9	✓																
3G4037DS	0.5																	
	2.6																	
	4.6																	
3G4038DS	0.1								✓									
	1.0								✓									
	3.8		✓	✓									✓	✓				
3G4102SA	0.1	✓																
	1.0		✓															
	5.0		✓															
	18.0		✓															
3G4105SA	1.0									✓								
	2.8									✓								

[illegible]

Analysis Suites ¹

Sample ID		Soils											Leachate (Including Suite 3.0 Leachate Preparation)					
	Suite No.	Suite 1.1	Suite 1.3	Suite 1.4	Suite 1.7	Suite 1.8	Suite1.10	Suite 1.15	Suite 2.1	Suite 2.2	Suite 2.9	Suite 2.10	Suite 3.1	Suite 3.3	Suite 3.6	Suite 3.7	Suite3.14	Suite 3.8
	Sample Depth (m bgl)	Made Ground	Natural ²	Barrier Pipe	Pesticides	Herbicides	WAC	Potentially Infilled Land including WAC	Farms	Farms Standard, VOCs and pesticides	STW Standard	STW, VOCs, PCBs	Standard leachate	TPHCWG	Pesticides	Herbicides	Potentially infilled land	STW
	0.8							✓										
Total completed / requested	1/1	1/1	3/5	1/1	1/1	1/1	3/3	12/12	3/3	4/4	3/3	1/1	0/3	1/1	0/1	0/1	3/7	1/1

Summary based on laboratory results in SOCOTEC Ground Investigation Report (SOCOTEC, 2023), (SOCOTEC, 2024), AGS dataset and Schedules

¹ List of analytes included in each suite is presented in **Appendix B**.

² No nickel analysis included in metals suite

✓ Requested and completed.

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).

R Requested and not received. Not received in either AGS format or Final Factual GI report due to lab instrumental error.

Table B.2: Summary of Geo-environmental Laboratory Groundwater Tests

Groundwater Analysis Suites							
BH ID	Suite 3.1 Standard	Suite 3.9 Hydrogeology	Suite 4.1 Farms	Suite 4.13 Nursery (Agri)	Suite 4.14 Potentially infilled land	Suite 4.2Fuel fulling & Garages	Suite 4.8 STW
2G4000SA	✓ 16/05/2023 14/07/2023 11/09/2023	✓ 16/05/2023 14/07/2023 11/09/2023					
2G4001SA	✓ 15/07/2023 14/09/2023	✓ 15/07/2023 14/09/2023					
3G4022DS			✓ 24/04/204	✓ 01/05/24 14/05/24			
3G4037DS						✓ 07/05/24 15/05/24 31/05/24	
3G4038DS						✓ 03/05/24 15/05/24 31/05/24	
3G4102SA	✓ 03/05/24 15/05/24 31/05/24						
3W8529SA	✓ 19/06/24 02/07/24						

Groundwater Analysis Suites							
BH ID	Suite 3.1 Standard	Suite 3.9 Hydrogeology	Suite 4.1 Farms	Suite 4.13 Nursery (Agri)	Suite 4.14 Potentially infilled land	Suite 4.2Fuel fulling & Garages	Suite 4.8 STW
	17/07/24						
3W8530SA	✓ 19/06/24 02/07/24 17/07/24						
3W8534DS					✓ 03/05/24 R 15/05/24 31/05/24		
3W8535SA	✓ 22/05/24 R 28/05/24 18/06/24						
3W8536SA							✓ 03/05/24 01/05/24 29/05/24
3W8539DS					✓ 24/04/2024 01/05/2024 14/05/2024		

R

eR

X

N/A

Requested but not received to date in either AGS format or Ground Investigation Report (SOCOTEC, 2023) (SOCOTEC, 2024).

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).

Received instead of Leachates.

Not applicable

Appendix C: Deviations Reported by Analytical Laboratory

The holding times for the following samples were exceeded.

1. 2G4000SA 11.70 m water sample: GRO (>C6-C10) Total & Calc BTEX & MTBE by GCMS, 17 PAHs (inc. Coronene) by GCMS, Cyanide Free and Total, Electrical conductivity and pH all exceeded holding time.
2. 2G4002DS 0.1 and 1.0 m BTEX by GCFID, for WAC and MTBE by GCFID, chloride by colorimetry and in solids, pH (2.5:1), cyanide complex, free and total, LOC: leached organic carbon, leached organic carbon in solids exceeded holding time and asbestos sample weights less than 1kg.
3. 2G4002DS 2.8 m, GRO CWG UK (C5-C10) Ali/Aro Split, BTEX by GCFID, for WAC and MTBE by GCFID exceeded holding time.
4. 2G4003DS 0.10m and 1.00m Ammoniacal Nitrogen, chloride by colorimetry and in solids, nitrate as NO₃ and NO₂ by colorimetry, thiocyanate by colorimetry, chromium VI by colorimetry, low level phenols by GCMS, 17 PAHs (inc. Coronene) by GCMS, cyanide complex, free and total, TPH (CWG UK) Aliphatic Split with Carbon Banding and TPH (CWG UK) Aromatic Split with Carbon Banding exceeded holding times.
5. 2G4003DS 2.8 m pH (2.5:1) exceeded holding time.
6. 2G4003DS 3.7 m pH (2.5:1) cyanide complex, free and total exceeded holding time.
7. 2G4004DS 0.10 m chloride by colorimetry and in solids, nitrate as NO₃ and NO₂ by colorimetry, thiocyanate by colorimetry, chromium VI by colorimetry, Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2), Sulphide by SFA, exceeded holding times.
8. 2G4004DS 0.50m Ammoniacal Nitrogen as NH₃, chloride by colorimetry and in solids, nitrate as NO₃ and NO₂ by colorimetry, thiocyanate by colorimetry, chromium VI by colorimetry, Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2), Sulphide by SFA, LOC: Leached Organic Carbon, TPH (CWG UK) Aliphatic Split with Carbon Banding and TPH (CWG UK) Aromatic Split with Carbon Banding and leached organic carbon in solids, exceeded holding times.
9. 3G4022DS 3.50 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO (>C6-C10) Total, BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS exceeded holding times.
10. 3G4037DS 4.60 m TPH (>C6-C40) Total (Calc), BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS, exceeded holding times.
11. 3G4037DS 0.50 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO (>C6-C10) Total, TPH (>C6-C40) Total (Calc), BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS, exceeded holding times.
12. 3G4038DS 3.80 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO (>C6-C10) Total, exceeded holding times.
13. 3G7530IT 0.50 m BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS, exceeded holding times.
14. 3W8526HP 0.50 and 0.95 m TPH (>C10-C40) Total with Silica Cleanup, exceeded holding times.
15. 3W8528HP 0.50 and 1.00 m GRO (>C6-C10) Total, pH (2.5:1), exceeded holding times.
16. 3W8529SA 0.50 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO (>C6-C10) Total, PAHs (inc. Coronene) for WAC by GCMS, pH (2.5:1), exceeded holding times.
17. 3W8529SA 1.80 and 5.50 m GRO (>C6-C10) Total, pH (2.5:1), TPH (>C10-C40) Total with Silica Cleanup, exceeded holding times.

18. 3W8530SA 6.00 m GRO (>C6-C10) Total, BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS, exceeded holding times.
19. 3W8531HP 0.50 and 1.00 m GRO (>C6-C10) Total exceeding holding time.
20. 3W8534DS 0.50 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID exceeding headspace and holding time. GRO CWG UK (C5-C10) Ali/Aro Split, Phenols Suite by HPLC UV, pH (2.5:1), Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2) Filtered, Sulphide by SFA, Thiocyanate by SFA, exceeded holding times.
21. 3W8539DS 0.10 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID exceeding headspace and holding time. GRO CWG UK (C5-C10) Ali/Aro Split, Phenols Suite by HPLC UV, pH (2.5:1), Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2) Filtered, Sulphide by SFA, Thiocyanate by SFA, exceeded holding times.
22. 3W8534DS 2.50 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, pH (2.5:1), Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2) Filtered, Sulphide by SFA, Thiocyanate by SFA, exceeded holding times.
23. 3W8534DS 3.80 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, exceeded holding times.
24. 3W8535SA 2.00 and 4.50 m Low Level Phenols by GCMS, Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2) Filtered, Sulphide by SFA, Thiocyanate by SFA, exceeded holding times.
25. 3W8536SA 1.00 and 2.90 and 7.00 m BTEX by GCFID, BTEX for WAC by GCFID, MTBE by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, PFOS & PFOA by LC-MSMS, PHEMS, VOCHSAS, Cyanide (Complex) by SFA, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Phenol Index (Total) by SFA, Phenol Index in Solids (BSEN 12457-2) Filtered, Sulphide by SFA, Thiocyanate by SFA, exceeded holding times.
26. 3W8560HP 1.00 m TPH (>C10-C40) Total with Silica Cleanup, BTEX & MTBE by GCMS, VOCs (Target List and TICs) by GCMS, exceeded holding times.
27. 3G4022DS 3.04 m Electrical Conductivity @ 25°C, pH, Low Level Phenols by GCMS, exceeded holding times.
28. 3G4037DS 5.05 m 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding exceeded holding times.
29. 3G4038DS 2.00 m 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
30. 3G4102SA 12.00 m 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (>C6-C40) Total (Calc), exceeded holding times.
31. 3G4102SA 10.87 m Electrical Conductivity @ 25°C, pH, TPH (>C6-C40) Total (Calc), exceeded holding times.
32. 3G4038DS 1.01 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, Electrical Conductivity @ 25°C, pH, exceeded holding times.
33. 3G4037DS 5.10 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, Electrical Conductivity @ 25°C, pH, exceeded holding times.
34. 3W8534DS 2.85 m 17 PAHs (inc. Coronene) by GCMS, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times and were in an incorrect container. Electrical Conductivity @ 25°C, pH exceeded holding times and Low Level Phenols by GCMS identified in an incorrect container.
35. 3W8534DS 2.83 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (CWG UK) Aliphatic Split with Carbon Banding,

- TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times. 17 PAHs (inc. Coronene) by GCMS, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding identified in an incorrect container and Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA identified as incorrect/no preservative.
36. 3G4022DS 1.40 m Acid Herbicides (Suite 1) by LC/MS/MS, BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
 37. 3W8538DS 1.46 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, Low Level Phenols by GCMS, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
 38. 3W8535SA 1.17 m Electrical Conductivity @ 25°C, pH, Low Level Phenols by GCMS, exceeded holding times.
 39. 3W8535SA 7.00 m Electrical Conductivity @ 25°C, pH.
 40. 3W8536SA 3.81 m 17 PAHs (inc. Coronene) by GCMS, PFOS & PFOA by LC-MSMS, Low Level Phenols by GCMS, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times. Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA identified as incorrect/no preservative.
 41. 3W8536SA 5.50 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
 42. 3W8538DS 1.46 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, Low Level Phenols by GCMS, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
 43. 3W8539DS 1.40 m BTEX by GCFID, GRO CWG UK (C5-C10) Ali/Aro Split, 17 PAHs (inc. Coronene) by GCMS, Electrical Conductivity @ 25°C, pH, Low Level Phenols by GCMS, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, TPH (CWG UK) Aliphatic Split with Carbon Banding, TPH (CWG UK) Aromatic Split with Carbon Banding, exceeded holding times.
 44. 3W8539DS 1.55 m Electrical Conductivity @ 25°C, pH, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, exceeded holding times.
 45. 3W8536SA 10.00 m Electrical Conductivity @ 25°C, pH, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, exceeded holding times.
 46. 3G4022DS 2.30 m Electrical Conductivity @ 25°C, pH, Cyanide (Free) by SFA, Cyanide (Total) by SFA, Sulphide by SFA, exceeded holding times.

Appendix D: Geo-Environmental Laboratory Analysis Summary Screening Tables

	Screening Criteria	S4UL Reference Page	Sample ID	3G4022DS	3G4022DS	3G4022DS	3G4023HP	3G4024DS	3G4024DS	3G4037DS	3G4037DS	3G4037DS	3G4037DS	3G4038DS	3G4038DS	3G4038DS	3G4102SA	3G4102SA	3G4102SA	3G4102SA	3G4105SA	3G4105SA	3G4105SA	3G4105SA	3G4106SA	3G4106SA	3G4106SA
	GAC Land Use	Commercial	Sample Depth	0.2	1.1	3.5	0.5	1.0	2.9	0.5	2.6	4.6	0.1	1.0	3.8	0.1	1.0	18.0	5.0	1.0	14.1	2.8	30.0	0.5	2.8	4.3	
Analyte	SOM	1.0%	Sample GEOL GEOL	RTD	RTD	RTD	RTD	RTD	EA	MGR	EA	EA	MGR	EA	EA	TOP	RTD	RTD	WTT	RTD	RTD	EA	WTT	RTD	RTD	EA	
Metals	Units		Lab ID	#7140306335460001	#7140306335460007	G4011-24 Phase 38/C202403221 12133	#486269075649 0002	#203789708299 0007		#772745243167 0004	G4011-24 Phase 38/C202403221 13517	G4011-24 Phase 38/C202403221 14716	#976044672994 0002	#976044672994 0007	G4011-24 Phase 38/C202404101 12318	#852899295208 0008	#852899295208 0044	#852899295208 0020	#240290209296 0012	#240290209296 0059	#240290209296 0021	#106798844461 0107	#543216432231 0006	#061012159595 0039	#061012159595 0040	#061012159595 0043	
Arsenic	mg/kg	640		13.4	6	4.3	21.4	13.5	3	10.7	2.9	8.1	12.4	8.5	4	9	5.4	8.6	2.1	6.6	3.3	3.5	3.3	12.7	5.8	1.8	3.7
Cadmium	mg/kg	190		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	mg/kg	8600		35.1	10.9	11.1	27.3	42.4	12.2	22.8	9.6	19.1	18.7	22.5	14.3	18	19	24	13.5	123	13.2	16.4	30.1	39.5	8.2	11.1	9.7
Chromium, Hexavalent	mg/kg	33		<0.1	0.5	<0.1	0.3	1.2	<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	<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		8.4	10.3	11.1	8.9	9.3	3.5	10.1	4.6	8.2	18	11.7	11.7	11.4	13.1	12.8	3.6	103.8	5.6	5.4	11.2	11.3	9.6	5.8	5.5
Lead	mg/kg	1100		12.5	34.6	26.2	23.2	13.5	5.3	32	5.2	8.6	18	8.4	7.3	28.3	7.1	10.7	5.5	64.6	6.8	7.4	11.8	12.2	16.8	6.3	4.8
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	<0.5
Methylmercury	mg/kg	320																									
Nickel	mg/kg	980		9	5	13.2	8.1	8.6	3.4	9.8	9.6	5	4.2	3.4		6.9			19.6		4.4		6.9	4.7	3.7		
Zinc	mg/kg	730000		32.6	35.5	44.1	34.2	29.4	<16.0	57	23.5	33.4	29.8	23.2	<16.0	42.8	<16.0	55	<16.0	314	31.6	18.7	81.1	21.4	65.8	18.8	18.2
Beryllium	mg/kg	12																									
Boron, water soluble	mg/kg	240000																			0.8		<0.5				<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			421	154	172	205	197	108	336	133	123	283	117	125	424	91	768	210	1400	520	55	515	81	437	78	64
Sulphide, Easily liberated	mg/kg			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.3	<0.6	<0.6	<0.6	<0.6		<0.6				2.3		<0.6		<0.6	<0.6	<0.7	
Chloride	mg/kg																										
Cyanide, Free	mg/kg																										
Cyanide, Total	mg/kg																										
Cyanide, Complex	mg/kg																										
Thiocyanate	mg/kg																										
Ammonia	mg/kg																										
% Stones Greater than 10mm	%			18	3.5	3.6	26.5	40	34.2	2.7	1.5	<0.1	4.2	2	<0.1	<0.1	<0.1	<0.1	<0.1	5.6	<0.1	4.5	<0.1	<0.1	6.6	<0.1	<0.1
Asbestos	Identified			NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	CH	NAIIS		NAIIS		NAIIS		NAIIS		NAIIS		NAIIS	NAIIS	NAIIS	NAIIS
pH	pH			6.8	7.1	7.1	6.7	6.6	5	7.9	6.1	6.9	7.9	7.9	6	7.4	7.7	7.8	5.9	8.4	7.2	8	7.6	8.1	8.5	8.3	8
Soil Organic Matter	%			1.66	0.71	0.32	0.6	0.92	0.3	2.19	0.21	0.37	1.02	0.4	0.4	2.11	0.42	1.22	0.32	12.8	0.16	0.27	0.57	0.77	0.52	0.81	0.61
Phenols																											
Phenol	mg/kg	440		<0.03	<0.04	<0.03	<0.10	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.1	<0.11			0.15		<0.11		<0.12	<0.10	<0.12	
Chlorophenols	mg/kg	3500		<0.05(4-Chlorophenol), <0.03(2,4-Dichlorophenol), <0.02(2,4,6-Trichlorophenol), <0.03(2-Chlorophenol), <0.02(2,4,5-Trichlorophenol)	<0.05(4-Chlorophenol), <0.04(2,4-Dichlorophenol), <0.02(2,4,6-Trichlorophenol), <0.04(2-Chlorophenol), <0.02(2,4,5-Trichlorophenol)	<0.04(4-Chlorophenol), <0.03(2,4-Dichlorophenol), <0.02(2,4,6-Trichlorophenol), <0.03(2-Chlorophenol), <0.02(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		<0.03	<0.04	<0.03									<0.6					<0.10		<0.10					
Catechol	mg/kg																										
Resorcinol	mg/kg																										
Cresols	mg/kg						0.27	0.34	<0.11	0.23	0.21	0.21	<0.11	<0.12		<0.11			0.37		0.2		<0.12	<0.10	<0.12	<0.12	
Xylenols & Ethylphenols	mg/kg						<0.10	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11			<0.14		<0.11		<0.12	<0.10	<0.10	<0.12	
Naphthols	mg/kg																										
Trimethylphenol	mg/kg						<0.10	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12		<0.11			<0.14		<0.11		<0.12	<0.10	<0.12		
2,4-Dimethylphenol	mg/kg			<0.02	<0.02	<0.02																					
Total Phenols	mg/kg			<0.53	<0.57	<0.52	0.56	0.72	<0.44	0.54	0.53	0.55	<0.42	<0.46		<0.45			0.79		0.53		<0.47	<0.41	<0.49		
BTEX																											
Benzene	mg/kg	27		<0.012	<0.012	<0.011	<0.011	<0.013	<0.012	<0.011	<0.011	<0.012	<0.011	<0.012	<0.001	<0.012			<0.002		<0.001		<0.012	<0.011	<0.013		
Toluene	mg/kg	56000 (869)		<0.012	<0.012	<0.011	<0.011	<0.013	<0.012	<0.011	<0.011	<0.012	<0.011	<0.012	<0.006	<0.012			<0.008		<0.007		<0.012	<0.011	<0.013		
Ethylbenzene	mg/kg	5700 (518)		<0.012	<0.012	<0.011	<0.011	<0.013	<0.012	<0.011	<0.011	<0.012	<0.011	<0.012	<0.002	<0.012			<0.003		<0.003		<0.012	<0.011	<0.013		
o-xylene	mg/kg	6600 (478*)		<0.012	<0.012	<0.011	<0.011	<0.013	<0.012	<0.011	<0.011	<0.012	<0.011	<0.012	<0.002	<0.012			<0.003		<0.003		<0.012	<0.011	<0.013		
m-xylene	mg/kg	6200 (625)																									
p-xylene	mg/kg	5900 (576*)																									
m,p-xylene		#N/A		<0.023	<0.025	<0.022	<0.022	<0.026	<0.024	<0.023	<0.022	<0.025				<0.005	<0.024			<0.006		<0.005		<0.024	<0.022	<0.027	
Total Xylenes (calculated for HWO)	mg/kg	#N/A		<0.035	<0.037	<0.033	<0.033	<0.039	<0.036	<0.034	<0.033	<0.037	<0.011	<0.012	<0.007	<0.036	0	0	0	<0.009	0	<0.008	0	<0.036	<0.033	<0.04	0
Total BTEX		#N/A		<0.069	<0.074	<0.067	<0.066	<0.076	<0.072	<0.068	<0.067	<0.074	<0.067	<0.071	<0.073	<0.073	<0.092	<0.071		<0.092		<0.071		<0.072	<0.066	<0.080	
MTBE		#N/A		<0.023	<0.025	<0.022	<0.022	<0.026	<0.024	<0.023	<0.022	<0.025	<0.022	<0.024	<0.001	<0.024			<0.002		<0.001		<0.024	<0.022	<0.027		
PAH by GCMS																											
Naphthalene	mg/kg	190 (76.4*)		<0.09	<0.10	<0.09	<0.09	<0.10																			

	Screening Criteria GAC Land Use	S4UL Reference Page Commercial 1.0%	Sample ID Sample Depth Sample GEOL GEOL	3G7525IT 0.5 RTD	3G7525IT 1.0 RTD	3G7530IT 0.5 RTD	3G7530IT 1.0 RTD	3W8526HP 0.5 Head	3W8526HP 1.0 Head	3W8528HP 0.5 Head	3W8528HP 1.0 WHI	3W8529SA 0.5 WTT	3W8529SA 1.8 WTT	3W8529SA 5.5 WTT	3W8530SA 0.3 WTT	3W8530SA 1.0 WTT	3W8530SA 3.0 WTT	3W8530SA 6.0 WTT	3W8531HP 0.5 Head	3W8531HP 1.0 LC	3W8532HP 0.5 Head	3W8532HP 1.0 WHI	3W8534DS 0.5 MGR	3W8534DS 2.5 RTD	3W8534DS 3.8 EA	3W8535SA 0.5 Head	3W8535SA 12.9 Head	3W8535SA 2.0 Head
Analyte	SOM																											
Metals	Units		Lab ID	#529824408948 0004	#529824408948 0007	#283849835993 0005	#283849835993 0008	#857209375526 0004	#857209375526 0005	#113875569362 0004	#113875569362 0005	#926146677659 0004			G4011-24 Phase 3B/C202405291 03237	G4011-24 Phase 3B/C202405291 03337	G4011-24 Phase 3B/C202405291 03756	G4011-24 Phase 3B/C202405301 24810	G4011-24 Phase 3B/C202405291 10429	G4011-24 Phase 3B/C202405291 10458	#368344845887 0004	#368344845887 0005	#597975715807 0003	#597975715807 0011	#597975715807 0014	#424222121212 0006	#424222121212 0044	#424222121212 0013
Arsenic	mg/kg	640		12	11	5.8	11.4	10.4	15	23.3	2.8	2.2	6.4	8.9	9.7	8.8	10.4	2.6	7.9	9.8	2.4	3.9	8.3	1.5	3.7	5.6	8.6	6.5
Cadmium	mg/kg	190		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	mg/kg	8600		16.2	39.3	16.7	23.5	23.7	41.8	39.1	15.2	7.5	17.8	12.5	27.3	25.8	21.5	13.1	17	28	13.5	20.2	16.7	4.8	10.3	15.6	26.3	31.3
Chromium, Hexavalent	mg/kg	33		0.3	<0.1	0.2	0.6	<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	<0.3	<0.1	0.2	<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	0.6	0.8	<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		9.1	7.7	4.6	12.8	7.2	11.8	19.7	4.1	5.2	15.1	6.9	11.1	10.9	12.5	9	7.8	8	3.4	8.3	7.2	<1.6	3.9	8.6	11.5	12.1
Lead	mg/kg	1100		15.4	11.7	6.3	7.4	15.2	12.9	13.9	3.1	5.4	23.3	5.9	13.7	11.1	10.6	4	18.8	12	10.1	4.8	29	2.9	5.9	15.1	9.2	9.3
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	<0.5	<0.5
Methylmercury	mg/kg	320																										
Nickel	mg/kg	980		7.6	9.2	5	6.4																5.9	2.8	3.3			
Zinc	mg/kg	730000		40	28.1	17	28.3	35	42.4	69.1	<16.0	<16.0	52.7	25.2	50.4	50.5	52.9	27.8	38.2	37.1	20.9	<16.0	42.1	24.3	<16.0	37.6	64.8	59.6
Beryllium	mg/kg	12																										
Boron, water soluble	mg/kg	240000			<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	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	0.6
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			231	238	148	121	588	571	419	321	108	315	1500	148	98	651	221	368	128	938	134	345	115	151	321	551	54
Sulphide, Easily liberated	mg/kg			<0.6	<0.6	<0.6	<0.6																<0.6	<0.5	<0.5			
Chloride	mg/kg																											
Cyanide, Free	mg/kg																						<0.6	<0.5	<0.5			
Cyanide, Total	mg/kg																						<0.6	<0.5	<0.5			
Cyanide, Complex	mg/kg																											
Thiocyanate	mg/kg																											
Ammonia	mg/kg																						<2.4	<2.1	<2.1			
% Stones Greater than 10mm	%			77.1	64.9	54.5	71.1	0.3	0.6	3.8	4.2	3.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	2.1	1.7	7.7	1.9	0.4	<0.1	<0.1
Asbestos	Identified			NAIIS	NAIIS	NAIIS	NAIIS																NAIIS	NAIIS	NAIIS			
pH	pH			7.3	7.2	7.5	7.4	8.2	7.9	7.8	7.7	7.9	7.1	7.2	6.9	6.9	6.1	7	6.1	6.5	7.5	7.7	8.5	8.1	8	8.1	8.2	7
Soil Organic Matter	%			0.85	0.4	0.37	0.57	0.69	0.57	0.69	0.44	0.35	0.74	0.4	0.68	0.53	0.91	0.31	1.41	0.83	0.98	0.79	1.2	0.19	0.31	1.32	0.67	0.86
Phenols																												
Phenol	mg/kg	440		<0.03	<0.11	<0.11	<0.04																<0.12	<0.10	<0.10			
Chlorophenols	mg/kg	3500		<0.05(4-Chlorophenol), <0.03(2,4-Dichlorophenol) , <0.02(2,4,6-Trichlorophenol) , <0.03(2-Chlorophenol), <0.02(2,4,5-Trichlorophenol))			<0.05(4-Chlorophenol), <0.04(2,4-Dichlorophenol) , <0.02(2,4,6-Trichlorophenol) , <0.04(2-Chlorophenol), <0.02(2,4,5-Trichlorophenol))																					
Pentachlorophenol	mg/kg	400		<0.03			<0.04																					
Catechol	mg/kg																											
Resorcinol	mg/kg																											
Cresols	mg/kg				0.26	0.31																	0.25	0.1	0.19			
Xylenols & Ethylphenols	mg/kg			<0.11	<0.11	<0.11																	<0.12	<0.10	<0.10			
Naphthols	mg/kg																											
Trimethylphenol	mg/kg				<0.11	<0.11																	<0.12	<0.10	<0.10			
2,4-Dimethylphenol	mg/kg			<0.02			<0.02																					
Total Phenols	mg/kg			<0.52	0.58	0.64	<0.54																0.61	<0.40	0.49			
BTEX																												
Benzene	mg/kg	27		<0.011	<0.001	<0.001	<0.012					<0.012				<0.012	<0.013						<0.012	<0.010	<0.011			
Toluene	mg/kg	56000 (869)		<0.011	<0.005	<0.006	<0.012					<0.012				<0.012	<0.013						<0.012	<0.010	<0.011			
Ethylbenzene	mg/kg	5700 (518)		<0.011	<0.002	<0.002	<0.012					<0.012				<0.012	<0.013						<0.012	<0.010	<0.011			
o-xylene	mg/kg	6600 (478*)		<0.011	<0.002	<0.002	<0.012					<0.012				<0.012	<0.013						<0.012	<0.010	<0.011			
m-xylene	mg/kg	6200 (625)																										
p-xylene	mg/kg	5900 (576*)																										
m,p-xylene	mg/kg	#N/A		<0.023	<0.004	<0.005	<0.024																<0.024	<0.021	<0.021			
Total Xylenes (calculated for HWO)	mg/kg	#N/A		<0.034	<0.006	<0.007	<0.036	0	0	0	0	<0.012	0	0	0	<0.012	<0.013	0	0	0	0	0	<0.036	<0.031	<0.032	0	0	0
Total BTEX	mg/kg	#N/A		<0.068	<0.071	<0.069	<0.071					<0.072				<0.073	<0.076						<0.071	<0.062	<0.063			
MTBE	mg/kg	#N/A		<0.023	<0.001	<0.001	<0.024																<0.024	<0.021	<0.021			
PAH by GCMS																												
Naphthalene	mg/kg	190 (76.4*)		<0.09	<0.005	<0.006	<0.09					<0.10				<0.10	<0.10						<0.10	<0.08	<0.08			
Acenaphthylene	mg/kg	83000 (86.1*)		<0.09	<0.09	<0.09	<0.09					<0.10				<0.10	<0.10						<0.10	<0.08	<0.08			
Acenaphthene	mg/kg	84000 (57*)		<0.09	<0.09	<0.09	<0.09					<0.10				<0.10	<0.10						<0.10	<0.08	<0.08			
Fluorene	mg/kg	63000 (30.9*)		<0.09	&lt																							

	Screening Criteria	S4UL Reference Page	Sample ID	3G7525IT	3G7525IT	3G7530IT	3G7530IT	3W8526HP	3W8526HP	3W8528HP	3W8528HP	3W8529SA	3W8529SA	3W8529SA	3W8530SA	3W8530SA	3W8530SA	3W8530SA	3W8531HP	3W8531HP	3W8532HP	3W8532HP	3W8534DS	3W8534DS	3W8534DS	3W8535SA	3W8535SA	3W8535SA
	GAC Land Use	Commercial	Sample Depth	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.8	3.5	0.3	1.0	3.0	6.0	0.5	1.0	0.5	1.0	0.5	2.5	3.8	0.5	12.9	2.0
Analyte	SOM	1.0%	Sample GEOL GEOL	RTD	RTD	RTD	RTD	Head	Head	Head	WHI	WTT	WTT		WTT	WTT			Head	LC	Head	WHI	MGR	RTD	EA	Head	Head	Head
Metals	Units		Lab ID	#5298244089480004	#5298244089480007	#2838498359930005	#2838498359930008	#8572093755260004	#8572093755260005	#1138755693620004	#1138755693620005	#9261466776590004			G4011-24 Phase 3B/C/20240529103237	G4011-24 Phase 3B/C/20240529103337	G4011-24 Phase 3B/C/20240529103756	G4011-24 Phase 3B/C/20240530124810	G4011-24 Phase 3B/C/20240529110429	G4011-24 Phase 3B/C/20240529110458	#3683448458870004	#3683448458870005	#5979757158070003	#5979757158070011	#5979757158070014	#4242221212120006	#4242221212120044	#4242221212120013
Aromatics >EC21-EC35	mg/kg	28000		<11.4	<11.8	<11.5	<11.8																20.6	<10.3	<10.5			
Aromatics >EC35-EC44	mg/kg	28000		<6.83	<7.10	<6.88	<7.08																7.21	<6.20	<6.28			
Alil&Aro EC44-70	mg/kg	28000																										
Petrol Range Organics^	mg/kg			<0.228	<0.237	<0.229	<0.236																<0.238	<0.207	<0.209			
Diesel Range Organics^	mg/kg																											
Sum of C5-C44 Alil/Aro (CWG)	mg/kg	#N/A		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.91	30.02	15.55	0.00	0.00	0.00
TPH >C10-C40	mg/kg			<22.8	<23.7	25.9	24.9	109	37.1	<22.2	55	24.1	31.6	<23.0	<24.2	<24.3	<25.3	<26.1	<24.1	<25.8	58.5	<23.2	69.6	<20.7	24.1	29.4	90.2	<25.7
1,2,4-Trimethylbenzene	mg/kg				<0.001	<0.001																						
Isopropylbenzene	mg/kg				<0.001	<0.001																						
Propylbenzene	mg/kg				<0.001	<0.001																						
Styrene	mg/kg				<0.001	<0.001																						
TPH MAX Value (for HWO)				0	0	25.9	24.9	109	37.1	0	55	24.1	31.6	0	0	0	0	0	0	0	58.5	0	69.6	30.02	24.1	29.4	90.2	0
Volatile Organic Compounds																												
Vinyl Chloride	mg/kg	0.059			<0.001	<0.001																						
1,1-Dichloroethene	mg/kg				<0.001	<0.001																						
Dichloromethane	mg/kg																											
trans-1,2-Dichloroethene	mg/kg				<0.001	<0.001																						
1,1-Dichloroethane	mg/kg				<0.001	<0.001																						
2,2-Dichloropropane	mg/kg				<0.002	<0.002																						
cis-1,2-Dichloroethene	mg/kg				<0.005	<0.006																						
Bromochloromethane	mg/kg				<0.001	<0.001																						
Chloroform	mg/kg	99			<0.001	<0.001																						
1,1,1-Trichloroethane	mg/kg	660			<0.001	<0.001																						
Carbontetrachloride	mg/kg	2.9			<0.001	<0.001																						
1,1-Dichloropropene	mg/kg				<0.001	<0.001																						
1,2-Dichloroethane	mg/kg	0.67			<0.001	<0.001																						
1,2-Dichloropropane	mg/kg				<0.001	<0.001																						
Dibromomethane	mg/kg				<0.001	<0.001																						
Bromodichloromethane	mg/kg				<0.001	<0.001																						
trans-1,3-Dichloropropene	mg/kg				<0.001	<0.001																						
cis-1,3-Dichloropropene	mg/kg				<0.001	<0.001																						
1,1,2-Trichloroethane	mg/kg				<0.001	<0.001																						
1,3-Dichloropropane	mg/kg				<0.001	<0.001																						
Dibromochloromethane	mg/kg				<0.001	<0.001																						
1,2-Dibromoethane	mg/kg				<0.001	<0.001																						
Chlorobenzene	mg/kg	56			<0.001	<0.001																						
1,1,2,2-Tetrachloroethane	mg/kg	270			<0.001	<0.001																						
1,1,1,2-Tetrachloroethane	mg/kg	110			<0.001	<0.001																						
Trichloroethene	mg/kg	1.2			<0.001	<0.001																						
Tetrachloroethene	mg/kg	19			<0.003	<0.003																						
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)		<0.00114			<0.00118																					
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*)		<0.00114			<0.00118																					
Carbon Disulphide	mg/kg	11																										
Hexachlorobutadiene	mg/kg	31			<0.002	<0.002																						
2,4-Dinitrotoluene	mg/kg																											
2,6-Dinitrotoluene	mg/kg																											
2-Chloronaphthalene	mg/kg																											
Biphenyl	mg/kg																											
Bromobenzene	mg/kg				<0.001	<0.001																						
Bromoform	mg/kg				<0.001	<0.001																						
Chloroethane	mg/kg				<0.002	<0.002																						
Chloromethane	mg/kg				<0.003	<0.003																						
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		<0.00228			<0.00236																					
Dieldrin	mg/kg	170		<0.00569			<0.0059																					
Atrazine	mg/kg	9300		<0.00228			<0.00236																					
Dichlorvos (DDVP)	mg/kg	140		<0.00228			<0.00236																					
Alpha-Endosulfan	mg/kg	5600 (0.003)		<0.00114			<0.00118																					
Beta-Endosulfan	mg/kg	6300 (0.00007)		<0.0114			<0.0118																					
Alpha-Hexachlorocyclohexanes	mg/kg	170		<0.00228			<0.00236																					
Beta-Hexachlorocyclohexanes	mg/kg	65		<0.00228			<0.00236																					
Gamma-Hexachlorocyclohexanes	mg/kg	67		<0.00114			<0.00118																					
1,2-Dichlorobenzene	mg/kg	2000 (571*)																										

	Screening Criteria	S4UL Reference Page	Sample ID	3W85355A	3W85365A	3W85365A	3W85365A	3W85365A	3W85365A	3W8538HP	3W8538HP	3W8539DS	3W8539DS
	GAC Land Use	Commercial	Sample Depth	4.5	0.5	1.0	1.7	2.9	7.0	0.1	0.6	0.1	0.8
Analyte	SOM	1.0%	Sample GEOL GEOL	WTT	RTD	RTD	RTD	RTD	RTD	TOP	RTD	MGR	MGR
Metals	Units		Lab ID	#42422121212120020	#6694219450780006	#6694219450780009	#6694219450780013	#6694219450780017	#6694219450780030	#5877556612650001	#5877556612650002	#3678367037170001	#3678367037170008
Arsenic	mg/kg	640		18	7.9	2.8	11	2.4	5	5.4	3.1	8.4	6.5
Cadmium	mg/kg	190		<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.8	<0.2	<0.2	0.3
Chromium	mg/kg	8600		29.2	22.7	9.5	22.9	12.3	18	18.3	5.8	11.9	12.6
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
Selenium	mg/kg	12000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	mg/kg	68000		13.8	14.1	3.5	12.4	3.6	6.7	72.8	3.6	8.4	12.7
Lead	mg/kg	1100		8.1	32.1	6.9	52.1	3.7	8.1	21.5	6.6	28.9	30.4
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
Methylmercury	mg/kg	320											
Nickel	mg/kg	980			15.8	9.2	15.3	10.1	14.9	15.3		6.6	13
Zinc	mg/kg	730000		39	47.8	31.2	44.7	35.2	31.8	165.5	<16.0	63.9	58.4
Beryllium	mg/kg	12											
Boron, water soluble	mg/kg	240000		<0.5	0.5		<0.5	<0.5	<0.5		<0.5	0.5	<0.5
Vanadium	mg/kg	9000											
Antimony	mg/kg												
Barium	mg/kg												
Molybdenum	mg/kg					<0.5							
Manganese	mg/kg					129.1							
Inorganics													
Elemental Sulphur	mg/kg												
Sulphate, Total	mg/kg			127	426	149	420	610	500	448	54	394	291
Sulphide, Easily liberated	mg/kg				<0.6	<0.5	<0.6	<0.7	<0.6	<0.6		<0.6	<0.5
Chloride	mg/kg				4	3	<2	19	<2				
Cyanide, Free	mg/kg				<0.6		<0.6	<0.7	<0.6			<0.6	<0.5
Cyanide, Total	mg/kg				<0.6	<0.5	<0.6	<0.7	0.6			<0.6	<0.5
Cyanide, Complex	mg/kg												
Thiocyanate	mg/kg				<2.4	<2.2	<2.4	<2.6	<2.4			<2.5	<2.2
Ammonia	mg/kg												
% Stones Greater than 10mm	%			<0.1	2	6	2	<0.1	3.5	14.8	7.6	4.7	3
Asbestos	Identified				NAIIS	NAIIS	NAIIS	NAIIS	NAIIS	NAIIS		NAIIS	NAIIS
pH	pH			7.3	7.9	7.9	8.1	7.7	8	6.1	6.8	8.2	8.5
Soil Organic Matter	%			0.71	1.16	0.19	0.97	0.45	0.43	2.69	0.26	3.05	5.2
Phenols													
Phenol	mg/kg	440			<0.11	<0.03	<0.11	<0.12	<0.12	<0.11		<0.12	<0.10
Chlorophenols	mg/kg	3500				<0.04(4-Chlorophenol), <0.03(2,4-Dichlorophenol), <0.02(2,4,6-Trichlorophenol), <0.03(2-Chlorophenol), <0.02(2,4,5-Trichlorophenol)							
Pentachlorophenol	mg/kg	400				<0.03							
Catechol	mg/kg												
Resorcinol	mg/kg												
Cresols	mg/kg				<0.11		<0.11	0.12	0.21	<0.11		0.22	0.21
Xylenols & Ethylphenols	mg/kg				<0.11		<0.11	<0.12	<0.12	<0.11		<0.12	<0.10
Naphthols	mg/kg												
Trimethylphenol	mg/kg				<0.11		<0.11	<0.12	<0.12	<0.11		<0.12	<0.10
2,4-Dimethylphenol	mg/kg					<0.02							
Total Phenols	mg/kg				<0.44	<0.50	<0.46	0.46	0.56	<0.44		0.58	0.52
BTEX													
Benzene	mg/kg	27			<0.012	<0.001	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
Toluene	mg/kg	56000 (869)			<0.012	<0.005	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
Ethylbenzene	mg/kg	5700 (518)			<0.012	<0.002	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
p-xylene	mg/kg	6600 (478*)			<0.012	<0.002	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
m-xylene	mg/kg	6200 (625)											
p-xylene	mg/kg	5900 (576*)											
m,p-xylene		#N/A			<0.024	<0.004	<0.024	<0.026	<0.024	<0.023		<0.025	<0.022
Total Xylenes (calculated for HWO)	mg/kg	#N/A		0	<0.036	<0.006	<0.036	<0.039	<0.036	<0.035	0	<0.037	<0.033
Total BTEX		#N/A			<0.072	<0.065	<0.071	<0.079	<0.071	<0.070		<0.074	<0.065
MTBE		#N/A			<0.024	<0.001	<0.024	<0.026	<0.024	<0.023		<0.025	<0.022
PAH by GCMS													
Naphthalene	mg/kg	190 (76.4*)			<0.10	<0.005	<0.09	<0.11	<0.09	<0.09		<0.10	<8.63
Acenaphthylene	mg/kg	83000 (86.1*)			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		<0.10	<8.63
Acenaphthene	mg/kg	84000 (57*)			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		<0.10	<8.63
Fluorene	mg/kg	63000 (30.9*)			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		<0.10	<8.63
Phenanthrene	mg/kg	22000			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.52	<8.63
Anthracene	mg/kg	520000			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.18	<8.63
Fluoranthene	mg/kg	23000			0.11	<0.09	<0.09	<0.11	<0.09	<0.09		1.95	<8.63
Pyrene	mg/kg	54000			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		1.63	<8.63
Benzo(a)anthracene	mg/kg	170			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		1.05	<8.63
Chrysene	mg/kg	350			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.94	<8.63
Benzo(b)fluoranthene	mg/kg	44			0.1	<0.09	<0.09	<0.11	<0.09	<0.09		1.56	<8.63
Benzo(k)fluoranthene	mg/kg	1200			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.63	<8.63
Benzo(a)pyrene	mg/kg	35			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		1.18	<8.63
Indeno(1,2,3-cd)pyrene	mg/kg	500			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.59	<8.63
Dibenzo(a,h)anthracene	mg/kg	3.5			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.2	<8.63
Benzo(a,h)perylene	mg/kg	3900			<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.66	<8.63
Coronene	mg/kg				<0.10	<0.09	<0.09	<0.11	<0.09	<0.09		0.16	<8.63
Coal Tar	mg/kg	15											
Polycyclic aromatic hydrocarbons, Total 17	mg/kg				1.65	<1.47	<1.61	<1.79	<1.61	<1.59		11.6	<147
Benzo(j)fluoranthene	mg/kg												
Sum of detected PCB 7 Congeners	mg/kg				<0.042	<0.038	<0.042	<0.046	<0.042	<0.041		<0.043	<0.151
Dioxins and similar PCBs (equiv)	mg/kg												
Petroleum Hydrocarbon (1% SOM)													
Aliphatics >C5-C6	mg/kg	3200 (304*)			<0.240	<0.216	<0.237	<0.264	<0.237	<0.234		<0.247	<0.216
Aliphatics >C6-C8	mg/kg	7800 (144*)			<0.240	<0.216	<0.237	<0.264	<0.237	<0.234		<0.247	<0.216
Aliphatics >C8-C10	mg/kg	2000 (78*)			<0.240	<0.216	<0.237	<0.264	<0.237	<0.234		<0.247	<0.216
Aliphatics >C10-C12	mg/kg	9700 (48*)			<4.80	<4.31	<4.74	<5.27	<4.74	<4.69		<4.94	<4.31
Aliphatics >C12-C16	mg/kg	59000 (24*)			<4.80	<4.31	<4.74	<5.27	<4.74	<4.69		<4.94	6.3
Aliphatics >C16-C21	mg/kg				<4.80	<4.31	<4.74	<5.27	<4.74	<4.69		<4.94	9.45
Aliphatic EC16 - 35	mg/kg	1600000			<12.0	<10.8	<11.8	<13.2	<11.8	<11.7		<12.4	103
Aliphatics >C21-C25	mg/kg				<7.20	17.5	<7.11	21.7	21.1	<7.03		<7.42	106
Aliphatics >C35-C44	mg/kg	1600000			<0.012	<0.011	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
Aromatics >EC5-EC7	mg/kg	26000 (1220*)			<0.012	<0.011	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
Aromatics >EC7-EC8	mg/kg	56000 (869)			<0.012	<0.011	<0.012	<0.013	<0.012	<0.012		<0.012	<0.011
Aromatics >EC8-EC10	mg/kg	3500 (613)			<0.048	<0.044	<0.048	<0.053	<0.048	<0.047		<0.049	<0.044
Aromatics >EC10-EC12	mg/kg	16000 (364*)			<4.80	<4.31	<4.74	<5.27	5.24	<4.69		<4.94	<4.31
Aromatics >EC12-EC16	mg/kg	36000 (169*)			<4.80	7.83	<4.74	7.39	5.92	<4.69		<4.94	8.44
Aromatics >EC16-EC21	mg/kg	28000			<4.80	7.97	<4.74	9.46	5.3	9.98		13.5	25.7

	Screening Criteria	S4UL Reference Page	Sample ID	3W85355A	3W85365A	3W85365A	3W85365A	3W85365A	3W85365A	3W8538HP	3W8538HP	3W8539DS	3W8539DS
	GAC Land Use	Commercial	Sample Depth	4.5	0.5	1.0	1.7	2.9	7.0	0.1	0.6	0.1	0.8
Analyte	SOM	1.0%	Sample GEOL GEOL	WTT	RTD	RTD	RTD	RTD		TOP	RTD	MGR	MGR
Metals	Units		Lab ID	#42422121212120020	#6694219450780006	#6694219450780009	#6694219450780013	#6694219450780017	#6694219450780030	#5877556612650001	#5877556612650002	#3678367037170001	#3678367037170008
Aromatics >EC21-EC35	mg/kg	28000			<12.0	22.6	<11.8	25.5	19	<11.7		71.2	627
Aromatics >EC35-EC44	mg/kg	28000			<7.20	11.7	<7.11	8.92	<7.11	10.2		11.5	322
Alil&Aro EC44-70	mg/kg	28000											
Petrol Range Organics^	mg/kg				<0.240	<0.216	<0.237	<0.264	<0.237	<0.234		<0.247	<0.216
Diesel Range Organics^	mg/kg												
Sum of C5-C44 Alil/Aro (CWG)	mg/kg	#N/A		0.00	0.00	67.60	0.00	72.97	56.56	20.18	0.00	96.20	1207.89
TPH >C10-C40	mg/kg			25.5	55.2	36.2	44.4	<26.4	34	33.1	51.3	144	1350
1,2,4-Trimethylbenzene	mg/kg					<0.001							
Isopropylbenzene	mg/kg					<0.001							
Propylbenzene	mg/kg					<0.001							
Styrene	mg/kg					<0.001							
TPH MAX Value (for HWO)				25.5	55.2	67.6	44.4	72.97	56.56	33.1	51.3	144	1350
Volatile Organic Compounds													
Vinyl Chloride	mg/kg	0.059				<0.001							
1,1-Dichloroethene	mg/kg					<0.001							
Dichloromethane	mg/kg												
trans-1,2-Dichloroethene	mg/kg					<0.001							
1,1-Dichloroethane	mg/kg					<0.001							
2,2-Dichloropropane	mg/kg					<0.002							
cis-1,2-Dichloroethene	mg/kg					<0.005							
Bromochloromethane	mg/kg					<0.001							
Chloroform	mg/kg	99				<0.001							
1,1,1-Trichloroethane	mg/kg	660				<0.001							
Carbontetrachloride	mg/kg	2.9				<0.001							
1,1-Dichloropropene	mg/kg					<0.001							
1,2-Dichloroethane	mg/kg	0.67				<0.001							
1,2-Dichloropropane	mg/kg					<0.001							
Dibromomethane	mg/kg					<0.001							
Bromodichloromethane	mg/kg					<0.001							
trans-1,3-Dichloropropene	mg/kg					<0.001							
cis-1,3-Dichloropropene	mg/kg					<0.001							
1,1,2-Trichloroethane	mg/kg					<0.001							
1,3-Dichloropropane	mg/kg					<0.001							
Dibromochloromethane	mg/kg					<0.001							
1,2-Dibromoethane	mg/kg					<0.001							
Chlorobenzene	mg/kg	56				<0.001							
1,1,2,2-Tetrachloroethane	mg/kg	270				<0.001							
1,1,1,2-Tetrachloroethane	mg/kg	110				<0.001							
Trichloroethene	mg/kg	1.2				<0.001							
Tetrachloroethene	mg/kg	19				<0.003							
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)				<0.00108		<0.00132	<0.00118				
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*)				<0.00108		<0.00132	<0.00118				
Carbon Disulphide	mg/kg	11											
Hexachlorobutadiene	mg/kg	31				<0.002							
2,4-Dinitrotoluene	mg/kg												
2,6-Dinitrotoluene	mg/kg												
2-Chloronaphthalene	mg/kg												
Biphenyl	mg/kg												
Bromobenzene	mg/kg					<0.001							
Bromoform	mg/kg					<0.001							
Chloroethane	mg/kg					<0.002							
Chloromethane	mg/kg					<0.003							
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				<0.00216		<0.00264	<0.00237				
Dieldrin	mg/kg	170				<0.00539		<0.00659	<0.00592				
Atrazine	mg/kg	9300											
Dichlorvos (DDVP)	mg/kg	140				<0.00216		<0.00264	<0.00237				
Alpha-Endosulfan	mg/kg	5600 (0.003)				<0.00108		<0.00132	<0.00118				
Beta-Endosulfan	mg/kg	6300 (0.00007)				<0.0108		<0.0132	<0.0118				
Alpha-Hexachlorocyclohexanes	mg/kg	170				<0.00216		<0.00264	<0.00237				
Beta-Hexachlorocyclohexanes	mg/kg	65				<0.00216		<0.00264	<0.00237				
Gamma-Hexachlorocyclohexanes	mg/kg	67				<0.00108		<0.00132	<0.00118				
1,2-Dichlorobenzene	mg/kg	2000 (571*)				<0.001							
1,3-Dichlorobenzene	mg/kg	30				<0.001							
1,4-Dichlorobenzene	mg/kg	4400 (224)				<0.001							
1,2,3-Trichlorobenzene	mg/kg	102				<0.00108		<0.00132	<0.00118				
1,2,4-Trichlorobenzene	mg/kg	220				<0.003							
1,3,5-Trichlorobenzene	mg/kg	23				<0.00108		<0.00132	<0.00118				
Hexachlorobenzene	mg/kg	110 (0.2)				<0.00216		<0.00264	<0.00237				
Hexachloroethane	mg/kg												
Total CFC (for Haz)	mg/kg												
Moisture.													
Moisture Content Ratio (% of as received sample)	%			16.7	16.7	7.3	15.6	24.1	15.6	14.7	8.3	19.1	7.3

Tentatively Identified Compounds in Phase 3B/3C Soil Samples

Soil TICs in mg/kg			
	3G4105SA	3G7530IT	3G7530IT
	2.8 m bgl	0.5 m bgl	1 m bgl
Hexane, 2,2-dimethyl-			0.072
Pentane, 2,2,4,4-tetramethyl-	0.095	0.086	
Pyrazolo[3",4":3',4']cyclobuta[1',2':3,4]cyclobuta[1,2-c]pyrazole, 1,3a,3b,3c,6,6a,6b,6c-octahydro-1,3,4,6-tetraphenyl-		0.018	

				Assessment Criteria	LOC ID	3G4022D5	3G4037D5	3G4038D5	3W8526HP	3W85295A	3W85295A	3W85305A	3W85355A	3W85355A	3W8560HP
					DEPTH	3.50	4.60	3.80	0.95	1.80	5.50	6.00	2.00	4.50	1.00
					GEOL	RTD	GA	GA	RTD	WTT	WTT	WTT	Head	WTT	LC
Analyte	Units	LOD	Human Consumption	LAB ID	DATE	38/C20240322 112133	38/C20240322 114716	38/C20240410 112318	#857209375526 0005			G4011-24 Phase 38/C202405301 24810	#424222121212 0013	#424222121212 0020	#047505470014 0005
						29/03/2024	29/03/2024	13/04/2024	30/05/2024	28/05/2024	28/05/2024	06/03/2024	27/04/2024	27/04/2024	14/05/2024
Alkalinity as CaCO3	µg/l	1	10			1	2	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	1
Arsenic	µg/l	10	1000			160	80	<10.0	<10.0	10	<10.0	<10.0	<10.0	<10.0	<10.0
Boron	µg/l	0.02	5			0.04	0.07	0.05	0.03	0.04	2.12	0.03	<0.02	<0.02	0.04
Cadmium	µg/l	1	50			<1.0	1	3	<1.0	<1.0	<1.0	<1.0	<1.0	1	2
Chromium (Total)	µg/l	3	-			<3.0	<3.0	3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium Trivalent	µg/l	3	-			<3.0	21	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	10
Chromium Hexavalent	µg/l	1	2000			5	3	1	<1.0	5	<1.0	<1.0	<1.0	<1.0	<1.0
Copper	µg/l	1	200			<1.0	2	<1.0	<1.0	1	<1.0	<1.0	<1.0	<1.0	1
Iron	µg/l	1	10			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Lead	µg/l	0.03	1												
Mercury	µg/l	1	50			300	300	200	200	200	200	500	300	100	<100.0
Manganese	µg/l	1	10			2	1	<1.0	1	<1.0	279	5	<1.0	<1.0	<1.0
Fluoride	µg/l	1	10			3	<1.0	<1.0	<1.0	<1.0	173	<1.0	<1.0	<1.0	<1.0
Nickel	µg/l	1	5000			6	3	2	2	<2.0	173	<2.0	<2.0	2	3
Selenium	µg/l	2	-			5710	3640	1580	110	<20.0	490	<20.0	<20.0	<20.0	<20.0
Zinc	µg/l	20	500			4700									
Total Ammonia N	µg/l	1000	250000			16000	11000	6000	8000	2000	4000	7000	3000	<1000.0	2000
Ammoniacal Nitrogen as NH3	µg/l	20	500												
Ammoniacal Nitrogen as N	µg/l	20	500												
Chloride	µg/l	1000	250000												
Chlorine	µg/l	20	50												
Cyanide	µg/l	900	50000												
Nitrate as NO3	µg/l	40	500			10700	<80.0	<80.0	<80.0	2600	2100	<800.0	2400	1700	3300
Nitrite as NO2	µg/l	0.04	0.5				<0.04								
Phenol	µg/l	0.04	-												
Pentachlorophenol	µg/l	0.04	-												
PCBs	µg/l	3000	250000												
Sodium	µg/l	1	-			53000	22000	13000	47000	54000	262000	27000	11000	6000	7000
Sulphate	µg/l	1	-			8.1	7.8	8.1	7.7	7.6	4.8	7.8	7.3	7.3	7.8
pH	pH Units	1	-												
Dichloromethane	µg/l	1	10												
1,2 Dichloroethane	µg/l	1	10												
Trichloroethene (PCE)	µg/l	1	10												
1,1,1 Trichloroethane	µg/l	1	10												
1,1,2 Trichloroethane	µg/l	1	10												
Trichloromethane (Chloroform)	µg/l	0.01	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	10												
Tetrachloromethane	µg/l	10	10												
1,1,1,2 Tetrachloroethane	µg/l	10	10												
Vinyl Chloride (Chloroethene)	µg/l	100	10												
>C5 to C6 Aliphatic	µg/l	100	10												
>C6 to C8 Aliphatic	µg/l	100	10												
>C8 to C10 Aliphatic	µg/l	10	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	-												
TPH Al/Aro	µg/l	410	10			<100.0 (GRO >C5-10), 20.0 (Aliphatics >C8-40), 20.0 (Aromatics >C8-40)	110.0 (TPH >C5-40)	<100.0 (GRO >C5-10), 120.0 (TPH >C6-40), 10.0 (Aliphatics >C8-40), 20.0 (Aromatics >C8-40)	<110.0 (TPH >C6-40)	<110.0 (TPH >C5-40)	110.0 (TPH >C6-40)	<110.0 (TPH >C6-40)	<110.0 (TPH >C6-40)	120.0 (TPH >C6-40)	<440.0 (TPH >C6-40)
Benzene	µg/l	1	1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	0.5	300			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/l	1	700			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylene	µg/l	1	500			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m- & p-Xylene	µg/l	1	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
O-Xylene	µg/l	1	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylene (m, p & o)	µg/l	2	-			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
MTBE	µg/l	1	15			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
naphthalene	µg/l	0.01	-			0.05	0.41	0.39	0.06	0.08	0.37	0.51	0.02	0.01	<0.04
acenaphthylene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
acenaphthene	µg/l	0.01	-			0.03	0.12	0.23	0.06	0.04	0.19	0.01	<0.01	<0.01	<0.04
fluorene	µg/l	0.01	-			0.01	<0.10	0.06	0.03	<0.01	0.06	0.12	<0.01	<0.01	<0.04
phenanthrene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	0.02	0.07	<0.01	<0.01	<0.04
anthracene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
fluoranthene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
pyrene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a)anthracene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
chrysene	µg/l	0.01	-			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(b)fluoranthene	µg/l	0.01	0.1			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(k)fluoranthene	µg/l	0.01	0.1			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a)pyrene	µg/l	0.01	0.01			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a,h,i)perylene	µg/l	0.01	0.1			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
di benzo(a,h,i)anthracene	µg/l	0.01	-			<0.01	<0.10	<0.01	<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	0.1			<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	0.1												
Total PAH	µg/l	0.16	-			0.28	1.93	0.81	0.28	0.27	0.77	1	0.17	0.16	<0.64

			Assessment Criteria	LOC ID	3G402205	3G403705	3G403805	3W8526HP	3W85295A	3W85295A	3W85305A	3W85355A	3W85355A	3W8560HP
				DEPTH	3.50	4.60	3.80	0.95	1.80	5.50	6.00	2.00	4.50	1.00
				GEOL	RTD	GA	GA	RTD	WTT	WTT	WTT	Head	WTT	LC
Analyte	Units	LOD	Fresh Water	LAB ID	G4011-24 Phase 38/C20240322 112133	G4011-24 Phase 38/C20240322 114716	G4011-24 Phase 38/C20240410 112318	#857209375526 0005			G4011-24 Phase 38/C202405301 24810	#424222121212 0013	#424222121212 0020	#047505470014 0005
				DATE	29/03/2024	29/03/2024	13/04/2024	30/05/2024	28/05/2024	28/05/2024	06/03/2024	27/04/2024	27/04/2024	14/05/2024
Alkalinity as CaCO3	µg/l				1	2	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	1
Arsenic	µg/l	1	50		160	80	<10.0	<10.0	10	<10.0	<10.0	<10.0	<10.0	<10.0
Boron	µg/l	10	-		0.04	0.07	0.05	0.03	0.04	2.12	0.03	<0.02	<0.02	0.04
Cadmium	µg/l	0.02	0.08		<1.0	1	3	<1.0	<1.0	<1.0	<1.0	<1.0	1	2
Chromium (Total)	µg/l	1	-		<3.0	<3.0	3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium Trivalent	µg/l	3	4.7		<3.0	21	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	10
Chromium Hexavalent	µg/l	3	3.4		5	3	1	<1.0	5	<1.0	<1.0	<1.0	<1.0	<1.0
Copper	µg/l	1	1		<1.0	2	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	1
Iron	µg/l	1	1000		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Lead	µg/l	0.03	0.07											
Mercury	µg/l	0.03	0.07		300	300	200	200	200	200	500	300	100	<100.0
Manganese	µg/l	1	123		2	1	<1.0	1	<1.0	279	5	<1.0	<1.0	<1.0
Fluoride	µg/l	1	µN/A		3	<1.0	<1.0	<1.0	<1.0	12	<1.0	<1.0	<1.0	<1.0
Nickel	µg/l	1	4		6	3	2	2	<2.0	173	<2.0	<2.0	2	3
Selenium	µg/l	1	-											
Zinc	µg/l	2	10.9		5710	3640	1580	110	<20.0	490	<20.0	<20.0	<20.0	<20.0
Total Ammonia N	µg/l		200		4700									
Ammoniacal Nitrogen as NH3	µg/l	20	-		16000	11000	6000	8000	2000	4000	7000	3000	<1000.0	2000
Ammoniacal Nitrogen as N	µg/l	20	-											
Chloride	µg/l	1000	-											
Chlorine	µg/l		2											
Cyanide	µg/l	20	1											
Nitrate as NO3	µg/l	900	-		10700	<80.0	<80.0	<80.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Nitrite as NO2	µg/l	40	-		<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Phenol	µg/l		7.7		<0.04									
Pentachlorophenol	µg/l	0.04	0.4											
PCBs	µg/l		-											
Sodium	µg/l		-											
Sulphate	µg/l	3000	-		53000	22000	13000	47000	54000	262000	27000	11000	6000	7000
pH	pH Units	1	-		8.1	7.8	8.1	7.7	7.6	4.8	7.8	7.3	7.3	7.8
Dichloromethane	µg/l		-											
1,2 Dichloroethane	µg/l		10		<1									
Trichloroethene (PCE)	µg/l		10		<5									
1,1,1 Trichloroethane	µg/l		-		<1									
1,1,2 Trichloroethane	µg/l		-		<1									
Trichloromethane (Chloroform)	µg/l		2.5		<1									
1,2,3 Trichlorobenzene	µg/l	0.01	-		<0.01									
1,2,4 Trichlorobenzene	µg/l		-		<5									
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		0.4											
Tetrachloroethene	µg/l		10		<5									
Tetrachloromethane	µg/l		12		<1									
1,1,1,2 Tetrachloroethane	µg/l		140		<1									
Vinyl Chloride (Chloroethene)	µg/l		-		<1									
>C5 to C6 Aliphatic	µg/l	100	-		<100.0		<100.0							
>C6 to C8 Aliphatic	µg/l	100	-		<100.0		<100.0							
>C8 to C10 Aliphatic	µg/l	100	-		<100.0		<100.0							
>C10 to C12 Aliphatic	µg/l	10	-		<10.0		<10.0							
>C12 to C16 Aliphatic	µg/l	10	-		<10.0		<10.0							
>C16 to C21 Aliphatic	µg/l	10	-		<10.0		<10.0							
>C21 to C35 Aliphatic	µg/l	10	-		<10.0		<10.0							
>C35 to C44 Aliphatic	µg/l	10	-		<10.0		<10.0							
Total Aliphatic C5-35	µg/l	340	-											
>C5 to C7 Aromatic	µg/l	5	-		<5.0		<5.0							
>C7 to C8 Aromatic	µg/l	5	-		<5.0		<5.0							
>C8 to C10 Aromatic	µg/l	20	-		<20.0		<20.0							
>C10 to C12 Aromatic	µg/l	10	-		<10.0		<10.0							
>C12 to C16 Aromatic	µg/l	10	-		<10.0		<10.0							
>C16 to C21 Aromatic	µg/l	10	-		<10.0		<10.0							
>C21 to C35 Aromatic	µg/l	10	-		<10.0		<10.0							
>C35 to C44 Aromatic	µg/l	10	-		<10.0		<10.0							
Total Aromatic C5-C35	µg/l	70	-											
TPH Al/Aro	µg/l	410	-		<100.0 (GRO >C5-10), 20.0 (Aliphatics >C8-40), 20.0 (Aromatics >C8-40)	110.0 (TPH >C5-40)	<100.0 (GRO >C5-10), 120.0 (TPH >C6-40), 10.0 (Aliphatics >C8-40), 20.0 (Aromatics >C8-40)	<110.0 (TPH >C6-40)	<110.0 (TPH >C5-40)	110.0 (TPH >C6-40)	<110.0 (TPH >C6-40)	<110.0 (TPH >C6-40)	120.0 (TPH >C6-40)	<440.0 (TPH >C6-40)
Benzene	µg/l	1	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	0.5	-		<0.5	<0.5	<0.5	<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	<1	<1	<1	<1
Xylene	µg/l		30		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m- & p-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
O-Xylene	µg/l	1	-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylene (m, p & o)	µg/l	2	-		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
MTBE	µg/l	1	-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
naphthalene	µg/l	0.01	2		0.05	0.41	0.39	0.06	0.08	0.37	0.51	0.02	0.01	<0.04
acenaphthylene	µg/l	0.01	-		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
acenaphthene	µg/l	0.01	-		0.03	0.12	0.23	0.06	0.04	0.19	0.19	<0.01	<0.01	<0.04
fluorene	µg/l	0.01	-		0.01	<0.10	0.06	0.03	<0.01	0.06	0.12	<0.01	<0.01	<0.04
phenanthrene	µg/l	0.01	-		<0.01	<0.10	<0.01	<0.01	<0.01	0.02	0.07	<0.01	<0.01	<0.04
anthracene	µg/l	0.01	0.1		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
fluoranthene	µg/l	0.01	0.0063		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
pyrene	µg/l	0.01	-		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a)anthracene	µg/l	0.01	-		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
chrysene	µg/l	0.01	-		<0.01	<0.10	<0.01	<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	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(k)fluoranthene	µg/l	0.01	0.017		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a)pyrene	µg/l	0.01	0.00017		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
benzo(a,h,i)perylene	µg/l	0.01	0.0082		<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
di-benzo(a,h)anthracene	µg/l	0.01	-		<0.01	<0.10	<0.01	<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	<0.10	<0.01	<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	-		0.28	1.93	0.81	0.28	0.27	0.77	1	0.17	0.16	<0.64

Tentatively Identified Compounds in Phase 3B/3C Soil Leachate Samples

Leachate TICs in mg/l		
	3G4022DS	3W8536SA
	3.5 m bgl	1 m bgl
1H-Benzimidazole, 1-(2-phenylethenyl)-, (E)-		0.076
Butane, 2,2,3,3-tetramethyl-		0.079
Hexane, 2,2-dimethyl-	0.016	
N-Benzenesulfonyloxy-2,2-bis(trifluoromethyl)aziridine		0.019

				LOC ID	3G4022DS	3G4022DS	3G4022DS	3G4037DS	3G4037DS	3G4037DS	3G4037DS	3G4038DS	3G4038DS	3G4038DS	3G4102SA	3G4102SA	3G4102SA	3W8529SA	3W8529SA	3W8529SA	3W8530SA	3W8530SA	3W8534DS	3W8534DS	3W8535SA	3W8535SA	3W8536SA	3W8536SA	3W8536SA		
					1.40	2.30	3.04	5.05	5.10	5.22	1.01	1.33	2.00	10.87	10.90	12.00	3.00	6.00	6.50	5.00	7.00	2.83	2.85	1.17	7.00	10.00	3.81	5.50			
					DEPTH	RTD	RTD	EA	EA	EA	EA	EA	EA	RTD	RTD	RTD	WTT	WTT	WTT	WTT	WTT	RTD	RTD	Head	WTT	RTD	WHI	WHI			
Assessment Criteria				LAB ID	#794727485530000		3G4022DSW12303	#834205414090000		#4580789103430		#6224814837890	#6224814837890	#6224814837890	#6224814837890	#6224814837890	#6224814837890	#00401337072400	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300	#95176091089300			
				DATE	14/05/2024	01/05/2024	24/04/2024	30/04/2024	15/05/2024	31/05/2024	15/05/2024	31/05/2024	30/04/2024	15/05/2024	31/05/2024	30/04/2024	02/07/2024	19/06/2024	17/07/2024	02/07/2024	17/07/2024	14/05/2024	24/04/2024	28/05/2024	22/05/2024	01/05/2024	24/04/2024	29/05/2024			
Analyte	Units	LOD	Human Consumption																												
Alkalinity as CaCO3	µg/l		-																												
Arsenic	µg/l	1	10		1	<1.0	3	2	<1.0	<1.0	2	3	9	<1.0	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2	4	<1.0	<1.0	<1.0	<1.0	5			
Boron	µg/l	10	1000		10	10	60	50	30	<10.0	80	90	80	120	80	210	130	350	120	120	60	140	170	<10.0	30	130	160	40			
Cadmium	µg/l	0.02	5		0.05	<0.02	<0.02	0.13	0.04	0.05	<0.02	0.13	<0.02	0.03	0.38	0.05	<0.02	<0.02	<0.02	<0.02	0.03	0.04	0.02	0.03	0.05	<0.02	<0.02	<0.02			
Chromium (Total)	µg/l	1	50		2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	22	<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			
Chromium Trivalent	µg/l	3	-		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	13	<3.0	<3.0	22	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			
Chromium Hexavalent	µg/l	3	-		6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			
Copper	µg/l	1	2000		4	4	<1.0	1	3	2	<1.0	11	<1.0	<1.0	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Iron	µg/l		200																												
Lead	µg/l	1	10		1	<1.0	<1.0	3	<1.0	<1.0	<1.0	16	<1.0	<1.0	32	<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			
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	<0.03	<0.03	<0.03	<0.03	<0.03	<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	#N/A		<100.0	<100.0	200	400	<100.0	<100.0	<100.0	<100.0	200	100	200	200	200	100	200	100	<100.0	700	100	<100.0	300	300	300	200			
Nickel	µg/l	1	20		2	3	4	9	12	7	2	8	2	2	19	2	10	5	15	36	27	8	8	4	4	2	1	1			
Selenium	µg/l	1	10		<1.0	<1.0	<1.0	3	<1.0	1	<1.0	2	<1.0	2	3	3	<1.0	<1.0	<1.0	<1.0	<1.0	8	2	<1.0	<1.0	<1.0	<1.0	2			
Zinc	µg/l	2	5000		25	13	<2.0	18	30	7	11	44	2	13	238	17	6	43	11	72	23	9	9	18	7	5	4	25			
Total Ammonia N	µg/l		-																												
Ammoniacal Nitrogen as NH3	µg/l	20	500		50	90	<20.0							20	20	70	<20.0	<20.0	20	<20.0	20	120	160	<20.0	<20.0	20	<20.0	<20.0			
Ammoniacal Nitrogen as N	µg/l	20	500		40	70	<10.0																		20	<10.0	<10.0				
Chloride	µg/l	1000	250000		20000	29000	50000	59000	81000	80000	22000	22000	21000	75000	49000	105000	37000	76000	26000	63000	20000	31000	65000	18000	30000	48000	70000	29000			
Chlorine	µg/l		-																												
Cyanide	µg/l	20	50																												
Nitrate as NO3	µg/l	900	50000		3200	1300	<900.0	900	<900.0	<900.0	<900.0	<900.0	<900.0	30300	29500	24400	<900.0	<900.0	<900.0	<900.0	<900.0	3500	<900.0	<900.0	<900.0	<900.0	<900.0	<900.0			
Nitrite as NO2	µg/l	40	500		<40.0	70	<40.0							70	140	130	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	50	<40.0	<40.0	<40.0	<40.0			
Phenol	µg/l		0.5																												
Pentachlorophenol	µg/l	0.04	-		<0.04	<0.04	<0.04																								
PCBs	µg/l		-																												
Sodium	µg/l		200000																												
Sulphate	µg/l	3000	250000		22000	35000	18000	117000	110000	96000	33000	27000	17000	45000	30000	78000	62000	71000	72000	83000	57000	114000	110000	37000	81000	57000	69000	43000			
pH	pH Units	1	-		6.8	6.7	6.6	7.9	7.2	7.7	7.4	7.3	7.3	7.4	7.5	7.6	6.8	7.4	6.8	7.3	6.6	7.4	7.3	7.2	7.4	7	7.1	6.8			
Dichloromethane	µg/l		-																												
1,2 Dichloroethane	µg/l		3				<1	<1	<1	<1	<1	<1	<1													<1	<1	<1			
Trichloroethene (PCE)	µg/l		10				<5	<5	<5	<5	<5	<5	<5													<5	<5	<5			
1,1,1 Trichloroethane	µg/l		-				<1	<1	<1	<1	<1	<1	<1													<1	<1	<1			
1,1,2 Trichloroethane	µg/l		-				<1	<1	<1	<1	<1	<1	<1													<1	<1	<1			
Trichloromethane (Chloroform)	µg/l		100				<5	<5	<5	<5	<5	<5	<5													<5	<5	<5			
1,2,3 Trichlorobenzene	µg/l	0.01	-		<0.05	<0.01	<0.01	<5	<5	<5	<5	<5	<5													<5	<5	<5			
1,2,4 Trichlorobenzene	µg/l		-				<5	<5	<5	<5	<5	<5	<5													<5	<5	<5			
Trichlorobenzene (1,2,3 & 1,2,4)	µg/l		-																												
Tetrachloroethene	µg/l		10				<5	<5	<5	<5	<5	<5	<5													<5	<5	<5			
Tetrachloromethane	µg/l		3				<1	<1	<1	<1	<1	<1	<1													<1	<1	<1			
1,1,1,2 Tetrachloroethane	µg/l		-				<1	<1	<1	<1	<1	<1	<1													<1	<1	<1			
Vinyl Chloride (Chloroethene)	µg/l		0.5				<1	<1	<1	<1	<1	<1	<1													<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	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<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	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<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	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0			
>C10 to C12 Aliphatic	µg/l	10	10		<40.0	<100.0	<100.0	<200.0	<200.0	<10.0	<100.0	<10.0	<100.0	<10.0	<400.0	<40.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<10.0			
>C12 to C16 Aliphatic	µg/l	10	10		<40.0	<100.0	<100.0	<200.0	<200.0	<10.0	<100.0	<10.0	<100.0	<10.0	<400.0	<40.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<100.0	<10.0			
>C16 to C21 Aliphatic	µg/l	10	10		<40.0	<100.0	<100.0	<200.0	<200.0	<10.0	<100.0	<10.0	<100.0	<10.0	<400.0	<40.0	<100.0	<100.0	<100.0	<100.0	&										

				LOC ID	3W8539D5	3W8539D5	3W8539D5
				DEPTH	1.40	1.46	1.55
				GEOLOG	RTD	RTD	RTD
		Assessment Criteria		LAB ID	3W8539D5W1233	#6294019616330	
				DATE	156	016	
Analyte	Units	LOD	Human Consumption		24/04/2024	14/05/2024	01/05/2024
Alkalinity as CaCO3	µg/l		-				
Arsenic	µg/l	1	10		1	<1.0	<1.0
Boron	µg/l	10	1000		80	90	90
Cadmium	µg/l	0.02	5		0.04	<0.02	<0.02
Chromium (Total)	µg/l	1	50		1	<1.0	<1.0
Chromium Trivalent	µg/l	3	-		<3.0	<3.0	<3.0
Chromium Hexavalant	µg/l	3	-		<3.0	<3.0	<3.0
Copper	µg/l	1	2000		1	<1.0	<1.0
Iron	µg/l	1	200				
Lead	µg/l	1	10		1	<1.0	<1.0
Mercury	µg/l	0.03	1		<0.03	<0.03	<0.03
Manganese	µg/l		50				
Fluoride	µg/l	1	#N/A		300	200	300
Nickel	µg/l	1	20		4	5	6
Selenium	µg/l	1	10		<1.0	2	<1.0
Zinc	µg/l	2	5000		26	5	17
Total Ammonia N	µg/l		-				
Ammoniacal Nitrogen as NH3	µg/l	20	500		6310	5460	5100
Ammoniacal Nitrogen as N	µg/l	20	500				
Chloride	µg/l	1000	250000		14000	17000	17000
Chlorine	µg/l						
Cyanide	µg/l	20	50		<20.0	<20.0	<20.0
Nitrate as NO3	µg/l	900	50000		<900.0	10300	<900.0
Nitrite as NO2	µg/l	40	500		<40.0	190	<40.0
Phenol	µg/l		0.5				
Pentachlorophenol	µg/l	0.04	-				
PCBs	µg/l		-				
Sodium	µg/l		200000				
Sulphate	µg/l	3000	250000		8000	24000	22000
pH	pH Units	1	-		7	7.1	7
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		<10.0	<10.0	<100.0
>C12 to C16 Aliphatic	µg/l	10	10		<10.0	<10.0	<100.0
>C16 to C21 Aliphatic	µg/l	10	10		<10.0	<10.0	<100.0
>C21 to C35 Aliphatic	µg/l	10	10		<10.0	<10.0	330
>C35 to C44 Aliphatic	µg/l	10	10		<10.0	<10.0	<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		<10.0	<10.0	<100.0
>C12 to C16 Aromatic	µg/l	10	10		<10.0	<10.0	<100.0
>C16 to C21 Aromatic	µg/l	10	10		<10.0	<10.0	<100.0
>C21 to C35 Aromatic	µg/l	10	10		10	<10.0	110
>C35 to C44 Aromatic	µg/l	10	10		<10.0	<10.0	<100.0
Total Aromatic C5-C35	µg/l	70	-				
TPH Ali/Aro	µg/l	410	10		<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 20.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 10.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , 450.0 (Aliphatics >C8-40) , 180.0 (Aromatics >C8-40)
Benzene	µg/l	1	1		<5	<5	<5
Ethylbenzene	µg/l	0.5	300		<5	<5	<5
Toluene	µg/l	1	700		<5	<5	<5
Xylene	µg/l		500				
M- & P-Xylene	µg/l	1	-		<10	<10	<10
O-Xylene	µg/l	1	-		<5	<5	<5
Total Xylene (M, P & O)	µg/l	2	-		<15	<15	<15
MTBE	µg/l	1	15		<10	<10	<10
naphthalene	µg/l	0.01	-		0.05	0	0.24
acenaphthylene	µg/l	0.01	-		<0.01	0	<0.10
acenaphthene	µg/l	0.01	-		<0.01	0	0.12
fluorene	µg/l	0.01	-		<0.01	0	0.2
phenanthrene	µg/l	0.01	-		<0.01	0	0.47
anthracene	µg/l	0.01	-		<0.01	0	0.11
fluoranthene	µg/l	0.01	-		<0.01	0	0.42
pyrene	µg/l	0.01	-		0.01	0.0208	0.46
benzo(a)anthracene	µg/l	0.01	-		<0.01	0	0.21
chrysene	µg/l	0.01	-		<0.01	0	0.31
benzo(b)fluoranthene	µg/l	0.01	0.1		<0.01	0	0.43
benzo(k)fluoranthene	µg/l	0.01	0.1		<0.01	0	0.23
benzo(a)pyrene	µg/l	0.01	0.01		<0.01	0	0.5
benzo(g,h,i)perylene	µg/l	0.01	0.1		<0.01	0	<0.10
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01	0	<0.10
indeno(1,2,3-c,d)pyrene	µg/l	0.01	0.1		<0.01	0	0.24
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	0.1				
Total PAH	µg/l	0.16	-		0.2	0.0208	4.22
PFAS			#N/A				
Perfluorooctanesulfonic acid	µg/l	0.008	#N/A				
Perfluorooctanoic acid	µg/l	0.008	#N/A				

					LOC ID	3G4022DS	3G4022DS	3G4022DS	3G4037DS	3G4037DS	3G4037DS	3G4037DS	3G4038DS	3G4038DS	3G4038DS	3G4102SA	3G4102SA	3G4102SA	3W8529SA	3W8529SA	3W8529SA	3W8530SA	3W8530SA	3W8534DS	3W8534DS	3W8535SA	3W8535SA	3W8536SA	3W8536SA
					DEPTH	1.40	2.30	3.04	5.05	5.10	5.22	1.01	1.33	2.00	10.87	10.90	12.00	3.00	6.00	6.50	5.00	7.00	2.83	2.85	1.17	7.00	10.00	3.81	5.50
					GEOL	RTD	RTD	RTD	EA	EA	EA	EA	EA	EA	RTD	RTD	RTD	WTT	WTT	WTT	WTT	WTT	RTD	RTD	Head	WTT	RTD	WHI	WHI
			Assessment Criteria		LAB ID	#7947274855300018		3G4022DSW1230332	#8342054140900020	#4580789103430032		#6224814837890048	#6224814837890049		#6224814837890048	#6224814837890049		#0040133707240053	#9517609108930056	#9517609108930056	#9517609108930056	#9517609108930056	#9357315031500056		3W8534DSW1231610	#39357315031500056	3W8536SAW1234340	#6694219450780072	
Analyte	Units	LOD	Fresh Water	DATE	14/05/2024	01/05/2024	24/04/2024	30/04/2024	15/05/2024	31/05/2024	15/05/2024	31/05/2024	30/04/2024	15/05/2024	31/05/2024	30/04/2024	02/07/2024	19/06/2024	17/07/2024	02/07/2024	17/07/2024	14/05/2024	24/04/2024	28/05/2024	22/05/2024	01/05/2024	24/04/2024	29/05/2024	
Alkalinity as CaCO3	µg/l		-																										
Arsenic	µg/l	1	50																										
Boron	µg/l	10																											
Cadmium	µg/l	0.02	0.08																										
Chromium (Total)	µg/l	1	-																										
Chromium Trivalent	µg/l	3	4.7																										
Chromium Hexavalant	µg/l	3	3.4																										
Copper	µg/l	1	1																										
Iron	µg/l		1000																										
Lead	µg/l	1	1.2																										
Mercury	µg/l	0.03	0.07																										
Manganese	µg/l		123																										
Fluoride	µg/l	1	#N/A																										
Nickel	µg/l	1	4																										
Selenium	µg/l	1																											
Zinc	µg/l	2	10.9																										
Total Ammonia N	µg/l		200																										
Ammoniacal Nitrogen as NH3	µg/l	20	-																										
Ammoniacal Nitrogen as N	µg/l	20	-																										
Chloride	µg/l	1000	-																										
Chlorine	µg/l		2																										
Cyanide	µg/l	20	1																										
Nitrate as NO3	µg/l	900	-																										
Nitrite as NO2	µg/l	40	-																										
Phenol	µg/l		7.7																										
Pentachlorophenol	µg/l	0.04	0.4																										
PCBs	µg/l		-																										
Sodium	µg/l		-																										
Sulphate	µg/l	3000	-																										
pH	pH Units	1	-																										
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	-																										

				LOC ID	3W8539DS	3W8539DS	3W8539DS
				DEPTH	1.40	1.46	1.55
				GEOLOG	RTD	RTD	RTD
			Assessment Criteria	LAB ID	3W8539DSW1233	#6294019616330	
				LAB ID	156	016	
Analyte	Units	LOD	Fresh Water	DATE	24/04/2024	14/05/2024	01/05/2024
Alkalinity as CaCO3	µg/l		-				
Arsenic	µg/l	1	50		1	<1.0	<1.0
Boron	µg/l	10	-		80	90	90
Cadmium	µg/l	0.02	0.08		0.04	<0.02	<0.02
Chromium (Total)	µg/l	1	-		1	<1.0	<1.0
Chromium Trivalent	µg/l	3	4.7		<3.0	<3.0	<3.0
Chromium Hexavalant	µg/l	3	3.4		<3.0	<3.0	<3.0
Copper	µg/l	1	1		1	<1.0	<1.0
Iron	µg/l		1000				
Lead	µg/l	1	1.2		1	<1.0	<1.0
Mercury	µg/l	0.03	0.07		<0.03	<0.03	<0.03
Manganese	µg/l		123				
Fluoride	µg/l	1	#N/A		300	200	300
Nickel	µg/l	1	4		4	5	6
Selenium	µg/l	1	-		<1.0	2	<1.0
Zinc	µg/l	2	10.9		26	5	17
Total Ammonia N	µg/l		200				
Ammoniacal Nitrogen as NH3	µg/l	20	-		6310	5460	5100
Ammoniacal Nitrogen as N	µg/l	20	-				
Chloride	µg/l	1000	-		14000	17000	17000
Chlorine	µg/l		2				
Cyanide	µg/l	20	1		<20.0	<20.0	<20.0
Nitrate as NO3	µg/l	900	-		<900.0	10300	<900.0
Nitrite as NO2	µg/l	40	-		<40.0	190	<40.0
Phenol	µg/l		7.7				
Pentachlorophenol	µg/l	0.04	0.4				
PCBs	µg/l		-				
Sodium	µg/l		-				
Sulphate	µg/l	3000	-		8000	24000	22000
pH	pH Units	1	-		7	7.1	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	-		<100.0	<100.0	<100.0
>C6 to C8 Aliphatic	µg/l	100	-		<100.0	<100.0	<100.0
>C8 to C10 Aliphatic	µg/l	100	-		<100.0	<100.0	<100.0
>C10 to C12 Aliphatic	µg/l	10	-		<10.0	<10.0	<100.0
>C12 to C16 Aliphatic	µg/l	10	-		<10.0	<10.0	<100.0
>C16 to C21 Aliphatic	µg/l	10	-		<10.0	<10.0	<100.0
>C21 to C35 Aliphatic	µg/l	10	-		<10.0	<10.0	330
>C35 to C44 Aliphatic	µg/l	10	-		<10.0	<10.0	<100.0
Total Aliphatic C5-35	µg/l	340	-				
>C5 to C7 Aromatic	µg/l	5	-		<5.0	<5.0	<5.0
>C7 to C8 Aromatic	µg/l	5	-		<5.0	<5.0	<5.0
>C8 to C10 Aromatic	µg/l	20	-		<20.0	<20.0	<20.0
>C10 to C12 Aromatic	µg/l	10	-		<10.0	<10.0	<100.0
>C12 to C16 Aromatic	µg/l	10	-		<10.0	<10.0	<100.0
>C16 to C21 Aromatic	µg/l	10	-		<10.0	<10.0	<100.0
>C21 to C35 Aromatic	µg/l	10	-		10	<10.0	110
>C35 to C44 Aromatic	µg/l	10	-		<10.0	<10.0	<100.0
Total Aromatic C5-C35	µg/l	70	-				
TPH Ali/Aro	µg/l	410	-		<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 20.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , <10.0 (Aliphatics >C8-40) , 10.0 (Aromatics >C8-40)	<100.0 (GRO >C5-10) , 450.0 (Aliphatics >C8-40) , 180.0 (Aromatics >C8-40)
Benzene	µg/l	1	10		<5	<5	<5
Ethylbenzene	µg/l	0.5	-		<5	<5	<5
Toluene	µg/l	1	74		<5	<5	<5
Xylene	µg/l		30				
M- & P-Xylene	µg/l	1	-		<10	<10	<10
O-Xylene	µg/l	1	-		<5	<5	<5
Total Xylene (M, P & O)	µg/l	2	-		<15	<15	<15
MTBE	µg/l	1	-		<10	<10	<10
naphthalene	µg/l	0.01	2		0.05	0	0.24
acenaphthylene	µg/l	0.01	-		<0.01	0	<0.10
acenaphthene	µg/l	0.01	-		<0.01	0	0.12
fluorene	µg/l	0.01	-		<0.01	0	0.2
phenanthrene	µg/l	0.01	-		<0.01	0	0.47
anthracene	µg/l	0.01	0.1		<0.01	0	0.11
fluoranthene	µg/l	0.01	0.0063		<0.01	0	0.42
pyrene	µg/l	0.01	-		0.01	0.0208	0.46
benzo(a)anthracene	µg/l	0.01	-		<0.01	0	0.21
chrysene	µg/l	0.01	-		<0.01	0	0.31
benzo(b)fluoranthene	µg/l	0.01	0.017		<0.01	0	0.43
benzo(k)fluoranthene	µg/l	0.01	0.017		<0.01	0	0.23
benzo(a)pyrene	µg/l	0.01	0.00017		<0.01	0	0.5
benzo(g,h,i)perylene	µg/l	0.01	0.0082		<0.01	0	<0.10
dibenzo(ah)anthracene	µg/l	0.01	-		<0.01	0	<0.10
indeno(1,2,3-c,d)pyrene	µg/l	0.01	-		<0.01	0	0.24
Sum (benzo b, k, ghi & indeno123cd)	µg/l	0.04	-				
Total PAH	µg/l	0.16	-		0.2	0.0208	4.22
PFAS			#N/A				
Perfluorooctanesulfonic acid	µg/l	0.008	#N/A				
Perfluorooctanoic acid	µg/l	0.008	#N/A				

Tentatively Identified Compounds in Phase 3B/3C Groundwater Samples

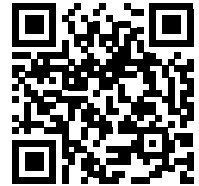
Groundwater TICs in mg/l											
	3G4022DS	3G4037DS	3G4037DS	3G4038DS	3G4038DS	3G4038DS	3G4022DS	3W8530SA	3W8536SA	3W8536SA	3W8536SA
	3.04	5.1 m bgl	5.22	2	1.01 m bgl	1.33 m bgl	3.04 m bgl	7 m bgl	3.81 m bgl	5.5 m bgl	10 m bgl
2-Propen-1-amine											0.013
Acetaldehyde, tetramer								0.01			
di-tert-Butyl dicarbonate						0.022					
Hexane, 2,2-dimethyl-					0.011				0.016		
Neopentane			0.025								
Pentane, 2,2,4,4-tetramethyl-				0.012							
Pentane, 2,2,4-trimethyl-	0.011	0.017					0.011			0.023	

Appendix E: HazWasteOnline™ Reports

Waste Classification Report

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

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



Y800V-CW7GI-40U9Y

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

Job name

Hampshire Water Transfer and Water Recycling Project (HWTWRP)[14]

Description/Comments

Waste classification of soils to be excavated for proposed pipeline.
Boreholes 2G4001SA, 2G4002DS, 2G4003DS, 2G4003DS, and 2G4004DS are located in agricultural land.

Project

Phase 2 GIR

Site

Section G

Classified by

Name: **Akansha Patel**
Date: **27 Mar 2024 16:49 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

Hazardous Waste Classification

Date

09 Feb 2023

Next 3 year Refresher due by Feb 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

Titchfield Lane, Fareham

Post Code **PO17 5PJ**

SIC for the process giving rise to the waste

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

Description of the waste

2G4001SA between 0m to 0.25m bgl is top soil, 0.25m to 0.70m bgl is Alluvium, 0.70m to 0m to 3.50m bgl is River Terrace Deposits, 3.50m to 10.90m bgl is London Clay Formation and 10.90m to 20m bgl is Lambeth Group
2G4002DS between 0m to 0.40m bgl is Made Ground, 0.40 to 0.55m bgl is River Terrace Deposits, 0.55 to 1.20m bgl is Earnley Sand Formation, 1.20 to 3.00m bgl is Wittering Formation.
2G4003DS between 0m to 0.40m bgl is Made Ground, 0.40 to 0.665m bgl is head deposits, 0.65m to 1.20m bgl Earnley Sand Formation, and 1.20m to 4.00m bgl is Wittering Formation.
2G4004DS between 0m to 0.40m bgl is Made Ground, 0.40 to 0.65m bgl is River Terrace Deposits, 0.65 to 1.20m bgl is Earnley Sand Formation, and 1.20 to 3.00m bgl is Wittering Formation.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	2G4001SA	0.5	Non Hazardous		3
2	2G4001SA[2]	3	Non Hazardous		5
3	2G4001SA[3]	11	Non Hazardous		7
4	2G4002DS	0.1	Non Hazardous		9
5	2G4002DS[2]	1	Non Hazardous		12
6	2G4002DS[3]	2.8	Non Hazardous		15
7	2G4003DS	0.1	Non Hazardous		18
8	2G4003DS[2]	1	Non Hazardous		21
9	2G4003DS[3]	2.8	Non Hazardous		24
10	2G4003DS[4]	3.7	Non Hazardous		27
11	2G4004DS	0.1	Non Hazardous		30
12	2G4004DS[2]	0.5	Non Hazardous		33
13	2G4004DS[3]	2.45	Non Hazardous		36

Related documents

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

Report

Created by: Akansha Patel

Created date: 27 Mar 2024 16:49 GMT

Appendices

	Page
Appendix A: Classifier defined and non GB MCL determinands	39
Appendix B: Rationale for selection of metal species	40
Appendix C: Version	41

Classification of sample: 2G4001SA

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

Sample details

Sample name:	LoW Code:
2G4001SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				4.8 mg/kg	1.32	6.338 mg/kg	0.000634 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.6 mg/kg	1.462	22.8 mg/kg	0.00228 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				7.2 mg/kg	1.126	8.106 mg/kg	0.000811 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	9.8 mg/kg	1.56	15.286 mg/kg	0.00098 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				19.1 mg/kg	2.774	52.986 mg/kg	0.0053 %		
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %		
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		7.3 pH		7.3 pH	7.3 pH		
Total:								0.0106 %		

Key

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

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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00001%)

Classification of sample: 2G4001SA[2]

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

Sample details

Sample name:	LoW Code:
2G4001SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				40 mg/kg	1.462	58.462 mg/kg	0.00585 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				31.3 mg/kg	1.126	35.24 mg/kg	0.00352 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	21.6 mg/kg	1.56	33.692 mg/kg	0.00216 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				85.7 mg/kg	2.774	237.744 mg/kg	0.0238 %		
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				3 mg/kg	3.22	9.66 mg/kg	0.000966 %		
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		8.1 pH		8.1 pH	8.1 pH		
Total:								0.038 %		

Key

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

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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

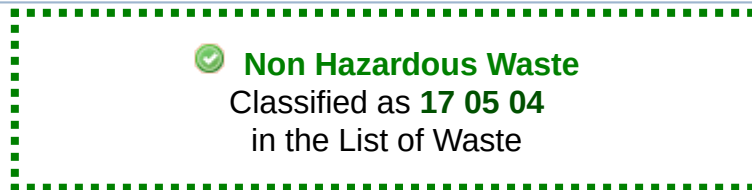
Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00001%)

Classification of sample: 2G4001SA[3]



Sample details

Sample name:	LoW Code:
2G4001SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
11 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1.7 mg/kg	1.32	2.245 mg/kg	0.000224 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.2 mg/kg	1.462	30.985 mg/kg	0.0031 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				24.4 mg/kg	1.126	27.472 mg/kg	0.00275 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	7.5 mg/kg	1.56	11.699 mg/kg	0.00075 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				111.8 mg/kg	2.774	310.15 mg/kg	0.031 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.8 mg/kg	3.22	9.016 mg/kg	0.000902 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		9.2 pH		9.2 pH	9.2 pH		
Total:								0.0389 %		

Key

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

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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00001%)

Classification of sample: 2G4002DS

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

Sample details

Sample name:	LoW Code:
2G4002DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.4 mg/kg	1.462	18.123 mg/kg	0.00181 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.881 mg/kg	0.000788 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	12.6 mg/kg	1.56	19.654 mg/kg	0.00126 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				16 mg/kg	2.774	44.386 mg/kg	0.00444 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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	604-001-00-2	203-632-7	108-95-2	0.55 mg/kg		0.55 mg/kg	0.000055 %		
16	benzene	601-020-00-8	200-753-7	71-43-2	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
17	toluene	601-021-00-3	203-625-9	108-88-3	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
18	• ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
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]	0.036 mg/kg		0.036 mg/kg	0.0000036 %		
20	naphthalene	601-052-00-2	202-049-5	91-20-3	0.1 mg/kg		0.1 mg/kg	0.00001 %		
21	• acenaphthylene		205-917-1	208-96-8	0.1 mg/kg		0.1 mg/kg	0.00001 %		
22	• acenaphthene		201-469-6	83-32-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
23	• fluorene		201-695-5	86-73-7	0.1 mg/kg		0.1 mg/kg	0.00001 %		
24	• phenanthrene		201-581-5	85-01-8	0.1 mg/kg		0.1 mg/kg	0.00001 %		
25	• anthracene		204-371-1	120-12-7	0.1 mg/kg		0.1 mg/kg	0.00001 %		
26	• fluoranthene		205-912-4	206-44-0	0.1 mg/kg		0.1 mg/kg	0.00001 %		
27	• pyrene		204-927-3	129-00-0	0.1 mg/kg		0.1 mg/kg	0.00001 %		
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.1 mg/kg		0.1 mg/kg	0.00001 %		
29	chrysene	601-048-00-0	205-923-4	218-01-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
30	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.1 mg/kg		0.1 mg/kg	0.00001 %		
31	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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 %		
33	• indeno[123-cd]pyrene		205-893-2	193-39-5	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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 %		
35	• benzo[ghi]perylene		205-883-8	191-24-2	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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	0.042 mg/kg		0.042 mg/kg	0.0000042 %		
38	• TPH (C6 to C40) petroleum group			TPH	54.719 mg/kg		54.719 mg/kg	0.00547 %		
39	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 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.2e-06%)

toluene: (conc.: 1.2e-06%)

ethylbenzene: (conc.: 1.2e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.4e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.6e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00547%)

Classification of sample: 2G4002DS[2]

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

Sample details

Sample name:	LoW Code:
2G4002DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.5% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				5.9 mg/kg	1.32	7.79 mg/kg	0.000779 %			
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %			
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.3 mg/kg	1.462	38.439 mg/kg	0.00384 %			
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %			
		024-001-00-0	215-607-8	1333-82-0								
5		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %			
		034-002-00-8										
6		copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.881 mg/kg	0.000788 %			
		029-002-00-X	215-270-7	1317-39-1								
7		lead { lead chromate }			1	9.9 mg/kg	1.56	15.442 mg/kg	0.00099 %			
		082-004-00-2	231-846-0	7758-97-6								
8		mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %			
		080-010-00-X	231-299-8	7487-94-7								
9		nickel { nickel chromate }				5.4 mg/kg	2.976	16.072 mg/kg	0.00161 %			
		028-035-00-7	238-766-5	14721-18-7								
10		zinc { zinc chromate }				16.4 mg/kg	2.774	45.496 mg/kg	0.00455 %			
		024-007-00-3	236-878-9	13530-65-9								
11		boron { diboron trioxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %			
		005-008-00-8	215-125-8	1303-86-2								
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %			
		006-007-00-5										
13		asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD	
		650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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				0.41 mg/kg		0.41 mg/kg	0.000041 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	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 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-917-1	208-96-8							
22	acenaphthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-469-6	83-32-9							
23	fluorene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-695-5	86-73-7							
24	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-581-5	85-01-8							
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-371-1	120-12-7							
26	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-912-4	206-44-0							
27	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	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 %		
	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 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		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				54.868 mg/kg		54.868 mg/kg	0.00549 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.025 mg/kg		0.025 mg/kg	0.0000025 %		
	603-181-00-X	216-653-1	1634-04-4							

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.2e-06%)

toluene: (conc.: 1.2e-06%)

ethylbenzene: (conc.: 1.2e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.5e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.7e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00549%)

Classification of sample: 2G4002DS[3]

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

Sample details

Sample name:	LoW Code:
2G4002DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
29%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				38.3 mg/kg	1.462	55.978 mg/kg	0.0056 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				19.7 mg/kg	1.126	22.18 mg/kg	0.00222 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	25.8 mg/kg	1.56	40.243 mg/kg	0.00258 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				6 mg/kg	2.976	17.858 mg/kg	0.00179 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				16 mg/kg	2.774	44.386 mg/kg	0.00444 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.7 mg/kg	1.884	1.319 mg/kg	0.000132 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				6.1 pH		6.1 pH	6.1 pH		
			PH							
15	phenol				0.55 mg/kg		0.55 mg/kg	0.000055 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.014 mg/kg		0.014 mg/kg	0.0000014 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.014 mg/kg		0.014 mg/kg	0.0000014 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.014 mg/kg		0.014 mg/kg	0.0000014 %		
	601-023-00-4	202-849-4	100-41-4							
19	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				0.042 mg/kg		0.042 mg/kg	0.0000042 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		205-917-1	208-96-8							
22	acenaphthene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		201-469-6	83-32-9							
23	fluorene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		201-695-5	86-73-7							
24	phenanthrene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		201-581-5	85-01-8							
25	anthracene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		204-371-1	120-12-7							
26	fluoranthene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		205-912-4	206-44-0							
27	pyrene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	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				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	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				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		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				0.049 mg/kg		0.049 mg/kg	0.0000049 %		
	602-039-00-4	215-648-1	1336-36-3							
38	TPH (C6 to C40) petroleum group				73.601 mg/kg		73.601 mg/kg	0.00736 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.028 mg/kg		0.028 mg/kg	0.0000028 %		
	603-181-00-X	216-653-1	1634-04-4							

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.4e-06%)

toluene: (conc.: 1.4e-06%)

ethylbenzene: (conc.: 1.4e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.8e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 4.2e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00736%)

Classification of sample: 2G4003DS

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

Sample details

Sample name:	LoW Code:
2G4003DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **18.4% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				6.2 mg/kg	1.32	8.186 mg/kg	0.000819 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				7.2 mg/kg	1.126	8.106 mg/kg	0.000811 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	12.7 mg/kg	1.56	19.81 mg/kg	0.00127 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				19.8 mg/kg	2.774	54.928 mg/kg	0.00549 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { triboron trioxide }				0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				7.6 pH		7.6 pH	7.6 pH		
			PH							
15	phenol				0.76 mg/kg		0.76 mg/kg	0.000076 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	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 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-917-1	208-96-8							
22	acenaphthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-469-6	83-32-9							
23	fluorene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-695-5	86-73-7							
24	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-581-5	85-01-8							
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-371-1	120-12-7							
26	fluoranthene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
		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 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
	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 %		
	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 %		
	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 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		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				102.908 mg/kg		102.908 mg/kg	0.0103 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.025 mg/kg		0.025 mg/kg	0.0000025 %		
	603-181-00-X	216-653-1	1634-04-4							

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.2e-06%)

toluene: (conc.: 1.2e-06%)

ethylbenzene: (conc.: 1.2e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.5e-06%)

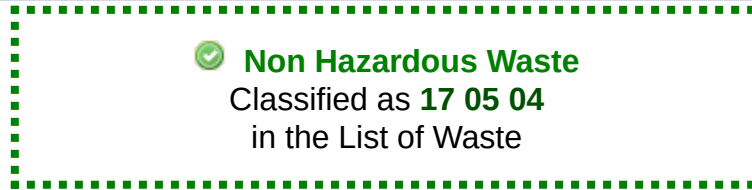
Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.7e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.0103%)

Classification of sample: 2G4003DS[2]



Sample details

Sample name:	LoW Code:
2G4003DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30 mg/kg	1.462	43.847 mg/kg	0.00438 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				7.7 mg/kg	1.126	8.669 mg/kg	0.000867 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	8.6 mg/kg	1.56	13.414 mg/kg	0.00086 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				5.1 mg/kg	2.976	15.179 mg/kg	0.00152 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				25.3 mg/kg	2.774	70.186 mg/kg	0.00702 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1.1 mg/kg	3.22	3.542 mg/kg	0.000354 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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	0.53 mg/kg		0.53 mg/kg	0.000053 %		
16	benzene	601-020-00-8	200-753-7	71-43-2	0.013 mg/kg		0.013 mg/kg	0.0000013 %		
17	toluene	601-021-00-3	203-625-9	108-88-3	0.013 mg/kg		0.013 mg/kg	0.0000013 %		
18	• ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.013 mg/kg		0.013 mg/kg	0.0000013 %		
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]	0.038 mg/kg		0.038 mg/kg	0.0000038 %		
20	naphthalene	601-052-00-2	202-049-5	91-20-3	0.1 mg/kg		0.1 mg/kg	0.00001 %		
21	• acenaphthylene		205-917-1	208-96-8	0.1 mg/kg		0.1 mg/kg	0.00001 %		
22	• acenaphthene		201-469-6	83-32-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
23	• fluorene		201-695-5	86-73-7	0.1 mg/kg		0.1 mg/kg	0.00001 %		
24	• phenanthrene		201-581-5	85-01-8	0.1 mg/kg		0.1 mg/kg	0.00001 %		
25	• anthracene		204-371-1	120-12-7	0.1 mg/kg		0.1 mg/kg	0.00001 %		
26	• fluoranthene		205-912-4	206-44-0	0.1 mg/kg		0.1 mg/kg	0.00001 %		
27	• pyrene		204-927-3	129-00-0	0.1 mg/kg		0.1 mg/kg	0.00001 %		
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.1 mg/kg		0.1 mg/kg	0.00001 %		
29	chrysene	601-048-00-0	205-923-4	218-01-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
30	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.1 mg/kg		0.1 mg/kg	0.00001 %		
31	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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 %		
33	• indeno[123-cd]pyrene		205-893-2	193-39-5	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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 %		
35	• benzo[ghi]perylene		205-883-8	191-24-2	0.1 mg/kg		0.1 mg/kg	0.00001 %		
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	0.044 mg/kg		0.044 mg/kg	0.0000044 %		
38	• TPH (C6 to C40) petroleum group			TPH	56.833 mg/kg		56.833 mg/kg	0.00568 %		
39	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 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.3e-06%)

toluene: (conc.: 1.3e-06%)

ethylbenzene: (conc.: 1.3e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.5e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.8e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00568%)

Classification of sample: 2G4003DS[3]

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

Sample details

Sample name:	LoW Code:
2G4003DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				1.5 mg/kg	1.32	1.98 mg/kg	0.000198 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.7 mg/kg	1.462	33.177 mg/kg	0.00332 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				16.8 mg/kg	1.126	18.915 mg/kg	0.00189 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	13.5 mg/kg	1.56	21.058 mg/kg	0.00135 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				6.5 mg/kg	2.976	19.346 mg/kg	0.00193 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				22.6 mg/kg	2.774	62.696 mg/kg	0.00627 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				5.9 pH		5.9 pH	5.9 pH		
			PH							
15	phenol				0.48 mg/kg		0.48 mg/kg	0.000048 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	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 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-917-1	208-96-8							
22	acenaphthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-469-6	83-32-9							
23	fluorene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-695-5	86-73-7							
24	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-581-5	85-01-8							
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-371-1	120-12-7							
26	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-912-4	206-44-0							
27	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	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 %		
	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 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		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 %		
	602-039-00-4	215-648-1	1336-36-3							
38	TPH (C6 to C40) petroleum group				60.229 mg/kg		60.229 mg/kg	0.00602 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.026 mg/kg		0.026 mg/kg	0.0000026 %		
	603-181-00-X	216-653-1	1634-04-4							

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.3e-06%)

toluene: (conc.: 1.3e-06%)

ethylbenzene: (conc.: 1.3e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.6e-06%)

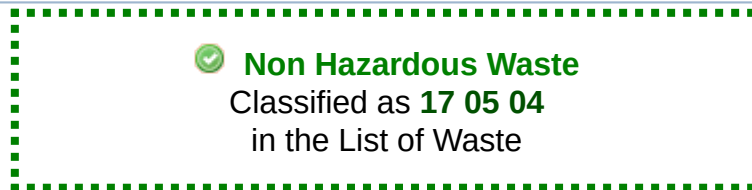
Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.9e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00602%)

Classification of sample: 2G4003DS[4]



Sample details

Sample name:	LoW Code:
2G4003DS[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.7 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				19.3 mg/kg	1.32	25.482 mg/kg	0.00255 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.2 mg/kg	1.462	25.139 mg/kg	0.00251 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				14.4 mg/kg	1.126	16.213 mg/kg	0.00162 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	16.6 mg/kg	1.56	25.893 mg/kg	0.00166 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				2.9 mg/kg	2.976	8.631 mg/kg	0.000863 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				16 mg/kg	2.774	44.386 mg/kg	0.00444 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.5 mg/kg	1.884	0.942 mg/kg	0.0000942 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	• pH		PH		5 pH		5 pH	5pH		
15	phenol				0.39 mg/kg		0.39 mg/kg	0.000039 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.01 mg/kg		0.01 mg/kg	0.000001 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.01 mg/kg		0.01 mg/kg	0.000001 %		
	601-021-00-3	203-625-9	108-88-3							
18	• ethylbenzene				0.01 mg/kg		0.01 mg/kg	0.000001 %		
	601-023-00-4	202-849-4	100-41-4							
19	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				0.03 mg/kg		0.03 mg/kg	0.000003 %		
	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				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-052-00-2	202-049-5	91-20-3							
21	• acenaphthylene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-917-1	208-96-8							
22	• acenaphthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		201-469-6	83-32-9							
23	• fluorene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		201-695-5	86-73-7							
24	• phenanthrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		201-581-5	85-01-8							
25	• anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		204-371-1	120-12-7							
26	• fluoranthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-912-4	206-44-0							
27	• pyrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-032-00-3	200-028-5	50-32-8							
33	• indeno[123-cd]pyrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-041-00-2	200-181-8	53-70-3							
35	• benzo[ghi]perylene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-883-8	191-24-2							
36	• coronene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-881-7	191-07-1							
37	• polychlorobiphenyls; PCB				0.035 mg/kg		0.035 mg/kg	0.0000035 %		
	602-039-00-4	215-648-1	1336-36-3							
38	• TPH (C6 to C40) petroleum group				63.433 mg/kg		63.433 mg/kg	0.00634 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.02 mg/kg		0.02 mg/kg	0.000002 %		
	603-181-00-X	216-653-1	1634-04-4							

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.0e-06%)

toluene: (conc.: 1.0e-06%)

ethylbenzene: (conc.: 1.0e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.0e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.0e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00634%)

Classification of sample: 2G4004DS

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

Sample details

Sample name:	LoW Code:
2G4004DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **18.5% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.2 mg/kg	1.462	32.447 mg/kg	0.00324 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				6.1 mg/kg	1.126	6.868 mg/kg	0.000687 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	9 mg/kg	1.56	14.038 mg/kg	0.0009 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				5.3 mg/kg	2.976	15.774 mg/kg	0.00158 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				16.3 mg/kg	2.774	45.219 mg/kg	0.00452 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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				1.1 mg/kg		1.1 mg/kg	0.00011 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.012 mg/kg		0.012 mg/kg	0.0000012 %		
	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 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-917-1	208-96-8							
22	acenaphthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-469-6	83-32-9							
23	fluorene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-695-5	86-73-7							
24	phenanthrene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
		201-581-5	85-01-8							
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-371-1	120-12-7							
26	fluoranthene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
		205-912-4	206-44-0							
27	pyrene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	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				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	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 %		
	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 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		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				55.168 mg/kg		55.168 mg/kg	0.00552 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.025 mg/kg		0.025 mg/kg	0.0000025 %		
	603-181-00-X	216-653-1	1634-04-4							

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.2e-06%)

toluene: (conc.: 1.2e-06%)

ethylbenzene: (conc.: 1.2e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.5e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.7e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00552%)

Classification of sample: 2G4004DS[2]

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

Sample details

Sample name:	LoW Code:
2G4004DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.2 mg/kg	1.126	9.232 mg/kg	0.000923 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	21.7 mg/kg	1.56	33.848 mg/kg	0.00217 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				7.3 mg/kg	2.976	21.727 mg/kg	0.00217 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				23.4 mg/kg	2.774	64.915 mg/kg	0.00649 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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	604-001-00-2	203-632-7	108-95-2	0.45 mg/kg		0.45 mg/kg	0.000045 %		
16	benzene	601-020-00-8	200-753-7	71-43-2	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
17	toluene	601-021-00-3	203-625-9	108-88-3	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
18	• ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.012 mg/kg		0.012 mg/kg	0.0000012 %		
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]	0.036 mg/kg		0.036 mg/kg	0.0000036 %		
20	naphthalene	601-052-00-2	202-049-5	91-20-3	0.09 mg/kg		0.09 mg/kg	0.000009 %		
21	• acenaphthylene		205-917-1	208-96-8	0.09 mg/kg		0.09 mg/kg	0.000009 %		
22	• acenaphthene		201-469-6	83-32-9	0.09 mg/kg		0.09 mg/kg	0.000009 %		
23	• fluorene		201-695-5	86-73-7	0.09 mg/kg		0.09 mg/kg	0.000009 %		
24	• phenanthrene		201-581-5	85-01-8	0.09 mg/kg		0.09 mg/kg	0.000009 %		
25	• anthracene		204-371-1	120-12-7	0.09 mg/kg		0.09 mg/kg	0.000009 %		
26	• fluoranthene		205-912-4	206-44-0	0.09 mg/kg		0.09 mg/kg	0.000009 %		
27	• pyrene		204-927-3	129-00-0	0.09 mg/kg		0.09 mg/kg	0.000009 %		
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.09 mg/kg		0.09 mg/kg	0.000009 %		
29	chrysene	601-048-00-0	205-923-4	218-01-9	0.09 mg/kg		0.09 mg/kg	0.000009 %		
30	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.09 mg/kg		0.09 mg/kg	0.000009 %		
31	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.09 mg/kg		0.09 mg/kg	0.000009 %		
32	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 %		
33	• indeno[123-cd]pyrene		205-893-2	193-39-5	0.09 mg/kg		0.09 mg/kg	0.000009 %		
34	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.09 mg/kg		0.09 mg/kg	0.000009 %		
35	• benzo[ghi]perylene		205-883-8	191-24-2	0.09 mg/kg		0.09 mg/kg	0.000009 %		
36	• coronene		205-881-7	191-07-1	<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
37	• polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	0.041 mg/kg		0.041 mg/kg	0.0000041 %		
38	• TPH (C6 to C40) petroleum group			TPH	52.7 mg/kg		52.7 mg/kg	0.00527 %		
39	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 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.2e-06%)

toluene: (conc.: 1.2e-06%)

ethylbenzene: (conc.: 1.2e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.4e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.6e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00527%)

Classification of sample: 2G4004DS[3]

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

Sample details

Sample name:	LoW Code:
2G4004DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.45 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
23.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 23.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				2.2 mg/kg	1.32	2.905 mg/kg	0.00029 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.9 mg/kg	1.462	29.085 mg/kg	0.00291 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.1 mg/kg	1.923	0.192 mg/kg	0.0000192 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				11.3 mg/kg	1.126	12.723 mg/kg	0.00127 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	24.7 mg/kg	1.56	38.527 mg/kg	0.00247 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				5.8 mg/kg	2.976	17.262 mg/kg	0.00173 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				20.5 mg/kg	2.774	56.87 mg/kg	0.00569 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.7 mg/kg	1.884	1.319 mg/kg	0.000132 %		
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				6.7 pH		6.7 pH	6.7 pH		
			PH							
15	phenol				0.5 mg/kg		0.5 mg/kg	0.00005 %		
	604-001-00-2	203-632-7	108-95-2							
16	benzene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	601-020-00-8	200-753-7	71-43-2							
17	toluene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	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 %		
	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 %		
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-917-1	208-96-8							
22	acenaphthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-469-6	83-32-9							
23	fluorene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-695-5	86-73-7							
24	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-581-5	85-01-8							
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-371-1	120-12-7							
26	fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		205-912-4	206-44-0							
27	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	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 %		
	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 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		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				0.046 mg/kg		0.046 mg/kg	0.0000046 %		
	602-039-00-4	215-648-1	1336-36-3							
38	TPH (C6 to C40) petroleum group				61.071 mg/kg		61.071 mg/kg	0.00611 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.03 mg/kg		0.03 mg/kg	0.000003 %		
	603-181-00-X	216-653-1	1634-04-4							

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 The concentration of chromium (VI) is low hence, there is not enough chromium (VI) to be oxidised.

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.3e-06%)

toluene: (conc.: 1.3e-06%)

ethylbenzene: (conc.: 1.3e-06%)

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 3.0e-06%)

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

Because of determinands:

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 3.9e-06%)

TPH (C6 to C40) petroleum group: (conc.: 0.00611%)

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.

■ **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

■ **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

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.

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)

nickel {nickel chromate}

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

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: 2024.80.5988.11077 (20 Mar 2024)

HazWasteOnline Database: 2024.80.5988.11077 (20 Mar 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

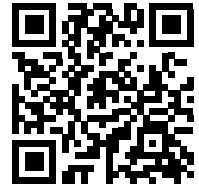
GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v4.0 - version 4.0 of 2nd March 2024

Waste Classification Report

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

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



QAY1H-H7NLN-2B78I

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

Job name

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

Description/Comments

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

Chrysotile was identified at 0.009% w/w within 3G4038DS, 0.10 m bgl, Made Ground.

Laboratory analysis on samples was carried out by SOCOTEC Environmental Chemistry.

Project

Water for Life

Site

Section G

Classified by

Name: Samuel Doyle
 Date: 18 Nov 2024 16:24 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

Hazardous Waste Classification

Date

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 in order to install a new pipeline. Largely through open cut methods but also at trenchless crossing locations.

Description of the waste

Exploratory hole locations advanced along Section G encountered topsoil, made ground and natural soils.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	3G4022DS	0.2	Non Hazardous		4
2	3G4022DS[2]	1.1	Non Hazardous		7
3	3G4022DS[3]	3.5	Non Hazardous		10
4	3G4023HP	0.5	Non Hazardous		13
5	3G4024DS	1	Non Hazardous		16
6	3G4024DS[2]	2.9	Non Hazardous		19
7	3G4037DS	0.5	Non Hazardous		22
8	3G4037DS[2]	2.6	Non Hazardous		25
9	3G4037DS[3]	4.6	Non Hazardous		28
10	3G4038DS	0.1	Non Hazardous		31
11	3G4038DS[2]	1	Non Hazardous		34
12	3G4038DS[3]	3.8	Non Hazardous		37
13	3G4102SA	0.1	Non Hazardous		40
14	3G4102SA[2]	1	Non Hazardous		43
15	3G4102SA[3]	18	Non Hazardous		45
16	3G4102SA[4]	5	Non Hazardous		47
17	3G4105SA	1	Hazardous	HP 7, HP 11	49
18	3G4105SA[2]	14.1	Non Hazardous		54
19	3G4105SA[3]	2.8	Non Hazardous		56
20	3G4105SA[4]	30	Non Hazardous		60
21	3G4106SA	0.5	Non Hazardous		62
22	3G4106SA[2]	2.8	Non Hazardous		65
23	3G4106SA[3]	4.3	Non Hazardous		68
24	3G4106SA[4]	9.5	Non Hazardous		71
25	3G7525IT	0.5	Non Hazardous		73
26	3G7525IT[2]	1	Non Hazardous		76
27	3G7530IT	0.5	Non Hazardous		80
28	3G7530IT[2]	1	Non Hazardous		84
29	3W8526HP	0.5	Non Hazardous		87
30	3W8526HP[2]	0.95	Non Hazardous		89
31	3W8528HP	0.5	Non Hazardous		91
32	3W8528HP[2]	1	Non Hazardous		93
33	3W8529SA	0.5	Non Hazardous		95
34	3W8529SA[2]	1.8	Non Hazardous		97
35	3W8529SA[3]	5.5	Non Hazardous		99
36	3W8530SA	0.3	Non Hazardous		101
37	3W8530SA[2]	1	Non Hazardous		103
38	3W8530SA[3]	3	Non Hazardous		105
39	3W8530SA[4]	6	Non Hazardous		107
40	3W8531HP	0.5	Non Hazardous		109
41	3W8531HP[2]	1	Non Hazardous		111
42	3W8532HP	0.5	Non Hazardous		113
43	3W8532HP[2]	1	Non Hazardous		115
44	3W8534DS	0.5	Non Hazardous		117
45	3W8534DS[2]	2.5	Non Hazardous		120
46	3W8534DS[3]	3.8	Non Hazardous		123
47	3W8535SA	0.5	Non Hazardous		126
48	3W8535SA[2]	12.9	Non Hazardous		128
49	3W8535SA[3]	2	Non Hazardous		130
50	3W8535SA[4]	4.5	Non Hazardous		132
51	3W8536SA	0.5	Non Hazardous		134
52	3W8536SA[2]	1	Non Hazardous		137
53	3W8536SA[3]	1.7	Non Hazardous		142
54	3W8536SA[4]	2.9	Non Hazardous		145
55	3W8536SA[5]	7	Non Hazardous		148
56	3W8538HP	0.1	Non Hazardous		151
57	3W8538HP[2]	0.6	Non Hazardous		154
58	3W8539DS	0.1	Non Hazardous		156
59	3W8539DS[2]	0.8	Hazardous	HP 7, HP 11	159

Related documents

#	Name	Description



Report

Created by: Samuel Doyle

Created date: 18 Nov 2024 16:24 GMT

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Classification of sample: 3G4022DS

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

Sample details

Sample name:	LoW Code:
3G4022DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **13.4% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				13.4 mg/kg	1.32	17.692 mg/kg	0.00177 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				35.1 mg/kg	1.462	51.301 mg/kg	0.00513 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				8.4 mg/kg	1.126	9.457 mg/kg	0.000946 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	12.5 mg/kg	1.56	19.498 mg/kg	0.00125 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				9 mg/kg	2.976	26.786 mg/kg	0.00268 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				32.6 mg/kg	2.774	90.437 mg/kg	0.00904 %			
	024-007-00-3	236-878-9	13530-65-9								
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	 pH		PH		6.8 pH		6.8 pH	6.8 pH			
13	 phenol				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<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	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<LOD
15	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16	monohydric phenols P1186				<0.53	mg/kg		<0.53	mg/kg	<0.000053 %		<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
21	acenaphthylene 205-917-1	208-96-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
22	acenaphthene 201-469-6	83-32-9			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
23	fluorene 201-695-5	86-73-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
24	phenanthrene 201-581-5	85-01-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	anthracene 204-371-1	120-12-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
26	fluoranthene 205-912-4	206-44-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	pyrene 204-927-3	129-00-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
32	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
33	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
34	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
35	benzo[ghi]perylene 205-883-8	191-24-2			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
36	coronene 205-881-7	191-07-1			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
37	TPH (C6 to C40) petroleum group TPH				143	mg/kg		143	mg/kg	0.0143 %		
38	pentachlorobenzene 602-074-00-5	210-172-0	608-93-5		<0.0011	mg/kg		<0.0011	mg/kg	<0.00000115 %		<LOD
39	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
40	aldrin (ISO) 602-048-00-3	206-215-8	309-00-2		<0.0023	mg/kg		<0.0023	mg/kg	<0.00000231 %		<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	dieldrin (ISO)				<0.0057 mg/kg		<0.0057 mg/kg	<0.000000577 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
42	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000231 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000231 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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				0.0127 mg/kg		0.0127 mg/kg	0.00000126 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0057 mg/kg		0.0057 mg/kg	0.000000577 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000115 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000115 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000231 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0366 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.0143%)

Classification of sample: 3G4022DS[2]

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

Sample details

Sample name:	LoW Code:
3G4022DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10.9 mg/kg	1.462	15.931 mg/kg	0.00159 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.5 mg/kg	1.923	0.962 mg/kg	0.0000962 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10.3 mg/kg	1.126	11.597 mg/kg	0.00116 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	34.6 mg/kg	1.56	53.97 mg/kg	0.00346 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				35.5 mg/kg	2.774	98.482 mg/kg	0.00985 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				7.1 pH		7.1 pH	7.1 pH		
			PH							
13	phenol				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<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	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]										
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %			<LOD
15	pentachlorophenol										
	604-002-00-8	201-778-6	87-86-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
16	monohydric phenols										
			P1186		<0.57 mg/kg		<0.57 mg/kg	<0.000057 %			<LOD
17	benzene										
	601-020-00-8	200-753-7	71-43-2		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<LOD
18	toluene										
	601-021-00-3	203-625-9	108-88-3		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<LOD
19	ethylbenzene										
	601-023-00-4	202-849-4	100-41-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<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	TPH (C6 to C40) petroleum group										
			TPH		41.3 mg/kg		41.3 mg/kg	0.00413 %			
38	pentachlorobenzene										
	602-074-00-5	210-172-0	608-93-5		<0.0012 mg/kg		<0.0012 mg/kg	<0.00000123 %			<LOD
39	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
40	aldrin (ISO)										
	602-048-00-3	206-215-8	309-00-2		<0.0024 mg/kg		<0.0024 mg/kg	<0.000000247 %			<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	dieldrin (ISO)				<0.0061 mg/kg		<0.0061 mg/kg	<0.000000617 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
42	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							
43	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							
44	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				0.0135 mg/kg		0.0135 mg/kg	0.00000135 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0061 mg/kg		0.0061 mg/kg	0.000000617 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000123 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0012 mg/kg		<0.0012 mg/kg	<0.000000123 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0024 mg/kg		<0.0024 mg/kg	<0.000000247 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.024 %		

Key

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

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00009%)

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 3.2% to 34.8%, 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.: 0.00413%)

Classification of sample: 3G4022DS[3]

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

Sample details

Sample name:	LoW Code:
3G4022DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				4.3 mg/kg	1.32	5.677 mg/kg	0.000568 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11.1 mg/kg	1.462	16.223 mg/kg	0.00162 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				11.1 mg/kg	1.126	12.497 mg/kg	0.00125 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	26.2 mg/kg	1.56	40.867 mg/kg	0.00262 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				13.2 mg/kg	2.976	39.287 mg/kg	0.00393 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				44.1 mg/kg	2.774	122.34 mg/kg	0.0122 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	 pH		PH		7.1 pH		7.1 pH	7.1 pH		
13	phenol				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<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	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<LOD
15	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16	monohydric phenols P1186				<0.52	mg/kg		<0.52	mg/kg	<0.000052 %		<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
21	acenaphthylene 205-917-1	208-96-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
22	acenaphthene 201-469-6	83-32-9			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
23	fluorene 201-695-5	86-73-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
24	phenanthrene 201-581-5	85-01-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	anthracene 204-371-1	120-12-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
26	fluoranthene 205-912-4	206-44-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	pyrene 204-927-3	129-00-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
32	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
33	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
34	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
35	benzo[ghi]perylene 205-883-8	191-24-2			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
36	coronene 205-881-7	191-07-1			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
37	TPH (C6 to C40) petroleum group TPH				32	mg/kg		32	mg/kg	0.0032 %		
38	pentachlorobenzene 602-074-00-5	210-172-0	608-93-5		<0.0011	mg/kg		<0.0011	mg/kg	<0.000000112 %		<LOD
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.022	mg/kg		<0.022	mg/kg	<0.0000022 %		<LOD
40	aldrin (ISO) 602-048-00-3	206-215-8	309-00-2		<0.0022	mg/kg		<0.0022	mg/kg	<0.000000224 %		<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	dieldrin (ISO)				<0.0055 mg/kg		<0.0055 mg/kg	<0.00000559 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
42	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000224 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000224 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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				0.0123 mg/kg		0.0123 mg/kg	0.00000123 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0056 mg/kg		0.0056 mg/kg	0.00000056 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000112 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000112 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000224 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0269 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.0032%)

Classification of sample: 3G4023HP

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

Sample details

Sample name:	LoW Code:
3G4023HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				21.4 mg/kg	1.32	28.255 mg/kg	0.00283 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27.3 mg/kg	1.462	39.9 mg/kg	0.00399 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.3 mg/kg	1.923	0.577 mg/kg	0.0000577 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.9 mg/kg	1.126	10.02 mg/kg	0.001 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	23.2 mg/kg	1.56	36.188 mg/kg	0.00232 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				8.1 mg/kg	2.976	24.108 mg/kg	0.00241 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				34.2 mg/kg	2.774	94.876 mg/kg	0.00949 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				6.7 pH		6.7 pH	6.7 pH		
			PH							
13	phenol				<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							
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]		0.27 mg/kg		0.27 mg/kg	0.000027 %		
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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				42.4 mg/kg		42.4 mg/kg	0.00424 %		
37	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.022 mg/kg		<0.022 mg/kg	<0.0000022 %		<LOD
Total:								0.0277 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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: Too low concentrations for chromates to form.

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00005%)

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 3.2% to 34.8%, 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.: 0.00424%)

Classification of sample: 3G4024DS

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

Sample details

Sample name:	LoW Code:
3G4024DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **21.5% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				13.5 mg/kg	1.32	17.824 mg/kg	0.00178 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				42.4 mg/kg	1.462	61.97 mg/kg	0.0062 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2 mg/kg	1.923	2.308 mg/kg	0.000231 %			
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				9.3 mg/kg	1.126	10.471 mg/kg	0.00105 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	13.5 mg/kg	1.56	21.058 mg/kg	0.00135 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				8.6 mg/kg	2.976	25.596 mg/kg	0.00256 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				29.4 mg/kg	2.774	81.56 mg/kg	0.00816 %			
	024-007-00-3	236-878-9	13530-65-9								
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	 pH		PH		6.6 pH		6.6 pH	6.6 pH			
13	 phenol				<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]				0.34 mg/kg		0.34 mg/kg	0.000034 %		
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				<25.5 mg/kg		<25.5 mg/kg	<0.00255 %		<LOD
			TPH							
37	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:								0.0253 %		

Key

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

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

Classification of sample: 3G4024DS[2]

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

Sample details

Sample name:	LoW Code:	
3G4024DS[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.9 m		
Moisture content:		
17%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg		0.000396 %		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg		<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.2 mg/kg	1.462	17.831 mg/kg		0.00178 %		
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg		<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg		<0.0000703 %		<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				3.5 mg/kg	1.126	3.941 mg/kg		0.000394 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	5.3 mg/kg	1.56	8.267 mg/kg		0.00053 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg		<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				3.4 mg/kg	2.976	10.119 mg/kg		0.00101 %		
	028-035-00-7	238-766-5	14721-18-7								
10	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg		<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9								
11	asbestos				<10 mg/kg		<10 mg/kg		<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	pH				5 pH		5 pH		5pH		
			PH								
13	phenol				<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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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		<0.1 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				30.8 mg/kg		30.8 mg/kg	0.00308 %		
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:								0.013 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00308%)

Classification of sample: 3G4037DS

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

Sample details

Sample name:	LoW Code:
3G4037DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **11.4% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				10.7 mg/kg	1.32	14.127 mg/kg	0.00141 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.8 mg/kg	1.462	33.323 mg/kg	0.00333 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				10.1 mg/kg	1.126	11.371 mg/kg	0.00114 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	32 mg/kg	1.56	49.914 mg/kg	0.0032 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				9.8 mg/kg	2.976	29.167 mg/kg	0.00292 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				57 mg/kg	2.774	158.126 mg/kg	0.0158 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	 pH		PH		7.9 pH		7.9 pH	7.9 pH		
13	phenol				<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]		0.23 mg/kg		0.23 mg/kg	0.000023 %		
15	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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			0.12 mg/kg		0.12 mg/kg	0.000012 %		
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			0.51 mg/kg		0.51 mg/kg	0.000051 %		
26	pyrene 204-927-3	129-00-0			0.67 mg/kg		0.67 mg/kg	0.000067 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.19 mg/kg		0.19 mg/kg	0.000019 %		
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		0.52 mg/kg		0.52 mg/kg	0.000052 %		
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		0.46 mg/kg		0.46 mg/kg	0.000046 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.24 mg/kg		0.24 mg/kg	0.000024 %		
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			0.3 mg/kg		0.3 mg/kg	0.00003 %		
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				600 mg/kg		600 mg/kg	0.06 %		
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:								0.0894 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.06%)

Classification of sample: 3G4037DS[2]

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

Sample details

Sample name:	LoW Code:
3G4037DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.9 mg/kg	1.32	3.829 mg/kg	0.000383 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.6 mg/kg	1.462	14.031 mg/kg	0.0014 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				4.6 mg/kg	1.126	5.179 mg/kg	0.000518 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.2 mg/kg	1.56	8.111 mg/kg	0.00052 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				9.6 mg/kg	2.976	28.572 mg/kg	0.00286 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				23.5 mg/kg	2.774	65.192 mg/kg	0.00652 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				6.1 pH		6.1 pH	6.1 pH		
			PH							
13	phenol				<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]		0.21 mg/kg		0.21 mg/kg	0.000021 %		
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				40.3 mg/kg		40.3 mg/kg	0.00403 %		
37	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.022 mg/kg		<0.022 mg/kg	<0.0000022 %		<LOD
Total:								0.0176 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00403%)

Classification of sample: 3G4037DS[3]

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

Sample details

Sample name:	LoW Code:
3G4037DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				8.1 mg/kg	1.32	10.695 mg/kg	0.00107 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.1 mg/kg	1.462	27.916 mg/kg	0.00279 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				8.2 mg/kg	1.126	9.232 mg/kg	0.000923 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	8.6 mg/kg	1.56	13.414 mg/kg	0.00086 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				33.4 mg/kg	2.774	92.656 mg/kg	0.00927 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	 pH				6.9 pH		6.9 pH	6.9 pH		
			PH							
13	 phenol				<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]		0.21 mg/kg		0.21 mg/kg	0.000021 %		
15	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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		<0.1 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			0.57 mg/kg		0.57 mg/kg	0.000057 %		
24	anthracene 204-371-1	120-12-7			0.17 mg/kg		0.17 mg/kg	0.000017 %		
25	fluoranthene 205-912-4	206-44-0			1.26 mg/kg		1.26 mg/kg	0.000126 %		
26	pyrene 204-927-3	129-00-0			1.23 mg/kg		1.23 mg/kg	0.000123 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.49 mg/kg		0.49 mg/kg	0.000049 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.56 mg/kg		0.56 mg/kg	0.000056 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.82 mg/kg		0.82 mg/kg	0.000082 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.34 mg/kg		0.34 mg/kg	0.000034 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.62 mg/kg		0.62 mg/kg	0.000062 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.31 mg/kg		0.31 mg/kg	0.000031 %		
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			0.35 mg/kg		0.35 mg/kg	0.000035 %		
35	coronene 205-881-7	191-07-1			0.1 mg/kg		0.1 mg/kg	0.00001 %		
36	TPH (C6 to C40) petroleum group TPH				40.6 mg/kg		40.6 mg/kg	0.00406 %		
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:								0.0224 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00406%)

Classification of sample: 3G4038DS

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

Sample details

Sample name:	LoW Code:
3G4038DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12.4 mg/kg	1.32	16.372 mg/kg	0.00164 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18.7 mg/kg	1.462	27.331 mg/kg	0.00273 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	18 mg/kg	1.56	28.077 mg/kg	0.0018 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				4.2 mg/kg	2.976	12.5 mg/kg	0.00125 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				29.8 mg/kg	2.774	82.67 mg/kg	0.00827 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	asbestos				90 mg/kg		90 mg/kg	0.009 %		
	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							
13	pH				7.9 pH		7.9 pH	7.9 pH		

#	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	phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
15	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]								
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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]								
17	benzene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
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	TPH (C6 to C40) petroleum group				26.6 mg/kg		26.6 mg/kg	0.00266 %			
			TPH								
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.022 mg/kg		<0.022 mg/kg	<0.0000022 %			<LOD

Key

Supplementary Hazardous Property Information

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 3.2% to 34.8%, reducing the risk of flammability.

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00266%)

Classification of sample: 3G4038DS[2]

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

Sample details

Sample name:	LoW Code:
3G4038DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				8.5 mg/kg	1.32	11.223 mg/kg	0.00112 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.5 mg/kg	1.462	32.885 mg/kg	0.00329 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				11.7 mg/kg	1.126	13.173 mg/kg	0.00132 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	8.4 mg/kg	1.56	13.102 mg/kg	0.00084 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				3.4 mg/kg	2.976	10.119 mg/kg	0.00101 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				23.2 mg/kg	2.774	64.36 mg/kg	0.00644 %			
	024-007-00-3	236-878-9	13530-65-9								
11	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
12	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
13	 pH				7.9 pH		7.9 pH	7.9 pH			

#	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	phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
15	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]							
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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]							
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	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	TPH (C6 to C40) petroleum group				<23.7 mg/kg		<23.7 mg/kg	<0.00237 %		<LOD
			TPH							
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
Total:								0.0179 %		

Key

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

Classification of sample: 3G4038DS[3]

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

Sample details

Sample name:	LoW Code:
3G4038DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 19.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281 mg/kg	0.000528 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14.3 mg/kg	1.462	20.9 mg/kg	0.00209 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				11.7 mg/kg	1.126	13.173 mg/kg	0.00132 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	7.3 mg/kg	1.56	11.387 mg/kg	0.00073 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH				6 pH		6 pH	6pH		
12	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
13	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [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							
14	pentachlorophenol				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
15	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
19	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
20	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
21	fluorene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-695-5	86-73-7							
22	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
23	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
24	fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-912-4	206-44-0							
25	pyrene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		204-927-3	129-00-0							
26	benzo[a]anthracene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
		205-883-8	191-24-2							
34	coronene				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %		<LOD
		205-881-7	191-07-1							
35	TPH (C6 to C40) petroleum group				<24.8 mg/kg		<24.8 mg/kg	<0.00248 %		<LOD
			TPH							
36	hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-765-5	87-68-3							
37	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]							
38	2,6-dinitrotoluene				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
39	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
40	biphenyl; diphenyl				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-042-00-8	202-163-5	92-52-4							
41	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
42	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							
43	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							
44	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2							
45	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
46	di-n-octyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		204-214-7	117-84-0							
47	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							
48	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							
49	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							
50	hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
51	hexachloroethane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		200-666-4	67-72-1							
Total:								0.0127 %		

Key

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

Classification of sample: 3G4102SA

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

Sample details

Sample name:	LoW Code:
3G4102SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **18% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				9 mg/kg	1.32	11.883 mg/kg	0.00119 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				11.4 mg/kg	1.126	12.835 mg/kg	0.00128 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	28.3 mg/kg	1.56	44.143 mg/kg	0.00283 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				6.9 mg/kg	2.976	20.536 mg/kg	0.00205 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				42.8 mg/kg	2.774	118.733 mg/kg	0.0119 %			
	024-007-00-3	236-878-9	13530-65-9								
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	 pH		PH		7.4 pH		7.4 pH	7.4 pH			
13	 phenol				<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]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]							
		202-423-8 [2]	95-48-7 [2]							
		203-398-6 [3]	106-44-5 [3]							
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]							
		202-461-5 [2]	95-87-4 [2]							
		203-321-6 [3]	105-67-9 [3]							
		208-395-3 [4]	526-75-0 [4]							
		209-400-1 [5]	576-26-1 [5]							
		215-089-3 [6]	1300-71-6 [6]							
		276-245-4 [7]	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				<0.1 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				30.9 mg/kg		30.9 mg/kg	0.00309 %		
			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:								0.0263 %		

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 Determinand - 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 3.2% to 34.8%, 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.: 0.00309%)

Classification of sample: 3G4102SA[2]

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

Sample details

Sample name:	LoW Code:
3G4102SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				5.4 mg/kg	1.32	7.13 mg/kg	0.000713 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				13.1 mg/kg	1.126	14.749 mg/kg	0.00147 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	7.1 mg/kg	1.56	11.075 mg/kg	0.00071 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %			<LOD
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	pH		PH		7.7 pH		7.7 pH	7.7 pH			
12	TPH (C6 to C40) petroleum group		TPH		<24.2 mg/kg		<24.2 mg/kg	<0.00242 %			<LOD
Total:									0.0129 %		

Key

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

Classification of sample: 3G4102SA[3]

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

Sample details

Sample name:	LoW Code:
3G4102SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
18 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				12.8 mg/kg	1.126	14.411 mg/kg	0.00144 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	10.7 mg/kg	1.56	16.69 mg/kg	0.00107 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				55 mg/kg	2.774	152.578 mg/kg	0.0153 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.8 pH		7.8 pH	7.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		28.5 mg/kg		28.5 mg/kg	0.00285 %		
Total:								0.0256 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00285%)

Classification of sample: 3G4102SA[4]

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

Sample details

Sample name:	LoW Code:
3G4102SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
28%	
(no correction)	

Hazard properties

None identified

Determinands

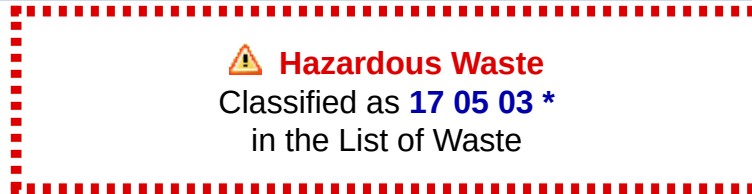
Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.1 mg/kg	1.32	2.773 mg/kg	0.000277 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.5 mg/kg	1.462	19.731 mg/kg	0.00197 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3.6 mg/kg	1.126	4.053 mg/kg	0.000405 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.5 mg/kg	1.56	8.579 mg/kg	0.00055 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		5.9 pH		5.9 pH	5.9 pH		
12	TPH (C6 to C40) petroleum group		TPH		<27.8 mg/kg		<27.8 mg/kg	<0.00278 %		<LOD
Total:								0.0108 %		

Key

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

Classification of sample: 3G4105SA



Sample details

Sample name:	LoW Code:	
3G4105SA	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1 m		
Moisture content:		
34.8%		
(no correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.192%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.192%)

Determinands

Moisture content: **34.8%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	8.714 mg/kg	0.000871 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				123 mg/kg	1.462	179.771 mg/kg	0.018 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				103.8 mg/kg	1.126	116.867 mg/kg	0.0117 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	64.6 mg/kg	1.56	100.764 mg/kg	0.00646 %		
	082-004-00-2	231-846-0	7758-97-6							

#	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								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				19.6 mg/kg	2.976	58.335 mg/kg	0.00583 %			
	028-035-00-7	238-766-5	14721-18-7								
10	zinc { zinc chromate }				314 mg/kg	2.774	871.082 mg/kg	0.0871 %			
	024-007-00-3	236-878-9	13530-65-9								
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	pH		PH		8.4 pH		8.4 pH	8.4 pH			
13	phenol				0.15 mg/kg		0.15 mg/kg	0.000015 %			
	604-001-00-2	203-632-7	108-95-2								
14	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-002-00-8	201-778-6	87-86-5								
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				0.37 mg/kg		0.37 mg/kg	0.000037 %			
	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]								
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.14 mg/kg		<0.14 mg/kg	<0.000014 %			<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]								
17	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	naphthalene				0.41 mg/kg		0.41 mg/kg	0.000041 %			
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
		205-917-1	208-96-8								
22	acenaphthene				0.53 mg/kg		0.53 mg/kg	0.000053 %			
		201-469-6	83-32-9								
23	fluorene				0.64 mg/kg		0.64 mg/kg	0.000064 %			
		201-695-5	86-73-7								
24	phenanthrene				4.48 mg/kg		4.48 mg/kg	0.000448 %			
		201-581-5	85-01-8								
25	anthracene				1.53 mg/kg		1.53 mg/kg	0.000153 %			
		204-371-1	120-12-7								
26	fluoranthene				8.12 mg/kg		8.12 mg/kg	0.000812 %			
		205-912-4	206-44-0								
27	pyrene				7.01 mg/kg		7.01 mg/kg	0.000701 %			
		204-927-3	129-00-0								
28	benzo[a]anthracene				3.44 mg/kg		3.44 mg/kg	0.000344 %			
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				3.2 mg/kg		3.2 mg/kg	0.00032 %			
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				4.37 mg/kg		4.37 mg/kg	0.000437 %			

#	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							
31	benzo[k]fluoranthene				1.87 mg/kg		1.87 mg/kg	0.000187 %		
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				3.89 mg/kg		3.89 mg/kg	0.000389 %		
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				2.02 mg/kg		2.02 mg/kg	0.000202 %		
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.56 mg/kg		0.56 mg/kg	0.000056 %		
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				2.23 mg/kg		2.23 mg/kg	0.000223 %		
		205-883-8	191-24-2							
36	coronene				0.64 mg/kg		0.64 mg/kg	0.000064 %		
		205-881-7	191-07-1							
37	TPH (C6 to C40) petroleum group				1920 mg/kg		1920 mg/kg	0.192 %		
			TPH							
38	1,2,4-trimethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
39	cumene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
40	styrene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
41	vinyl chloride; chloroethylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
42	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							
43	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]							
44	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							
45	2,2-dichloropropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		209-832-0	594-20-7							
46	bromochloromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-826-3	74-97-5							
47	chloroform; trichloromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
48	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							
49	carbon tetrachloride; tetrachloromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
50	1,1-dichloropropene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
51	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							
52	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							
53	dibromomethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
54	bromodichloromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-856-7	75-27-4							
55	trans-1,3-dichloropropene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		431-460-4	10061-02-6							
56	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]							
57	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							

#	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								
58	1,3-dichloropropane	205-531-3	142-28-9		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
59	dibromochloromethane	204-704-0	124-48-1		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
60	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
61	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
62	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
63	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
64	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
65	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
66	pentachlorobenzene	602-074-00-5	210-172-0	608-93-5	<0.0015 mg/kg		<0.0015 mg/kg	<0.000000153 %			<LOD
67	hexachlorobutadiene	201-765-5	87-68-3		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
68	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
69	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
70	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
71	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
72	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
73	aldrin (ISO)	602-048-00-3	206-215-8	309-00-2	<0.003 mg/kg		<0.003 mg/kg	<0.000000307 %			<LOD
74	dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1	<0.0076 mg/kg		<0.0076 mg/kg	<0.000000767 %			<LOD
75	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	613-068-00-7	217-617-8	1912-24-9	<0.003 mg/kg		<0.003 mg/kg	<0.000000307 %			<LOD
76	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.003 mg/kg		<0.003 mg/kg	<0.000000307 %			<LOD
77	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	0.0168 mg/kg		0.0168 mg/kg	0.00000168 %			
78	hexachlorocyclohexanes, including lindane	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1	0.0076 mg/kg		0.0076 mg/kg	0.000000767 %			
79	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane	602-043-00-6	200-401-2	58-89-9	<0.0015 mg/kg		<0.0015 mg/kg	<0.000000153 %			<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
81	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
82	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.0015 mg/kg		<0.0015 mg/kg	<0.000000153 %			<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							
83	1,2,4-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
84	hexachlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.000000307 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.328 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.192%)

Classification of sample: 3G4105SA[2]

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

Sample details

Sample name:	LoW Code:
3G4105SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
14.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
28.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 28.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	3.3 mg/kg	1.32	4.357 mg/kg	0.000436 %		
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		13.2 mg/kg	1.462	19.293 mg/kg	0.00193 %		
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	5.6 mg/kg	1.126	6.305 mg/kg	0.00063 %		
7	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	6.8 mg/kg	1.56	10.607 mg/kg	0.00068 %		
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	31.6 mg/kg	2.774	87.663 mg/kg	0.00877 %		
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		7.2 pH		7.2 pH	7.2 pH		
12	TPH (C6 to C40) petroleum group		TPH		<28 mg/kg		<28 mg/kg	<0.0028 %		<LOD
Total:								0.0157 %		

Key

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

Classification of sample: 3G4105SA[3]

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

Sample details

Sample name:	LoW Code:
3G4105SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **15.6% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				3.5 mg/kg	1.32	4.621 mg/kg	0.000462 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.4 mg/kg	1.462	23.97 mg/kg	0.0024 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				5.4 mg/kg	1.126	6.08 mg/kg	0.000608 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	7.4 mg/kg	1.56	11.543 mg/kg	0.00074 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				4.4 mg/kg	2.976	13.096 mg/kg	0.00131 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				18.7 mg/kg	2.774	51.877 mg/kg	0.00519 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4							
			132207-32-0							
			12172-73-5							
			77536-66-4							
			77536-68-6							
			77536-67-5							
			12001-29-5							
12	 pH				8 pH		8 pH	8pH		
			PH							
13	phenol				<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	pentachlorophenol										
	604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
15	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]		0.2 mg/kg		0.2 mg/kg	0.00002 %			
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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
17	benzene										
	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
18	toluene										
	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
19	ethylbenzene										
	601-023-00-4	202-849-4	100-41-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
20	naphthalene										
	601-052-00-2	202-049-5	91-20-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
21	acenaphthylene										
		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
22	acenaphthene										
		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
23	fluorene										
		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
24	phenanthrene										
		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
25	anthracene										
		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
26	fluoranthene										
		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
27	pyrene										
		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
28	benzo[a]anthracene										
	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
29	chrysene										
	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
30	benzo[b]fluoranthene										
	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
31	benzo[k]fluoranthene										
	601-036-00-5	205-916-6	207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
32	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
33	indeno[123-cd]pyrene										
		205-893-2	193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
34	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
35	benzo[ghi]perylene										
		205-883-8	191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
36	coronene										
		205-881-7	191-07-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
37	TPH (C6 to C40) petroleum group										
			TPH		<23.7 mg/kg		<23.7 mg/kg	<0.00237 %			<LOD
38	1,2,4-trimethylbenzene										
	601-043-00-3	202-436-9	95-63-6		<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							
39		cumene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-024-00-X	202-704-5	98-82-8							
40		styrene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-026-00-0	202-851-5	100-42-5							
41		vinyl chloride; chloroethylene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		602-023-00-7	200-831-0	75-01-4							
42		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							
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				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<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							

#	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							
66	pentachlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000118 %		<LOD
	602-074-00-5	210-172-0	608-93-5							
67	hexachlorobutadiene				<0.003 mg/kg		<0.003 mg/kg	<0.00000003 %		<LOD
		201-765-5	87-68-3							
68	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.00000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
69	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.00000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
70	chloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.00000003 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
71	chloromethane; methyl chloride				<0.004 mg/kg		<0.004 mg/kg	<0.00000004 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
72	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.00000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
73	aldrin (ISO)				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000237 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
74	dieldrin (ISO)				<0.0059 mg/kg		<0.0059 mg/kg	<0.000000592 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
75	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000237 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
76	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000237 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
77	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				0.013 mg/kg		0.013 mg/kg	0.00000013 %		
	602-052-00-5	204-079-4	115-29-7							
78	hexachlorocyclohexanes, including lindane				0.0059 mg/kg		0.0059 mg/kg	0.000000592 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
79	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000118 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
80	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.00000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
81	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.00000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
82	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000118 %		<LOD
		201-757-1	87-61-6							
83	1,2,4-trichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.00000004 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
84	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000237 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0145 %		

Key

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

Classification of sample: 3G4105SA[4]

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

Sample details

Sample name:	LoW Code:
3G4105SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **15.5% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				3.3 mg/kg	1.32	4.357 mg/kg	0.000436 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30.1 mg/kg	1.462	43.993 mg/kg	0.0044 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				11.2 mg/kg	1.126	12.61 mg/kg	0.00126 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	11.8 mg/kg	1.56	18.406 mg/kg	0.00118 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				81.1 mg/kg	2.774	224.983 mg/kg	0.0225 %		
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		7.6 pH		7.6 pH	7.6 pH		
12	 TPH (C6 to C40) petroleum group		TPH		32.7 mg/kg		32.7 mg/kg	0.00327 %		
Total:								0.0334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00327%)

Classification of sample: 3G4106SA

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

Sample details

Sample name:	LoW Code:
3G4106SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **16.9% No Moisture Correction applied (MC)**

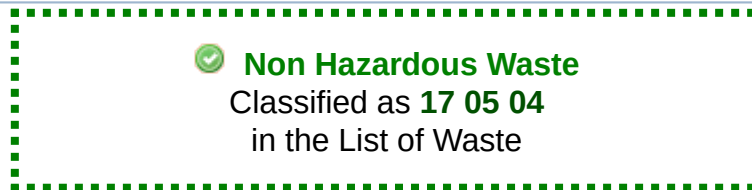
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				12.7 mg/kg	1.32	16.768 mg/kg	0.00168 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				39.5 mg/kg	1.462	57.731 mg/kg	0.00577 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				11.3 mg/kg	1.126	12.723 mg/kg	0.00127 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	12.2 mg/kg	1.56	19.03 mg/kg	0.00122 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				6.9 mg/kg	2.976	20.536 mg/kg	0.00205 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				21.4 mg/kg	2.774	59.367 mg/kg	0.00594 %			
	024-007-00-3	236-878-9	13530-65-9								
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	 pH		PH		8.1 pH		8.1 pH	8.1 pH			
13	 phenol				<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]	108-39-4 [1]							
		202-423-8 [2]	95-48-7 [2]							
		203-398-6 [3]	106-44-5 [3]							
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]							
		202-461-5 [2]	95-87-4 [2]							
		203-321-6 [3]	105-67-9 [3]							
		208-395-3 [4]	526-75-0 [4]							
		209-400-1 [5]	576-26-1 [5]							
		215-089-3 [6]	1300-71-6 [6]							
		276-245-4 [7]	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				<0.1 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				<24.1 mg/kg		<24.1 mg/kg	<0.00241 %		<LOD
			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:								0.0217 %		

Key

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

Classification of sample: 3G4106SA[2]



Sample details

Sample name:	LoW Code:
3G4106SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.8 mg/kg	1.32	7.658 mg/kg	0.000766 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.2 mg/kg	1.462	11.985 mg/kg	0.0012 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9.6 mg/kg	1.126	10.809 mg/kg	0.00108 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	16.8 mg/kg	1.56	26.205 mg/kg	0.00168 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				4.7 mg/kg	2.976	13.988 mg/kg	0.0014 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				65.8 mg/kg	2.774	182.539 mg/kg	0.0183 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				8.5 pH		8.5 pH	8.5 pH		
			PH							
13	phenol				<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							
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]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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				42.5 mg/kg		42.5 mg/kg	0.00425 %		
37	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.022 mg/kg		<0.022 mg/kg	<0.0000022 %		<LOD
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 Determinand - 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 3.2% to 34.8%, 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.: 0.00425%)

Classification of sample: 3G4106SA[3]

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

Sample details

Sample name:	LoW Code:
3G4106SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
25%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				1.8 mg/kg	1.32	2.377 mg/kg	0.000238 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11.1 mg/kg	1.462	16.223 mg/kg	0.00162 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				5.8 mg/kg	1.126	6.53 mg/kg	0.000653 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	6.3 mg/kg	1.56	9.827 mg/kg	0.00063 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				3.7 mg/kg	2.976	11.012 mg/kg	0.0011 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				18.8 mg/kg	2.774	52.154 mg/kg	0.00522 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	 pH				8.3 pH		8.3 pH	8.3 pH		
			PH							
13	 phenol				<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]	108-39-4 [1]							
		202-423-8 [2]	95-48-7 [2]							
		203-398-6 [3]	106-44-5 [3]							
15	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]							
		202-461-5 [2]	95-87-4 [2]							
		203-321-6 [3]	105-67-9 [3]							
		208-395-3 [4]	526-75-0 [4]							
		209-400-1 [5]	576-26-1 [5]							
		215-089-3 [6]	1300-71-6 [6]							
		276-245-4 [7]	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				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		201-581-5	85-01-8							
24	anthracene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		205-912-4	206-44-0							
26	pyrene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		204-927-3	129-00-0							
27	benzo[a]anthracene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	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							
32	indeno[123-cd]pyrene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		205-893-2	193-39-5							
33	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							
34	benzo[ghi]perylene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		205-883-8	191-24-2							
35	coronene				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		205-881-7	191-07-1							
36	TPH (C6 to C40) petroleum group				59.1 mg/kg		59.1 mg/kg	0.00591 %		
			TPH							
37	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.027 mg/kg		<0.027 mg/kg	<0.0000027 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0168 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00591%)

Classification of sample: 3G4106SA[4]

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

Sample details

Sample name:	LoW Code:
3G4106SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
9.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
28.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 28.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.7 mg/kg	1.32	4.885 mg/kg	0.000489 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.7 mg/kg	1.462	14.177 mg/kg	0.00142 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				5.5 mg/kg	1.126	6.192 mg/kg	0.000619 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	4.8 mg/kg	1.56	7.487 mg/kg	0.00048 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				18.2 mg/kg	2.774	50.489 mg/kg	0.00505 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8 pH		8 pH	8pH		
12	TPH (C6 to C40) petroleum group		TPH		45.7 mg/kg		45.7 mg/kg	0.00457 %		
Total:								0.013 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, reducing the risk of flammability.

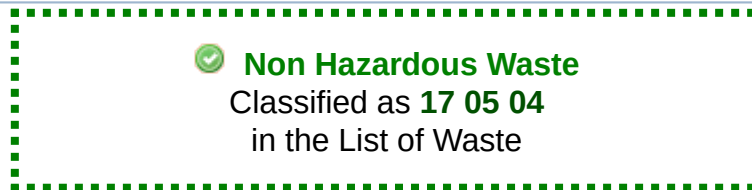
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00457%)

Classification of sample: 3G7525IT



Sample details

Sample name:	LoW Code:
3G7525IT	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.2 mg/kg	1.462	23.677 mg/kg	0.00237 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.3 mg/kg	1.923	0.577 mg/kg	0.0000577 %		
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9.1 mg/kg	1.126	10.246 mg/kg	0.00102 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	15.4 mg/kg	1.56	24.021 mg/kg	0.00154 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				7.6 mg/kg	2.976	22.62 mg/kg	0.00226 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				40 mg/kg	2.774	110.966 mg/kg	0.0111 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				7.3 pH		7.3 pH	7.3 pH		
			PH							
13	phenol				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<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	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]										
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.6 mg/kg		<0.6 mg/kg	<0.00006 %			<LOD
15	pentachlorophenol										
	604-002-00-8	201-778-6	87-86-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	monohydric phenols										
			P1186		<0.52 mg/kg		<0.52 mg/kg	<0.000052 %			<LOD
17	benzene										
	601-020-00-8	200-753-7	71-43-2		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
18	toluene										
	601-021-00-3	203-625-9	108-88-3		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
19	ethylbenzene										
	601-023-00-4	202-849-4	100-41-4		<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
20	naphthalene										
	601-052-00-2	202-049-5	91-20-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
21	acenaphthylene										
		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
22	acenaphthene										
		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
23	fluorene										
		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
24	phenanthrene										
		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
25	anthracene										
		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
26	fluoranthene										
		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
27	pyrene										
		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
28	benzo[a]anthracene										
	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
29	chrysene										
	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
30	benzo[b]fluoranthene										
	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
31	benzo[k]fluoranthene										
	601-036-00-5	205-916-6	207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
32	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
33	indeno[123-cd]pyrene										
		205-893-2	193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
34	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
35	benzo[ghi]perylene										
		205-883-8	191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
36	coronene										
		205-881-7	191-07-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
37	TPH (C6 to C40) petroleum group										
			TPH		<22.8 mg/kg		<22.8 mg/kg	<0.00228 %			<LOD
38	pentachlorobenzene										
	602-074-00-5	210-172-0	608-93-5		<0.0011 mg/kg		<0.0011 mg/kg	<0.00000114 %			<LOD
39	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
40	aldrin (ISO)										
	602-048-00-3	206-215-8	309-00-2		<0.0022 mg/kg		<0.0022 mg/kg	<0.00000228 %			<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	dieldrin (ISO)				<0.0056 mg/kg		<0.0056 mg/kg	<0.000000569 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
42	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0022 mg/kg		<0.0022 mg/kg	<0.000000228 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0022 mg/kg		<0.0022 mg/kg	<0.000000228 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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				0.0125 mg/kg		0.0125 mg/kg	0.00000125 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0057 mg/kg		0.0057 mg/kg	0.00000057 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000114 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000114 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0022 mg/kg		<0.0022 mg/kg	<0.000000228 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0237 %		

Key

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

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00005%)

Classification of sample: 3G7525IT[2]

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

Sample details

Sample name:	LoW Code:
3G7525IT[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	11 mg/kg	1.32	14.524 mg/kg	0.00145 %			
2	 cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		39.3 mg/kg	1.462	57.439 mg/kg	0.00574 %			
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 selenosulfide 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	7.7 mg/kg	1.126	8.669 mg/kg	0.000867 %			
7	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	11.7 mg/kg	1.56	18.25 mg/kg	0.00117 %			
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	9.2 mg/kg	2.976	27.382 mg/kg	0.00274 %			
10	 zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	28.1 mg/kg	2.774	77.954 mg/kg	0.0078 %			
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	 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	<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
13	 pH				7.2 pH		7.2 pH	7.2 pH			

#	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	phenol									
	604-001-00-2	203-632-7	108-95-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
15	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]		0.26 mg/kg		0.26 mg/kg	0.000026 %		
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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
17	benzene									
	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	toluene									
	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
20	naphthalene									
	601-052-00-2	202-049-5	91-20-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	acenaphthylene									
		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
22	acenaphthene									
		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
23	fluorene									
		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
24	phenanthrene									
		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
25	anthracene									
		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
26	fluoranthene									
		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
27	pyrene									
		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
28	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
29	chrysene									
	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
30	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
31	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
32	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
33	indeno[123-cd]pyrene									
		205-893-2	193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
34	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
35	benzo[ghi]perylene									
		205-883-8	191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
36	coronene									
		205-881-7	191-07-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
37	TPH (C6 to C40) petroleum group									
			TPH		<23.7 mg/kg		<23.7 mg/kg	<0.00237 %		<LOD
38	1,2,4-trimethylbenzene									
	601-043-00-3	202-436-9	95-63-6		<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							
39		cumene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-024-00-X	202-704-5	98-82-8							
40		styrene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-026-00-0	202-851-5	100-42-5							
41		vinyl chloride; chloroethylene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		602-023-00-7	200-831-0	75-01-4							
42		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							
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				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<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				<0.003	mg/kg	<0.003	mg/kg	<0.0000003 %	<LOD
		602-028-00-4	204-825-9	127-18-4							

#	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							
66	hexachlorobutadiene	201-765-5	87-68-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
67	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
68	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
70	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
71	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
75	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
Total:								0.0237 %		

Key

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

Classification of sample: 3G7530IT

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

Sample details

Sample name:	LoW Code:
3G7530IT	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **12.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				5.8 mg/kg	1.32	7.658 mg/kg	0.000766 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.7 mg/kg	1.462	24.408 mg/kg	0.00244 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.2 mg/kg	1.923	0.385 mg/kg	0.0000385 %		
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				4.6 mg/kg	1.126	5.179 mg/kg	0.000518 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	6.3 mg/kg	1.56	9.827 mg/kg	0.00063 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				17 mg/kg	2.774	47.16 mg/kg	0.00472 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { dicobalt trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	 asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
13	 pH				7.5 pH		7.5 pH	7.5 pH		

#	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	phenol									
	604-001-00-2	203-632-7	108-95-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
15	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]		0.31 mg/kg		0.31 mg/kg	0.000031 %		
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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
17	benzene									
	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	toluene									
	601-021-00-3	203-625-9	108-88-3		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
19	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
20	naphthalene									
	601-052-00-2	202-049-5	91-20-3		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
21	acenaphthylene									
		205-917-1	208-96-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
22	acenaphthene									
		201-469-6	83-32-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
23	fluorene									
		201-695-5	86-73-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
24	phenanthrene									
		201-581-5	85-01-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
25	anthracene									
		204-371-1	120-12-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
26	fluoranthene									
		205-912-4	206-44-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
27	pyrene									
		204-927-3	129-00-0		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
28	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
29	chrysene									
	601-048-00-0	205-923-4	218-01-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
30	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
31	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
32	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
33	indeno[123-cd]pyrene									
		205-893-2	193-39-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
34	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
35	benzo[ghi]perylene									
		205-883-8	191-24-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
36	coronene									
		205-881-7	191-07-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
37	TPH (C6 to C40) petroleum group									
			TPH		25.9 mg/kg		25.9 mg/kg	0.00259 %		
38	1,2,4-trimethylbenzene									
	601-043-00-3	202-436-9	95-63-6		<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							
39		cumene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-024-00-X	202-704-5	98-82-8							
40		styrene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		601-026-00-0	202-851-5	100-42-5							
41		vinyl chloride; chloroethylene				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<LOD
		602-023-00-7	200-831-0	75-01-4							
42		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							
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				<0.001	mg/kg	<0.001	mg/kg	<0.0000001 %	<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				<0.003	mg/kg	<0.003	mg/kg	<0.0000003 %	<LOD
		602-028-00-4	204-825-9	127-18-4							

#	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							
66	hexachlorobutadiene	201-765-5	87-68-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
67	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
68	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
70	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
71	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
75	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
Total:								0.0147 %		

Key

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

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 3.2% to 34.8%, 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.: 0.00259%)

Classification of sample: 3G7530IT[2]

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

Sample details

Sample name:	LoW Code:
3G7530IT[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }				11.4 mg/kg	1.32	15.052 mg/kg	0.00151 %			
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.5 mg/kg	1.462	34.347 mg/kg	0.00343 %			
		215-160-9	1308-38-9								
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.6 mg/kg	1.923	1.154 mg/kg	0.000115 %			
	024-001-00-0	215-607-8	1333-82-0								
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	 copper { dicopper oxide; copper (I) oxide }				12.8 mg/kg	1.126	14.411 mg/kg	0.00144 %			
	029-002-00-X	215-270-7	1317-39-1								
7	 lead { lead chromate }			1	7.4 mg/kg	1.56	11.543 mg/kg	0.00074 %			
	082-004-00-2	231-846-0	7758-97-6								
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	 nickel { nickel chromate }				6.4 mg/kg	2.976	19.048 mg/kg	0.0019 %			
	028-035-00-7	238-766-5	14721-18-7								
10	 zinc { zinc chromate }				28.3 mg/kg	2.774	78.508 mg/kg	0.00785 %			
	024-007-00-3	236-878-9	13530-65-9								
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	 pH				7.4 pH		7.4 pH	7.4 pH			
			PH								
13	phenol				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<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	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<LOD
15	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
16	monohydric phenols P1186				<0.54	mg/kg		<0.54	mg/kg	<0.000054 %		<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
21	acenaphthylene 205-917-1	208-96-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
22	acenaphthene 201-469-6	83-32-9			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
23	fluorene 201-695-5	86-73-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
24	phenanthrene 201-581-5	85-01-8			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	anthracene 204-371-1	120-12-7			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
26	fluoranthene 205-912-4	206-44-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	pyrene 204-927-3	129-00-0			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
32	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
33	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
34	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
35	benzo[ghi]perylene 205-883-8	191-24-2			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
36	coronene 205-881-7	191-07-1			<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
37	TPH (C6 to C40) petroleum group TPH				24.9	mg/kg		24.9	mg/kg	0.00249 %		
38	pentachlorobenzene 602-074-00-5	210-172-0	608-93-5		<0.0011	mg/kg		<0.0011	mg/kg	<0.000000118 %		<LOD
39	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
40	aldrin (ISO) 602-048-00-3	206-215-8	309-00-2		<0.0023	mg/kg		<0.0023	mg/kg	<0.000000236 %		<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	dieldrin (ISO)				<0.0059 mg/kg		<0.0059 mg/kg	<0.00000059 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
42	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000236 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000236 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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				0.013 mg/kg		0.013 mg/kg	0.00000013 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0059 mg/kg		0.0059 mg/kg	0.00000059 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000118 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000118 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000236 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0209 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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: Too low concentrations for chromates to form.

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00011%)

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 3.2% to 34.8%, 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.: 0.00249%)

Classification of sample: 3W8526HP

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

Sample details

Sample name:	LoW Code:
3W8526HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10.4 mg/kg	1.32	13.731 mg/kg	0.00137 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.7 mg/kg	1.462	34.639 mg/kg	0.00346 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				7.2 mg/kg	1.126	8.106 mg/kg	0.000811 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	15.2 mg/kg	1.56	23.709 mg/kg	0.00152 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	zinc { zinc chromate }				35 mg/kg	2.774	97.095 mg/kg	0.00971 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	pH		PH		8.2 pH		8.2 pH	8.2 pH			
12	TPH (C6 to C40) petroleum group		TPH		109 mg/kg		109 mg/kg	0.0109 %			
Total:									0.0281 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.0109%)

Classification of sample: 3W8526HP[2]

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

Sample details

Sample name:	LoW Code:
3W8526HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.95 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				41.8 mg/kg	1.462	61.093 mg/kg	0.00611 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				11.8 mg/kg	1.126	13.285 mg/kg	0.00133 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	12.9 mg/kg	1.56	20.122 mg/kg	0.00129 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				42.4 mg/kg	2.774	117.624 mg/kg	0.0118 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.9 pH		7.9 pH	7.9 pH		
12	TPH (C6 to C40) petroleum group		TPH		37.1 mg/kg		37.1 mg/kg	0.00371 %		
Total:								0.0265 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00371%)

Classification of sample: 3W8528HP

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

Sample details

Sample name:	LoW Code:
3W8528HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				23.3 mg/kg	1.32	30.764 mg/kg	0.00308 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				39.1 mg/kg	1.462	57.147 mg/kg	0.00571 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				19.7 mg/kg	1.126	22.18 mg/kg	0.00222 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	13.9 mg/kg	1.56	21.681 mg/kg	0.00139 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				69.1 mg/kg	2.774	191.694 mg/kg	0.0192 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.8 pH		7.8 pH	7.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		<22.2 mg/kg		<22.2 mg/kg	<0.00222 %		<LOD
Total:								0.0341 %		

Key

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

Classification of sample: 3W8528HP[2]

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

Sample details

Sample name:	LoW Code:
3W8528HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.8 mg/kg	1.32	3.697 mg/kg	0.00037 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.2 mg/kg	1.462	22.216 mg/kg	0.00222 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				4.1 mg/kg	1.126	4.616 mg/kg	0.000462 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	3.1 mg/kg	1.56	4.835 mg/kg	0.00031 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.7 pH		7.7 pH	7.7 pH		
12	TPH (C6 to C40) petroleum group		TPH		55 mg/kg		55 mg/kg	0.0055 %		
Total:								0.0136 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.0055%)

Classification of sample: 3W8529SA

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

Sample details

Sample name:	LoW Code:
3W8529SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.2 mg/kg	1.32	2.905 mg/kg	0.00029 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.5 mg/kg	1.462	10.962 mg/kg	0.0011 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				5.2 mg/kg	1.126	5.855 mg/kg	0.000585 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.4 mg/kg	1.56	8.423 mg/kg	0.00054 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.9 pH		7.9 pH	7.9 pH		
12	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
13	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							

#	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							
16	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	chrysene	601-048-00-0	205-923-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	TPH (C6 to C40) petroleum group		TPH		24.1 mg/kg		24.1 mg/kg	0.00241 %		
Total:								0.00988 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00241%)

Classification of sample: 3W8529SA[2]

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

Sample details

Sample name:	LoW Code:
3W8529SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
26.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 26.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.4 mg/kg	1.32	8.45 mg/kg	0.000845 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.8 mg/kg	1.462	26.016 mg/kg	0.0026 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				15.1 mg/kg	1.126	17.001 mg/kg	0.0017 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	23.3 mg/kg	1.56	36.344 mg/kg	0.00233 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				52.7 mg/kg	2.774	146.198 mg/kg	0.0146 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.1 pH		7.1 pH	7.1 pH		
12	TPH (C6 to C40) petroleum group		TPH		31.6 mg/kg		31.6 mg/kg	0.00316 %		
Total:								0.0256 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00316%)

Classification of sample: 3W8529SA[3]

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

Sample details

Sample name:	LoW Code:
3W8529SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
5.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.9 mg/kg	1.32	11.751 mg/kg	0.00118 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.5 mg/kg	1.462	18.269 mg/kg	0.00183 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				6.9 mg/kg	1.126	7.769 mg/kg	0.000777 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.9 mg/kg	1.56	9.203 mg/kg	0.00059 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				25.2 mg/kg	2.774	69.908 mg/kg	0.00699 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.2 pH		7.2 pH	7.2 pH		
12	TPH (C6 to C40) petroleum group		TPH		<23 mg/kg		<23 mg/kg	<0.0023 %		<LOD
Total:								0.014 %		

Key

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

Classification of sample: 3W8530SA

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

Sample details

Sample name:	LoW Code:
3W8530SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.7 mg/kg	1.32	12.807 mg/kg	0.00128 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27.3 mg/kg	1.462	39.9 mg/kg	0.00399 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	1.405	0.703 mg/kg	0.0000703 %		
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				11.1 mg/kg	1.126	12.497 mg/kg	0.00125 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	13.7 mg/kg	1.56	21.369 mg/kg	0.00137 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				50.4 mg/kg	2.774	139.817 mg/kg	0.014 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		6.9 pH		6.9 pH	6.9 pH		
12	TPH (C6 to C40) petroleum group		TPH		<24.2 mg/kg		<24.2 mg/kg	<0.00242 %		<LOD
Total:								0.0246 %		

Key

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

Classification of sample: 3W8530SA[2]

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

Sample details

Sample name:	LoW Code:
3W8530SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				8.8 mg/kg	1.32	11.619 mg/kg	0.00116 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25.8 mg/kg	1.462	37.708 mg/kg	0.00377 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6 mg/kg	1.405	0.843 mg/kg	0.0000843 %			
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				10.9 mg/kg	1.126	12.272 mg/kg	0.00123 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	11.1 mg/kg	1.56	17.314 mg/kg	0.00111 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	zinc { zinc chromate }				50.5 mg/kg	2.774	140.094 mg/kg	0.014 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	pH		PH		6.9 pH		6.9 pH	6.9 pH			
12	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
13	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
14	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
15	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								

#	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							
16	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	chrysene	601-048-00-0	205-923-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	TPH (C6 to C40) petroleum group		TPH		<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<LOD
Total:								0.0242 %		

Key

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

Classification of sample: 3W8530SA[3]

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

Sample details

Sample name:	LoW Code:
3W8530SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10.4 mg/kg	1.32	13.731 mg/kg	0.00137 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.5 mg/kg	1.462	31.423 mg/kg	0.00314 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.8 mg/kg	1.405	1.124 mg/kg	0.000112 %			
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				12.5 mg/kg	1.126	14.074 mg/kg	0.00141 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	10.6 mg/kg	1.56	16.534 mg/kg	0.00106 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	zinc { zinc chromate }				52.9 mg/kg	2.774	146.752 mg/kg	0.0147 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	pH				6.1 pH		6.1 pH	6.1 pH			
12	benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
13	toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
14	ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
15	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								

#	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							
16	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	chrysene	601-048-00-0	205-923-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	TPH (C6 to C40) petroleum group		TPH		<25.3 mg/kg		<25.3 mg/kg	<0.00253 %		<LOD
Total:								0.0247 %		

Key

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

Classification of sample: 3W8530SA[4]

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

Sample details

Sample name:	LoW Code:
3W8530SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
23.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 23.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.6 mg/kg	1.32	3.433 mg/kg	0.000343 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.1 mg/kg	1.462	19.146 mg/kg	0.00191 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9 mg/kg	1.126	10.133 mg/kg	0.00101 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	4 mg/kg	1.56	6.239 mg/kg	0.0004 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				27.8 mg/kg	2.774	77.121 mg/kg	0.00771 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7 pH		7 pH	7pH		
12	TPH (C6 to C40) petroleum group		TPH		<26.1 mg/kg		<26.1 mg/kg	<0.00261 %		<LOD
Total:								0.0143 %		

Key

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

Classification of sample: 3W8531HP

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

Sample details

Sample name:	LoW Code:
3W8531HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				7.9 mg/kg	1.32	10.431 mg/kg	0.00104 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				7.8 mg/kg	1.126	8.782 mg/kg	0.000878 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	18.8 mg/kg	1.56	29.325 mg/kg	0.00188 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	zinc { zinc chromate }				38.2 mg/kg	2.774	105.972 mg/kg	0.0106 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %			
	005-008-00-8	215-125-8	1303-86-2								
11	pH		PH		6.1 pH		6.1 pH	6.1 pH			
12	TPH (C6 to C40) petroleum group		TPH		<24.1 mg/kg		<24.1 mg/kg	<0.00241 %			<LOD
Total:									0.0197 %		

Key

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

Classification of sample: 3W8531HP[2]

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

Sample details

Sample name:	LoW Code:
3W8531HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.8 mg/kg	1.32	12.939 mg/kg	0.00129 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8 mg/kg	1.126	9.007 mg/kg	0.000901 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	12 mg/kg	1.56	18.718 mg/kg	0.0012 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				37.1 mg/kg	2.774	102.921 mg/kg	0.0103 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		6.5 pH		6.5 pH	6.5 pH		
12	TPH (C6 to C40) petroleum group		TPH		<25.8 mg/kg		<25.8 mg/kg	<0.00258 %		<LOD
Total:								0.0208 %		

Key

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

Classification of sample: 3W8532HP

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

Sample details

Sample name:	LoW Code:
3W8532HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.4 mg/kg	1.32	3.169 mg/kg	0.000317 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.5 mg/kg	1.462	19.731 mg/kg	0.00197 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3.4 mg/kg	1.126	3.828 mg/kg	0.000383 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	10.1 mg/kg	1.56	15.754 mg/kg	0.00101 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				20.9 mg/kg	2.774	57.98 mg/kg	0.0058 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.5 pH		7.5 pH	7.5 pH		
12	TPH (C6 to C40) petroleum group		TPH		58.5 mg/kg		58.5 mg/kg	0.00585 %		
Total:								0.0157 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00585%)

Classification of sample: 3W8532HP[2]

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

Sample details

Sample name:	LoW Code:
3W8532HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.9 mg/kg	1.32	5.149 mg/kg	0.000515 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.2 mg/kg	1.462	29.523 mg/kg	0.00295 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.3 mg/kg	1.126	9.345 mg/kg	0.000934 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	4.8 mg/kg	1.56	7.487 mg/kg	0.00048 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.7 pH		7.7 pH	7.7 pH		
12	TPH (C6 to C40) petroleum group		TPH		<23.2 mg/kg		<23.2 mg/kg	<0.00232 %		<LOD
Total:								0.012 %		

Key

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

Classification of sample: 3W8534DS

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

Sample details

Sample name:	LoW Code:
3W8534DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.3 mg/kg	1.32	10.959 mg/kg	0.0011 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.7 mg/kg	1.462	24.408 mg/kg	0.00244 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				7.2 mg/kg	1.126	8.106 mg/kg	0.000811 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	29 mg/kg	1.56	45.235 mg/kg	0.0029 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				5.9 mg/kg	2.976	17.56 mg/kg	0.00176 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				42.1 mg/kg	2.774	116.792 mg/kg	0.0117 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8.5 pH		8.5 pH	8.5 pH		
15	phenol		PH		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				0.25 mg/kg		0.25 mg/kg	0.000025 %		
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				0.13 mg/kg		0.13 mg/kg	0.000013 %		
		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				0.34 mg/kg		0.34 mg/kg	0.000034 %		
		205-912-4	206-44-0							
28	pyrene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
	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

#	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				69.6 mg/kg		69.6 mg/kg	0.00696 %		
			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:								0.0294 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00696%)

Classification of sample: 3W8534DS[2]

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

Sample details

Sample name:	LoW Code:
3W8534DS[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 3.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				1.5 mg/kg	1.32	1.98 mg/kg	0.000198 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4.8 mg/kg	1.462	7.015 mg/kg	0.000702 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3 mg/kg	1.923	<0.577 mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				<1.6 mg/kg	1.126	<1.801 mg/kg	<0.00018 %		<LOD
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	2.9 mg/kg	1.56	4.523 mg/kg	0.00029 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				2.8 mg/kg	2.976	8.334 mg/kg	0.000833 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				24.3 mg/kg	2.774	67.412 mg/kg	0.00674 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

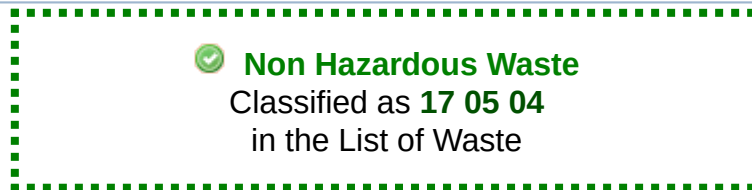
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
			77536-66-4 77536-68-6 77536-67-5 12001-29-5								
14	• pH		PH		8.1 pH		8.1 pH	8.1 pH			
15	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<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 %			
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
19	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
20	• ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
21	naphthalene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	• acenaphthylene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-917-1	208-96-8								
23	• acenaphthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-469-6	83-32-9								
24	• fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
25	• phenanthrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-581-5	85-01-8								
26	• anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		204-371-1	120-12-7								
27	• fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
28	• pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	• indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	• benzo[ghi]perylene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-883-8	191-24-2								
37	• coronene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<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					<20.7 mg/kg		<20.7 mg/kg	<0.00207 %		<LOD
				TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane					<0.021 mg/kg		<0.021 mg/kg	<0.0000021 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
Total:									0.0127 %		

Key

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

Classification of sample: 3W8534DS[3]



Sample details

Sample name:	LoW Code:
3W8534DS[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.8 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 4.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.7 mg/kg	1.32	4.885 mg/kg	0.000489 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10.3 mg/kg	1.462	15.054 mg/kg	0.00151 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3.9 mg/kg	1.126	4.391 mg/kg	0.000439 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.9 mg/kg	1.56	9.203 mg/kg	0.00059 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				3.3 mg/kg	2.976	9.822 mg/kg	0.000982 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8 pH		8 pH	8pH		
15	phenol		PH		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-001-00-2	203-632-7	108-95-2						
					0.19 mg/kg		0.19 mg/kg	0.000019 %		
17	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	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]						
					<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	benzene	601-020-00-8	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]						
					<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<LOD
19	toluene	601-021-00-3	200-753-7	71-43-2						
					<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<LOD
20	ethylbenzene	601-023-00-4	203-625-9	108-88-3						
					<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %		<LOD
21	naphthalene	601-052-00-2	202-849-4	100-41-4						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
22	acenaphthylene	205-917-1	202-049-5	91-20-3						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
23	acenaphthene	201-469-6	83-32-9							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
24	fluorene	201-695-5	86-73-7							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
25	phenanthrene	201-581-5	85-01-8							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
26	anthracene	204-371-1	120-12-7							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
27	fluoranthene	205-912-4	206-44-0							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
28	pyrene	204-927-3	129-00-0							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
29	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
30	chrysene	601-048-00-0	205-923-4	218-01-9						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
31	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
32	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
34	indeno[123-cd]pyrene	205-893-2	193-39-5							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
35	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3						
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
36	benzo[ghi]perylene	205-883-8	191-24-2							
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
37	coronene									
					<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<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				24.1 mg/kg		24.1 mg/kg	0.00241 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.021 mg/kg		<0.021 mg/kg	<0.0000021 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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 Determinand - 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 3.2% to 34.8%, 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.: 0.00241%)

Classification of sample: 3W8535SA

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

Sample details

Sample name:	LoW Code:
3W8535SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5.6 mg/kg	1.32	7.394 mg/kg	0.000739 %		
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		15.6 mg/kg	1.462	22.8 mg/kg	0.00228 %		
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 selenide 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	8.6 mg/kg	1.126	9.683 mg/kg	0.000968 %		
7	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	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	 zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	37.6 mg/kg	2.774	104.308 mg/kg	0.0104 %		
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		29.4 mg/kg		29.4 mg/kg	0.00294 %		
Total:								0.0192 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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: Too low concentrations for chromates to form.

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 3.2% to 34.8%, 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.: 0.00294%)

Classification of sample: 3W8535SA[2]

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

Sample details

Sample name:	LoW Code:
3W8535SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
12.9 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **21.1% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.3 mg/kg	1.462	38.439 mg/kg	0.00384 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				11.5 mg/kg	1.126	12.948 mg/kg	0.00129 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	9.2 mg/kg	1.56	14.35 mg/kg	0.00092 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				64.8 mg/kg	2.774	179.765 mg/kg	0.018 %		
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				2.3 mg/kg	3.22	7.406 mg/kg	0.000741 %		
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		8.2 pH		8.2 pH	8.2 pH		
12	 TPH (C6 to C40) petroleum group		TPH		90.2 mg/kg		90.2 mg/kg	0.00902 %		
Total:								0.0351 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00902%)

Classification of sample: 3W8535SA[3]

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

Sample details

Sample name:	LoW Code:
3W8535SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	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	<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		31.3 mg/kg	1.462	45.747 mg/kg	0.00457 %		
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	12.1 mg/kg	1.126	13.623 mg/kg	0.00136 %		
7	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	9.3 mg/kg	1.56	14.506 mg/kg	0.00093 %		
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	59.6 mg/kg	2.774	165.339 mg/kg	0.0165 %		
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 pH		7 pH	7pH		
12	TPH (C6 to C40) petroleum group		TPH		<25.7 mg/kg		<25.7 mg/kg	<0.00257 %		<LOD
Total:								0.0272 %		

Key

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

Classification of sample: 3W8535SA[4]

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

Sample details

Sample name:	LoW Code:
3W8535SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **16.7% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				29.2 mg/kg	1.462	42.677 mg/kg	0.00427 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				13.8 mg/kg	1.126	15.537 mg/kg	0.00155 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	8.1 mg/kg	1.56	12.635 mg/kg	0.00081 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				39 mg/kg	2.774	108.192 mg/kg	0.0108 %		
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		7.3 pH		7.3 pH	7.3 pH		
12	 TPH (C6 to C40) petroleum group		TPH		25.5 mg/kg		25.5 mg/kg	0.00255 %		
Total:								0.0227 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00255%)

Classification of sample: 3W8536SA

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

Sample details

Sample name:	LoW Code:
3W8536SA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				7.9 mg/kg	1.32	10.431 mg/kg	0.00104 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.7 mg/kg	1.462	33.177 mg/kg	0.00332 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				14.1 mg/kg	1.126	15.875 mg/kg	0.00159 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	32.1 mg/kg	1.56	50.07 mg/kg	0.00321 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				15.8 mg/kg	2.976	47.025 mg/kg	0.0047 %			
	028-035-00-7	238-766-5	14721-18-7								
10	zinc { zinc chromate }				47.8 mg/kg	2.774	132.604 mg/kg	0.0133 %			
	024-007-00-3	236-878-9	13530-65-9								
11	boron { diboron trioxide }				0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %			
	005-008-00-8	215-125-8	1303-86-2								
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 }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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				<0.11 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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		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 %		
	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

#	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				55.2 mg/kg		55.2 mg/kg	0.00552 %		
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:								0.0343 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, reducing the risk of flammability.

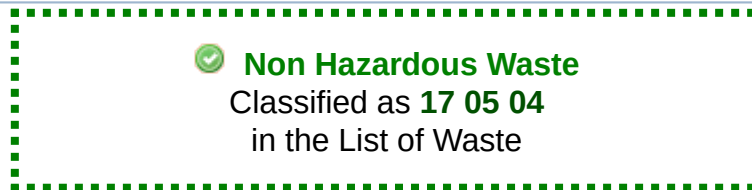
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00552%)

Classification of sample: 3W8536SA[2]



Sample details

Sample name:	LoW Code:
3W8536SA[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.8 mg/kg	1.32	3.697 mg/kg	0.00037 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.5 mg/kg	1.462	13.885 mg/kg	0.00139 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3.5 mg/kg	1.126	3.941 mg/kg	0.000394 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	6.9 mg/kg	1.56	10.763 mg/kg	0.00069 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				9.2 mg/kg	2.976	27.382 mg/kg	0.00274 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				31.2 mg/kg	2.774	86.553 mg/kg	0.00866 %		
	024-007-00-3	236-878-9	13530-65-9							
11	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				7.9 pH		7.9 pH	7.9 pH		
15	phenol		PH		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
17	pentachlorophenol				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
18	monohydric phenols		P1186		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
19	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
20	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
21	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
22	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
23	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
24	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
25	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
26	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-581-5	85-01-8							
27	anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-371-1	120-12-7							
28	fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-912-4	206-44-0							
29	pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-927-3	129-00-0							
30	benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
31	chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
32	benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
33	benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
34	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							
35	indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-893-2	193-39-5							
36	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							
37	benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-883-8	191-24-2							
38	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							
39	TPH (C6 to C40) petroleum group				36.2 mg/kg		36.2 mg/kg	0.00362 %		
			TPH							

#	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							
40	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
41	cumene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
42	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
43	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
44	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							
45	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]							
46	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							
47	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
48	bromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-826-3	74-97-5							
49	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
50	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							
51	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
52	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
53	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							
54	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							
55	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
56	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
57	trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		431-460-4	10061-02-6							
58	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]							
59	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							
60	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
61	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
62	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
63	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
64	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							
65	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		211-135-1	630-20-6							
66	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							

#		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							
67		tetrachloroethylene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		602-028-00-4	204-825-9	127-18-4							
68		pentachlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.000000108 %		<LOD
		602-074-00-5	210-172-0	608-93-5							
69	■	hexachlorobutadiene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
			201-765-5	87-68-3							
70		bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1							
71		bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2							
72		chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		602-009-00-0	200-830-5	75-00-3							
73		chloromethane; methyl chloride				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		602-001-00-7	200-817-4	74-87-3							
74		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
75		aldrin (ISO)				<0.0021 mg/kg		<0.0021 mg/kg	<0.000000216 %		<LOD
		602-048-00-3	206-215-8	309-00-2							
76		dieldrin (ISO)				<0.0053 mg/kg		<0.0053 mg/kg	<0.000000539 %		<LOD
		602-049-00-9	200-484-5	60-57-1							
77		dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0021 mg/kg		<0.0021 mg/kg	<0.000000216 %		<LOD
		015-019-00-X	200-547-7	62-73-7							
78		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				0.0119 mg/kg		0.0119 mg/kg	0.00000119 %		
		602-052-00-5	204-079-4	115-29-7							
79		hexachlorocyclohexanes, including lindane				0.0054 mg/kg		0.0054 mg/kg	0.00000054 %		
		602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
80		lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.001 mg/kg		<0.001 mg/kg	<0.000000108 %		<LOD
		602-043-00-6	200-401-2	58-89-9							
81		1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
82		1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
83	■	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.000000108 %		<LOD
			201-757-1	87-61-6							
84		1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		602-087-00-6	204-428-0	120-82-1							
85		hexachlorobenzene				<0.0021 mg/kg		<0.0021 mg/kg	<0.000000216 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
Total:									0.0195 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00362%)

Classification of sample: 3W8536SA[3]

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

Sample details

Sample name:	LoW Code:
3W8536SA[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.7 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.9 mg/kg	1.462	33.47 mg/kg	0.00335 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				12.4 mg/kg	1.126	13.961 mg/kg	0.0014 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	52.1 mg/kg	1.56	81.266 mg/kg	0.00521 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				15.3 mg/kg	2.976	45.537 mg/kg	0.00455 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				44.7 mg/kg	2.774	124.004 mg/kg	0.0124 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			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				<0.11 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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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

#	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				44.4 mg/kg		44.4 mg/kg	0.00444 %		
			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:								0.0344 %		

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 Determinand - 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 3.2% to 34.8%, reducing the risk of flammability.

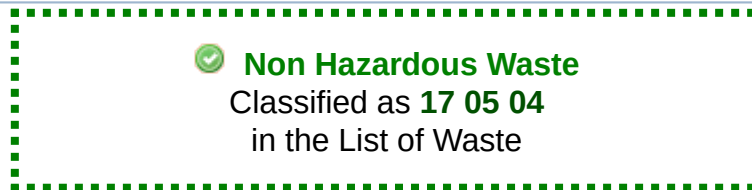
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00444%)

Classification of sample: 3W8536SA[4]



Sample details

Sample name:	LoW Code:
3W8536SA[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.9 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
24.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 24.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.4 mg/kg	1.32	3.169 mg/kg	0.000317 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.3 mg/kg	1.462	17.977 mg/kg	0.0018 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3.6 mg/kg	1.126	4.053 mg/kg	0.000405 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	3.7 mg/kg	1.56	5.771 mg/kg	0.00037 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				10.1 mg/kg	2.976	30.06 mg/kg	0.00301 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				35.2 mg/kg	2.774	97.65 mg/kg	0.00976 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				7.7 pH		7.7 pH	7.7 pH		
15	phenol		PH		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				0.12 mg/kg		0.12 mg/kg	0.000012 %		
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				<0.11 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

#	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				<26.4 mg/kg		<26.4 mg/kg	<0.00264 %		<LOD
			TPH							
39	pentachlorobenzene				<0.0013 mg/kg		<0.0013 mg/kg	<0.000000132 %		<LOD
	602-074-00-5	210-172-0	608-93-5							
40	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.026 mg/kg		<0.026 mg/kg	<0.00000026 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
41	aldrin (ISO)				<0.0026 mg/kg		<0.0026 mg/kg	<0.000000264 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
42	dieldrin (ISO)				<0.0065 mg/kg		<0.0065 mg/kg	<0.000000659 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0026 mg/kg		<0.0026 mg/kg	<0.000000264 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0066 mg/kg		0.0066 mg/kg	0.00000066 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0013 mg/kg		<0.0013 mg/kg	<0.000000132 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0013 mg/kg		<0.0013 mg/kg	<0.000000132 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0026 mg/kg		<0.0026 mg/kg	<0.000000264 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.02 %		

Key

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

Classification of sample: 3W8536SA[5]

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

Sample details

Sample name:	LoW Code:
3W8536SA[5]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
7 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				6.7 mg/kg	1.126	7.543 mg/kg	0.000754 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	8.1 mg/kg	1.56	12.635 mg/kg	0.00081 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 nickel { nickel chromate }				14.9 mg/kg	2.976	44.346 mg/kg	0.00443 %		
	028-035-00-7	238-766-5	14721-18-7							
10	 zinc { zinc chromate }				31.8 mg/kg	2.774	88.218 mg/kg	0.00882 %		
	024-007-00-3	236-878-9	13530-65-9							
11	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	• pH				8 pH		8 pH	8pH		
15	phenol		PH		<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]				0.21 mg/kg		0.21 mg/kg	0.000021 %		
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				<0.09 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

#	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				34 mg/kg		34 mg/kg	0.0034 %		
			TPH							
39	pentachlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000118 %		<LOD
	602-074-00-5	210-172-0	608-93-5							
40	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							
41	aldrin (ISO)				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000237 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
42	dieldrin (ISO)				<0.0059 mg/kg		<0.0059 mg/kg	<0.00000592 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
43	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000237 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
44	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				0.013 mg/kg		0.013 mg/kg	0.0000013 %		
	602-052-00-5	204-079-4	115-29-7							
45	hexachlorocyclohexanes, including lindane				0.0059 mg/kg		0.0059 mg/kg	0.00000592 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
46	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000118 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
47	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000118 %		<LOD
		201-757-1	87-61-6							
48	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000237 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0232 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.0034%)

Classification of sample: 3W8538HP

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

Sample details

Sample name:	LoW Code:
3W8538HP	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				5.4 mg/kg	1.32	7.13 mg/kg	0.000713 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18.3 mg/kg	1.462	26.746 mg/kg	0.00267 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				72.8 mg/kg	1.126	81.965 mg/kg	0.0082 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	21.5 mg/kg	1.56	33.536 mg/kg	0.00215 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				15.3 mg/kg	2.976	45.537 mg/kg	0.00455 %			
	028-035-00-7	238-766-5	14721-18-7								
10	zinc { zinc chromate }				165.5 mg/kg	2.774	459.121 mg/kg	0.0459 %			
	024-007-00-3	236-878-9	13530-65-9								
11	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	pH				6.1 pH		6.1 pH	6.1 pH			
			PH								
13	phenol				<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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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			<0.09 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				33.1 mg/kg		33.1 mg/kg	0.00331 %		
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:								0.069 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00331%)

Classification of sample: 3W8538HP[2]

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

Sample details

Sample name:	LoW Code:
3W8538HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **8.3% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				3.1 mg/kg	1.32	4.093 mg/kg	0.000409 %		
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				5.8 mg/kg	1.462	8.477 mg/kg	0.000848 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	 copper { dicopper oxide; copper (I) oxide }				3.6 mg/kg	1.126	4.053 mg/kg	0.000405 %		
	029-002-00-X	215-270-7	1317-39-1							
7	 lead { lead chromate }			1	6.6 mg/kg	1.56	10.295 mg/kg	0.00066 %		
	082-004-00-2	231-846-0	7758-97-6							
8	 mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	 zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	 boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	 pH		PH		6.8 pH		6.8 pH	6.8 pH		
12	 TPH (C6 to C40) petroleum group		TPH		51.3 mg/kg		51.3 mg/kg	0.00513 %		
Total:								0.0122 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.00513%)

Classification of sample: 3W8539DS

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

Sample details

Sample name:	LoW Code:
3W8539DS	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **19.1% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11.9 mg/kg	1.462	17.393 mg/kg	0.00174 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.4 mg/kg	1.126	9.457 mg/kg	0.000946 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	28.9 mg/kg	1.56	45.079 mg/kg	0.00289 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				6.6 mg/kg	2.976	19.643 mg/kg	0.00196 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				63.9 mg/kg	2.774	177.268 mg/kg	0.0177 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
	005-008-00-8	215-125-8	1303-86-2							
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 }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
			77536-66-4 77536-68-6 77536-67-5 12001-29-5								
14	• pH				8.2 pH		8.2 pH	8.2 pH			
15	phenol		PH		<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]				0.22 mg/kg		0.22 mg/kg	0.000022 %			
	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-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [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				0.52 mg/kg		0.52 mg/kg	0.000052 %			
		201-581-5	85-01-8								
26	• anthracene				0.18 mg/kg		0.18 mg/kg	0.000018 %			
		204-371-1	120-12-7								
27	• fluoranthene				1.95 mg/kg		1.95 mg/kg	0.000195 %			
		205-912-4	206-44-0								
28	• pyrene				1.63 mg/kg		1.63 mg/kg	0.000163 %			
		204-927-3	129-00-0								
29	benzo[a]anthracene				1.05 mg/kg		1.05 mg/kg	0.000105 %			
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.94 mg/kg		0.94 mg/kg	0.000094 %			
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				1.56 mg/kg		1.56 mg/kg	0.000156 %			
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.63 mg/kg		0.63 mg/kg	0.000063 %			
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				1.18 mg/kg		1.18 mg/kg	0.000118 %			
	601-032-00-3	200-028-5	50-32-8								
34	• indeno[123-cd]pyrene				0.59 mg/kg		0.59 mg/kg	0.000059 %			
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
	601-041-00-2	200-181-8	53-70-3								
36	• benzo[ghi]perylene				0.66 mg/kg		0.66 mg/kg	0.000066 %			
		205-883-8	191-24-2								
37	• coronene				0.16 mg/kg		0.16 mg/kg	0.000016 %			

#	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				144 mg/kg		144 mg/kg	0.0144 %		
			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:								0.0434 %		

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 Determinand - 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 3.2% to 34.8%, reducing the risk of flammability.

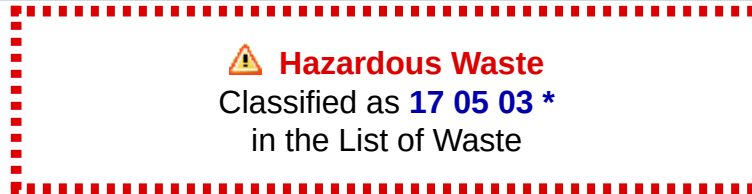
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0144%)

Classification of sample: 3W8539DS[2]



Sample details

Sample name:	LoW Code:	
3W8539DS[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.8 m		
Moisture content:		
7.3%		
(no correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.135%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.135%)

Determinands

Moisture content: 7.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				6.5 mg/kg	1.32	8.582 mg/kg	0.000858 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.6 mg/kg	1.462	18.416 mg/kg	0.00184 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
6	copper { dicopper oxide; copper (I) oxide }				12.7 mg/kg	1.126	14.299 mg/kg	0.00143 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	30.4 mg/kg	1.56	47.418 mg/kg	0.00304 %			
	082-004-00-2	231-846-0	7758-97-6								

#	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								
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				13 mg/kg	2.976	38.691 mg/kg	0.00387 %			
	028-035-00-7	238-766-5	14721-18-7								
10	zinc { zinc chromate }				58.4 mg/kg	2.774	162.01 mg/kg	0.0162 %			
	024-007-00-3	236-878-9	13530-65-9								
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
13	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
14	pH				8.5 pH		8.5 pH	8.5 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]				0.21 mg/kg		0.21 mg/kg	0.000021 %			
	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-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [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				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %			<LOD
		204-927-3	129-00-0								

#	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							
29	benzo[a]anthracene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
		205-883-8	191-24-2							
37	coronene				<8.63 mg/kg		<8.63 mg/kg	<0.000863 %		<LOD
		205-881-7	191-07-1							
38	TPH (C6 to C40) petroleum group				1350 mg/kg		1350 mg/kg	0.135 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.022 mg/kg		<0.022 mg/kg	<0.0000022 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.178 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 3.2% to 34.8%, 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.: 0.135%)

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.

■ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341, Acute Tox. 3; H331, Acute Tox. 3; H311, Acute Tox. 3; H301, STOT RE 2; H373, Skin Corr. 1B; H314, Skin Corr. 1B; H314 >= 3 %, Skin Irrit. 2; H315 1 <= conc. < 3 %, Eye Irrit. 2; H319 1 <= conc. < 3 %, Aquatic Chronic 2; H411

■ **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

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

▪ **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

■ **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

■ **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. Worst 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].

molybdenum {molybdenum(VI) oxide}

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

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 2G4000SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted.	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
20 April 2023	2.00 – 17.00 River Terrace Deposits/Lambeth Group	0.1	0.1	21.7	<1	<1	<0.1	<0.1	1021
23 May 2023		<0.1	0.1	21.3	1	<1	0.2	<0.1	1025
16 June 2023		<0.1	0.1	20.9	1	1	<0.1	<0.1	1025
14 July 2023		<0.1	0.1	21.3	<1	<1	<0.1	0.4	1011
09 October 2023		<0.1	0.1	21.3	<1	<1	<0.1	<0.1	1021
10 November 2023		0.1	1.4	20.9	<1	<1	<0.1	-0.1	992
11 December 2023		0.1	1.1	21.3	<1	<1	<0.1	<0.1	1003
10 January 2024		0.1	1.5	22.1	<1	<1	<0.1	<0.1	1027

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted.	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
08 February 2024		0.2	0.1	21.7	<1	<1	<0.1	0.2	996
06 March 2024		0.1	1.5	21.1	<1	<1	<0.1	<0.1	1020

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F2 Summary of Gas Monitoring for 2G4001SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
20 April 2023	1.0 – 11.00 River Terrace Deposits/London Clay	<0.1	0.1	21	<1	<1	<0.1	<0.1	1021
23 May 2023		<0.1	<0.1	21	1	<1	<0.1	<0.1	1024
16 June 2023		<0.1	0.1	20.2	2	1	0.1	<0.1	1019
14 July 2023		<0.1	0.4	20.2	<1	<1	0.4	-0.1	1009
11 September 2023		<0.1	0.4	19.6	1	<1	0.7	0.1	1013
09 October 2023		<0.1	1.4	17.3	<1	<1	0.7	<0.1	1022
10 November 2023		0.1	1.5	16.3	<1	<1	<0.1	-1.7	993

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F3 Summary of Gas Monitoring for 2G4003DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (mbar)
20 April 2023	1.0 – 4.00 Earnley/Witteri ng Formations	0.1	0.3	22.1	<1	<1	0.4	<0.1	1018
12 May 2023		<0.1	3.5	15.7	<1	<1	<0.1	<0.1	1017
23 May 2023		<0.1	7.5	7.1	1	<1	0.1	<0.1	1022
16 June 2023		<0.1	10	14.5	1	1	<0.1	<0.1	1015
17 July 2023		<0.1	6.5	16.8	<1	1	0.5	<0.1	1015
11 August 2023		<0.1	7.7	11.4	1	1	0.4	<0.1	1017
11 September 2023		0.1	8.5	14.9	<1	1	0.4	<0.1	1010
10 October 2023		<0.1	7.2	15.8	<1	<1	<0.1	<0.1	1018

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (mbar)
10 November 2023		0.1	10.9	10.8	<1	<1	<0.1	0.1 / -0.2	986
10 January 2024		0.1	5.8	21.6	<1	<1	<0.1	-0.5	1023

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F4 Summary of Gas Monitoring for 3G4022DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
03 April 2024	1.00 – 3.00 River Terrace Deposits	<0.1	<0.1	19.6	0	<10	<0.1	0	994
17 April 2024		<0.1	<0.1	19.6	0	<10	<0.1	0	1009
24 April 2024		<0.1	<0.1	19.5	0	<10	<0.1	0	1012
01 May 2024		<0.1	<0.1	19.5	1	<10	<0.1	0	1003
14 May 2024		<0.1	4.8	11.9	0	<10	1	0	994
30 May 2024		<0.1	7.2	13.8	0	<10	1	0	1005
17 June 2024		<0.1	5.7	16.3	0	<10	<0.1	0	1006
03 July 2024		<0.1	6.7	13.2	0	<10	None recorded	0	1000

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
17 July 2024	1.00– 3.00 River Terrace Deposits	<0.1	6.9	13.4	0	<10	<0.1	0	1004

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F5 Summary of Gas Monitoring for 3G4037DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 April 2024	3.00 – 5.70 Earnley Sand Formation	<0.1	<0.1	19.6	0	<10	<0.1	0	1008
30 April 2024		<0.1	<0.1	19.7	0	<10	<0.1	0	1009
15 May 2024		<0.1	2	17	0	<10	1	0	1000
31 May 2024		<0.1	0.2	20.7	0	<10	1	0	1011
17 June 2024		<0.1	<0.1	20.5	0	<10	<0.1	0	1006
03 July 2024		<0.1	0.6	14.5	0	<10	None recorded	0	1002

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F6 Summary of Gas Monitoring for 3G4038DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
30 April 2024	1.00 – 2.50 Earnley Sand Formation	<0.1	<0.1	19.7	0	<10	<0.1	0	1009
15 May 2024		<0.1	0.4	20.2	0	<10	1	42.6	999
31 May 2024		<0.1	0.8	9.1	0	<10	1	15.1	1011
17 June 2024		<0.1	0.3	3.3	0	<10	<0.1	-4.5	1007
03 July 2024		<0.1	4.8	<1*	0	10	None recorded	0	1002

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

*Potential erroneous result queried with contractor

Table F7 Summary of Gas Monitoring for 3G4102SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 April 2024	4.00 – 13.00 Wittering Formation	<0.1	<0.1	19.7	0.1	<10	<0.1	30.7	1007
30 April 2024		<0.1	<0.1	19.9	0	<10	<0.1	22.5	999
15 May 2024		<0.1	5	13.5	10	<10	1	0	996
31 May 2024		<0.1	4.8	14.5	<0.1	<10	1	-13.6	1011
17 June 2024		<0.1	<0.1	21	0	<10	0	-14.5	1004
03 July 2024		<0.1	6.1	13.7	0	<10	None recorded	8.4	1003

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F8 Summary of Gas Monitoring for 3G4105SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 April 2024	7.50 – 11.00 Earnley Sand Formation	<0.1	<0.1	20	0	<10	<0.1	0	1007
30 April 2024		<0.1	<0.1	19.2	0	<10	<0.1	2.2	1010
18 May 2024		<0.1	2.4	14.9	10	<10	1	0	998
31 May 2024		<0.1	2.7	13.1	21	<10	1	5.8	1006
17 June 2024		<0.1	3	15.4	0	<10	0	0	1003
03 July 2024		<0.1	0.2	20.9	0	<10	None recorded	0.9	1001

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F9 Summary of Gas Monitoring for 3G4106SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 April 2024	7.50 – 11.00 Earnley Sand Formation	<0.1	<0.1	19.7	0.1	<10	<0.1	30.7	1008
30 April 2024		<0.1	<0.1	19.5	0	<10	<0.1	11.2	1010
15 May 2024		<0.1	1.1	14.2	10	<10	1	0	996
30 May 2024		<0.1	0.9	14.5	10	<10	1	3.5	1005
17 June 2024		<0.1	0.9	16.2	0	<10	<0.1	-9.7	1003
03 July 2024		<0.1	2	16.2	0	<10	None recorded	8.8	1003

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F10 Summary of Gas Monitoring for 3W8529SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
19 June 2024	6.00 – 11.00 Wittering into the Whitecliff Sand Member	<0.1	0.9	19.6	0	<10	<0.1	0	1017
02 July 2024		<0.1	1.1	19.7	0	<10	None recorded	2.1	1014
17 July 2024		<0.1	1.7	17.5	0	<10	<0.1	-1	1016
29 July 2024		<0.1	2.2	19	0	<10	<0.1	0	1012
12 August 2024		<0.1	1.9	19.4	0	<10	<0.1	-0.8	1001

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F11 Summary of Gas Monitoring for 3W8530SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %v,0ol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
19 June 2024	6.00 – 10.00 Wittering into the Whitecliff Sand Member	<0.1	2.1	17.7	10	<10	<0.1	0	1017
02 July 2024		<0.1	2.3	19.1	10	<10	None recorded	-0.7	1015
17 July 2024		<0.1	3.5	16.3	0	<10	<0.1	-0.8	1016
29 July 2024		<0.1	3.7	17.9	0	<10	<0.1	0	1013
12 August 2024		<0.1	1.3	20	0	<10	<0.1	0	1002

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F12 Summary of Gas Monitoring for 3W8534DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
03 April 2024	2.00 – 3.00 River Terrace Deposits	<0.1	<0.1	19.5	<1	<1	None recorded	<0.1	994
24 April 2024		<0.1	<0.1	19.3	0	<10	<0.1	0	1011
01 May 2024		<0.1	<0.1	19.3	0	<10	<0.1	9	1005
14 May 2024		<0.1	7.7	4.7	<1	<1	None recorded	<0.1	993
30 May 2024 ^a		<0.1	9.1	5.4	11	<1	None recorded	<0.1	1007
17 June 2024		<0.1	8.5	13.5	0	<10	<0.1	0	1006
03 July 2024		<0.1	8.2	14.2	0	<10	None recorded	0	1000

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 July 2024		<0.1	8	12.9	0	<10	<0.1	0	1004

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

^a gas tap found open on monitoring round

Table F13 Summary of Gas Monitoring for 3W8535SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
22 May 2024	7.00 – 12.50 Wittering into the Whitecliff Sand Member	<0.1	1.5	18.6	<1	<10	None recorded	<0.1	1010
28 May 2024		<0.1	1.7	18.7	<1	<1	None recorded	<0.1	1011
18 June 2024		<0.1	0.5	20.8	10	<10	<0.1	0	1010
02 July 2024		<0.1	4.7	16.7	0	<10	None recorded	0	1018
17 July 2024		<0.1	5.4	13.3	0	<10	<0.1	0	1017

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F14 Summary of Gas Monitoring for 3W8536SA

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
03 April 2024	12.00 – 17.00 Whitecliff Sand Member	<0.1	<0.1	19.4	<1	<1	None recorded	0.6	997
24 April 2024		<0.1	<0.1	11	<1	<1	None recorded	<0.1	1017
01 May 2024		<0.1	<0.1	19.8	0	<10	<0.1	0	1005
29 May 2024		<0.1	0.7	19.9	0	<10	1	30.2	1010
17 June 2024		<0.1	<0.1	20.4	0	<10	<0.1	-4	1008
08 July 2024		<0.1	1.1	19.3	0	<10	None recorded	0	1010

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds, ppmv - Part per Million Volume

Table F15 Summary of Gas Monitoring for 3W8539DS

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
03 April 2024	1.00-2.00 Rivers Terrace Deposits	<0.1	<0.1	19.5	0	<10	1	0	994
24 April 2024		<0.1	<0.1	19.3	0	<10	<0.1	0	1012
01 May 2024		<0.1	<0.1	19.5	0	<10	<0.1	0	1005
14 May 2024		<0.1	4.7	14.9	0	<10	1	0	996
30 May 2024		<0.1	5.7	14	0	<10	1	0	1008
17 June 2024		<0.1	4.9	14.2	0	<10	<0.1	0	1010
03 July 2024		<0.1	4	16.4	0	<10	None recorded	0	1001

Peak Gas Concentrations (minimum for Oxygen)									
	Response Zone (m bgl) and strata targeted	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr	Atmospheric Pressure (m bar)
16 July 2024		<0.1	10.2	6	0	<10	<0.1	0	1004

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – 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 (GAC)

To evaluate potential risks to human health receptors, 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 Applicant workers 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 partitioning behaviour of a chemical between soil and water. The default is pH 7. The ground encountered have been found to have a pH between 7.4 and 9.5.

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 a bedrock Principal Aquifer (White Chalk Subgroup). 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.
- 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.
- The Drinking Water Inspectorate (DWI) Guidance on the Water Supply (Water Quality) Regulations 2016 (as amended) for England and Water Supply (Water Quality) Regulations 2018 for Wales specific to PFAS (per-and poly-fluoroalkyl substances) in drinking water (August 2024) Tier 3 action threshold has been used for reference purposes. The threshold is that beyond which water companies should not be supplying water to customers.

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 controlled waters receptors, including the underlying Secondary A Aquifer, Secondary Undifferentiated Aquifer, Principal Aquifer and nearby River Wallington, 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.

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.

¹ DWI (2024) Guidance on The Water Supply (Water Quality) Regulations 2016 (as amended) for England and Water Supply (Water Quality) Regulations 2018 for Wales specific to PFAS (per-and polyfluoroalkyl substances) in drinking water DWI, August 2024.

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 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 hazards.

Appendix H: Risk Assessment Tables

Table H 1.0 Contaminated Land Risk Assessment for Section G

Pits - Gravel (2G4002DS, 2G4003DS and 2G4004DS) – Section G						
PSC No.	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
Pits - Gravel (PSCs 36 and 52). Potential for Made Ground with potential for infill of unknown material. PSCs 36 and 52 are located along the southwestern boundary of Wickham Golf Course and are within the 50m buffer zone of the Section G DoL (approximately 10m from the DoL at closest point). The northeastern area of PSC 37 encroaches the 50m buffer zone of the DoL.	Made Ground encountered (brick, chalk, charcoal, chert) to 0.4m bgl). No exceedances of commercial GAC protective of human health were encountered within soil samples collected. The single soil leachate sample yielded one EQS exceedance of chromium VI and Total TPH exceedances of the withdrawn WQS. No groundwater samples as 2G4003DS was 'dry' during monitoring rounds. Carbon dioxide concentrations exceeded both short- and long-term WELs. Low oxygen concentrations recorded. Potential for further ground gas generation from other areas of unknown fill composition in the vicinity.	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 (dependent on extent of gravel pit and potential infilling)	Low
			Inhalation of gases and vapours.	Medium	Low Likelihood	Moderate/Low
		Adjacent land users: Closest residential properties are approximately 45m west, users and visitors of Wickham Golf Course.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works	Mild	Low Likelihood	Low
		On Site existing and future property (buildings and buried services): No building structures as part of scheme at this location.	Direct contact and gas migration / accumulation.	Medium	Unlikely	Low
		Surface water bodies/watercourses: Small land drain/watercourse located within the DoL and flows easterly through the former gravel pit areas to a pond in the golf course, which drains to the River Meon.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Low Likelihood	Moderate/Low
		Groundwater: Superficial deposits are River Terrace Deposits (Secondary A Aquifer). Wittering Formation – sand, silt and clay (Secondary A Aquifer) and Earnley Sand Formation – sand (Secondary A Aquifer).	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

Table H 2.0 Contaminated Land Risk Assessment for Section G

Trenchless Crossing of the River Meon (3W8536SA)						
PSCs	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
No PSCs identified at 3W8535SA. 3W8536SA is within the footprint of the operational Wickham Wastewater Treatment Works (PSC 485).	Made Ground encountered to 0.35 m bgl (slightly gravelly slightly sandy silty clay with gravels of chert, brick and rare fragments of glass, ceramic and metal). No exceedances of commercial GAC protective of human health were encountered within soil samples collected. Groundwater concentrations exceedances (response zone in the Whitecliff Sand Member) of DWS and EQS for manganese, iron and zinc. TPH Aliphatics and Aromatics C8 – C40. E.coli detected in groundwater samples. Carbon dioxide concentrations exceeded long-term WELs. Potential for further ground gas generation from unknown fill composition. One low oxygen concentrations recorded during monitoring. Wells were flooded during monitoring rounds.	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact and ingestion and inhalation of dusts.	Mild	Low Likelihood (at temporary shaft locations, excavation activities may bring construction workers into contact with contaminated groundwater.	Low
			Inhalation of gases and vapours	Medium	Likely (temporary shaft and operations activities access pits)	Moderate
		Adjacent land users: Wastewater treatment works operators and users; Wickham Golf Course adjacent to the north.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works.	Mild	Low Likelihood Disturbance of ground during excavation.	Low
		On Site existing and future infrastructure property (buildings and buried services): No building structures as part of scheme at this location (temporary shafts)	Direct contact and gas migration / accumulation.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: River Meon located approximately 40m south (closest point) of Wickham WTW. Trenchless crossing beneath the River Meon, which is likely in hydraulic continuity with local groundwater.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Low Likelihood	Moderate/Low
		Groundwater: River Terrace Deposits (Secondary A Aquifer) underlain by Whitecliff Sand Member (Secondary A Aquifer) from ground conditions encountered during GI.	Leaching through unsaturated and saturated soil. Trenchless crossing beneath the River Meon may create a preferential pathway for contamination to impact groundwater.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No statutory designated sites within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Unlikely	Very Low

Table H 3.0 Contaminated Land Risk Assessment Table for Section G

Trenchless Crossing of the River Meon (3W8535SA)						
PSCs	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
No PSCs identified at 3W8535SA.	No exceedances of commercial GAC protective of human health were encountered within soil samples collected. Soil leachate results at 3W8535SA 3.8m bgl and 4.5 m bgl exceedances of TPH above the GAC (withdrawn WQS). Groundwater exceedance of EQS for zinc. Carbon dioxide concentrations exceeded both long and short term WELs. Low oxygen concentrations were also recorded. Well was flooded during all monitoring rounds.	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact and ingestion and inhalation of dusts.	Mild	Likely (construction workers encountering groundwater at temporary shaft locations)	Moderate/Low
			Inhalation of gases and vapours	Medium	Likely (temporary shaft and operations activities access pits)	Moderate
		Adjacent land users: Agricultural	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works.	Mild	Low Likelihood	Low
		On Site existing and future infrastructure property (buildings and buried services): No building structures as part of scheme at this location (temporary shafts)	Direct contact and gas migration / accumulation.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: River Meon located approximately 150 m northwest of location. Trenchless crossing beneath the River Meon, which is likely in hydraulic continuity with local groundwater.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Low Likelihood	Moderate/Low
		Groundwater: River Terrace Deposits (Secondary A Aquifer) underlain by Whitecliff Sand Member (Secondary A Aquifer) from ground conditions encountered during GI.	Leaching through unsaturated and saturated soil. Trenchless crossing beneath the River Meon may create a preferential pathway for contamination to impact groundwater.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No statutory designated sites within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Unlikely	Very Low

Table H 4.0 Contaminated Land Risk Assessment for Section G

Trenchless Crossing of the A32, Hoads Hill (3W8529SA and 3W8530SA)						
PSCs	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
No PSC identified Exceedances of GAC in soil leachates and groundwater samples at locations advanced at trenchless crossing (temporary shaft) locations	No exceedances of commercial GAC protective of human health were encountered within soil samples collected. Soil leachate testing yielded EQS exceedances of cadmium, copper, nickel and zinc; DWS exceedances of ammonium (NH4), nickel, sulphate and selenium and one WFD exceedance of total ammonia. TPH concentrations exceeded the GAC (withdrawn WQS). The majority of these exceedances were recorded in 3W8529SA. Groundwater sampling yielded EQS exceedances of anthracene, cyanide, fluoranthene, nickel and zinc with one DWS exceedance of nickel. TPH concentrations in 3W8529SA exceeded the GAC (withdrawn WQS). Carbon dioxide concentrations exceeded both short- and long-term WELs. Oxygen concentrations detected at or below 19% were recorded at both locations on two monitoring rounds. The response zones for each borehole during rounds where water levels were recorded, were flooded, gas data is used as indicative.	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact and ingestion and inhalation of dusts.	Mild	Likely (construction workers encountering groundwater at temporary shaft locations)	Moderate/Low
			Inhalation of gases and vapours	Medium	Likely	Moderate
		Adjacent land users: Agricultural land users. Residential approximately 80 m to the south.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works.	Mild	Low Likelihood (Disturbance of ground during excavation)	Low
		On Site existing and future infrastructure property (buildings and buried services): No buildings are part of the scheme. Below ground chambers / receptor pits potentially part of the scheme (temporary shafts).	Direct contact and gas migration / accumulation.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: Trenchless crossing beneath a culverted drain which flows beneath the A32.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Likely	Moderate
		Groundwater: (Secondary A Aquifer) Wittering Formation/Whitecliff Sand Member.	Leaching through unsaturated and saturated soil. Trenchless crossing may create a preferential pathway for contamination to impact groundwater.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No nearby designations (250 m radius).	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Unlikely	Very Low

Table H 5.0 Contaminated Land Risk Assessment for Section G

Trenchless Crossing of the A334, Winchester Road (3G4102SA)						
PSCs	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
No PSC identified A former gravel pit (PSC 45) is located approximately 90 m southeast of this location. Exceedances of GAC in groundwater samples at location advanced at trenchless crossing (temporary shaft) locations	No exceedances of commercial GAC protective of human health were encountered within soil samples collected. No soil leachate testing. Groundwater sampling yielded EQS exceedances of cadmium, copper, chromium (III), lead, nickel, and zinc with DWS exceedances of lead. TPH concentrations exceeded the GAC (withdrawn WQS) during one monitoring round. Carbon dioxide concentrations exceeded both short- and long-term WELs. Oxygen concentrations <19 % were recorded during three of the six monitoring rounds. Carbon monoxide concentration recorded at 10 ppm. High recorded gas flow rates.	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact and ingestion and inhalation of dusts.	Mild	Likely (construction workers encountering groundwater at temporary shaft locations)	Moderate/Low
			Inhalation of gases and vapours.	Medium	Likely	Moderate
		Adjacent land users: Agricultural land users.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works.	Mild	Low (Disturbance of ground during excavation)	Low
		On Site existing and future infrastructure property (buildings and buried services): No buildings are part of the scheme. Below ground chambers / receptor pits potentially part of the scheme (temporary shafts).	Direct contact and gas migration / accumulation.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: None within 250 m. Potential road drain 80 m.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Low Likelihood	Moderate/Low
		Groundwater: (Secondary A Aquifer) River Terrace Deposits, Wittering Formation. London Clay Formation (Unproductive Stratum)	Leaching through unsaturated and saturated soil.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No nearby designations (250 m radius).	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals.	Mild	Unlikely	Very Low

Table H 6.0 Contaminated Land Risk Assessment Table for Section G

Pits - Various (3W8534DS and 3W8539DS) – Section G						
PSC No.	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
Pits – Various (PSC 46). Made Ground encountered at GI locations. Nature and extent of infill material unconfirmed. Gas regime unconfirmed.	Made Ground to 2.20 m bgl (3W8534DS) sandy very gravelly clays.. Gravels comprised chert, brick, chalk, concrete and macadam. No exceedances of commercial GAC protective of human health. Hydrocarbon odour noted within 3W8539DS at the base of Made Ground (0.75m-0.85m). Hazardous properties classification due to presence of TPH (3W8539DS 0.8m). Groundwater concentrations of anthracene, copper, nickel, fluoranthene and zinc exceeded the EQS GAC, concentrations of ammonium (NH ₄) and indeno(1,2,3-cd)pyrene exceeded DWS GAC. Concentrations of PAHs exceeded both their DWS and EQS GACs. Total ammonia exceedances in groundwater samples (3W8539DS) (maximum concentration 5,196 µg/l). TPH concentrations between 20 µg/l and 4,680 µg/l exceed GAC (withdrawn WQS). Carbon dioxide concentrations exceeded both long and short term WELs. Low oxygen levels (5.1% v/v) were recorded.	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	Likely (dependent on extent of gravel pit)	Moderate
			Inhalation of gases and vapours.	Medium	Likely	Moderate
		Adjacent land users: Users of Wickham Golf Course (no excavation works).	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works	Medium	Low likelihood	Moderate/Low
		On Site existing and future property (buildings and buried services): No building structures as part of scheme at this location.	Direct contact and gas migration / accumulation.	Medium	Unlikely (Section due to undergo open cut excavations, unlikely gases will therefore accumulate)	Low
		Surface water bodies/watercourses: Small drain/water course within the golf course and with the DoL The watercourse flows in an easterly/southeasterly direction towards the River Meon.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Likely	Moderate
		Groundwater: Superficial deposits are River Terrace Deposits (Secondary A Aquifer). Earnley Sand Formation – sand, silt, clay (Secondary A Aquifer).	Leaching through unsaturated and saturated soil.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No statutory designated areas within 250m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals	Mild	Low Likelihood	Low

Table H 7.0 Contaminated Land Risk Assessment for Section G

Garage (3G4038DS) including 3G4022DS and 3G4037DS – Section G						
PSC No.	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
Garage (PSC 475). Potential for Made Ground Exploratory Hole locations 3G4022DS and 3G4037DS have been added into this RA due to their proximity to PSC 475 (within 100 m). The source of the TPH, metals and PAHs within groundwater may be related the PSCs within proximity in particular the vehicle repair garage (PSC 475). Potential for further ground gas generation, unusually	No exceedances of commercial GAC protective of human health. Asbestos (chrysotile 0.009%) detected in Made Ground (3G4038DS at 0.1 m bgl). Soil leachate exceeded EQS exceedances for copper, chromium (VI) and lead. DWS for ammonium (NH ₄) and GAC (withdrawn WQS) for TPH. Total ammonia also exceeded the WFD GAC. Groundwater concentrations of TPH exceeded the GAC (withdrawn WQS) with concentrations of cadmium, chromium (III) and (VI), copper, fluoranthene, nickel and zinc exceeding the EQS GAC. Lead concentrations also exceeded both the EQS and DWS GAC. Carbon dioxide concentrations exceeded both short- and long-term WELs. Low oxygen levels recorded. Hydrogen sulphide concentration exceeded the LTL. High flow rates recorded at 3G4038DS. Some of the readings coincide with a flooded well which is likely to affect gas readings.	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.	Severe	Likely (Construction workers encountering PCOCs esp. asbestos)	High
			Inhalation of gases and vapours	Medium	Likely	Moderate
		Adjacent land users: Garage users, car park for golf club users and nursery (garden centre) adjacent. Gardens of residential properties approximately 20 m northwest.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works	Medium	Likely (based on presence of asbestos)	Moderate
		On Site existing and future property (buildings and buried services): No building structures as part of scheme at this location.	Direct contact and gas migration / accumulation.	Mild	Low Likelihood	Low
		Surface water bodies/watercourses: Land drain flows through Wickham golf course approximately 180 m south.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Mild	Low Likelihood	Low
		Groundwater: Wittering Formation – sand, silt and clay (Secondary A Aquifer) and Earnley Sand Formation – sand (Secondary A Aquifer) at location of pipeline. Superficial deposits are River Terrace Deposits and Alluvium.	Leaching through unsaturated and saturated soil.	Medium	Likely	Moderate
		Ecological receptors (flora and fauna): No statutory designated areas within 250m. Ancient Woodland located approximately 220m northwest.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals	Mild	Low Likelihood	Low

Table H 7.0 Contaminated Land Risk Assessment for Section G

IPS-G (3G4105SA and 3G4106SA) – Section G						
PSC No.	Potential Contaminants of Concern	Potential Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (without mitigation measures)
3G4105SA and 3G106SA GI locations advanced to target the footprint of AGP compound IPS-G.	No exceedances of commercial GAC protective of human health were encountered within soil samples collected. Hazardous sample detected within 3G4105SA, 1.00 m bgl, due to the presence of TPH. Groundwater sampling was not carried out at GI locations due to locations being dry during monitoring. Carbon dioxide levels exceeded both short- and long-term WELs. Low oxygen levels recorded. Potential for further ground gas generation, unusually high flow rates recorded beneath location. A CS3 classification has been applied to the site. However, a credible gas source beneath or near the site has not been identified.	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	Likely Potential for exposure of ground gas which could accumulate in below ground chambers or utilities	Moderate
			Inhalation of gases and vapours	Medium	Likely	Moderate
		Adjacent land users: Agricultural land users.	Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works	Medium	Unlikely	Low
		On Site existing and future property (buildings and buried services): No building structures as part of scheme at this location.	Direct contact and gas migration / accumulation.	Medium	Likely	Moderate
		Surface water bodies/watercourses: Small drain / watercourse to the south of the GI locations which eventually flows towards the River Meon in the southeast.	Surface water runoff from stockpiles and migration through groundwater and underground utilities.	Medium	Likely	Moderate/Low
		Groundwater: Wittering Formation – sand, silt and clay (Secondary A Aquifer) and Earnley Sand Formation – sand (Secondary A Aquifer) at location of pipeline Superficial deposits are River Terrace Deposits.	Leaching through unsaturated and saturated soil.	Medium	Low likelihood	Moderate/Low
		Ecological receptors (flora and fauna): No nearby designations (250 m radius)	Plant uptake, direct contact, ingestion and inhalation of dusts, gases and vapours by animals	N/A	N/A	N/A

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)			
		<i>Severe</i>	<i>Medium</i>	<i>Mild</i>	<i>Minor</i>
	<i>High likelihood</i>	Very high risk	High risk	Moderate risk	Moderate/low risk
	<i>Likely</i>	High risk	Moderate risk	Moderate/low risk	Low risk
	<i>Low likelihood</i>	Moderate risk	Moderate/low risk	Low risk	Very low risk
	<i>Unlikely</i>	Moderate/low risk	Low risk	Very low risk	Very low risk

Appendix J: Bearing Resistance and Settlement at IPS-G

Project WFLH IPS-G Pumping Station				Job no. 331101000 100.02505	
Calcs for SSP				Start page no./Revision 1	
Calcs by Alistair	Calcs date 15/10/2024	Checked by Gareth Davies	Checked date 04/11/2024	Approved by	Approved date

FOUNDATION ANALYSIS

In accordance with EN1997-1:2004 + A1:2013 incorporating corrigendum February 2009 and the UK National Annex incorporating corrigendum No.1

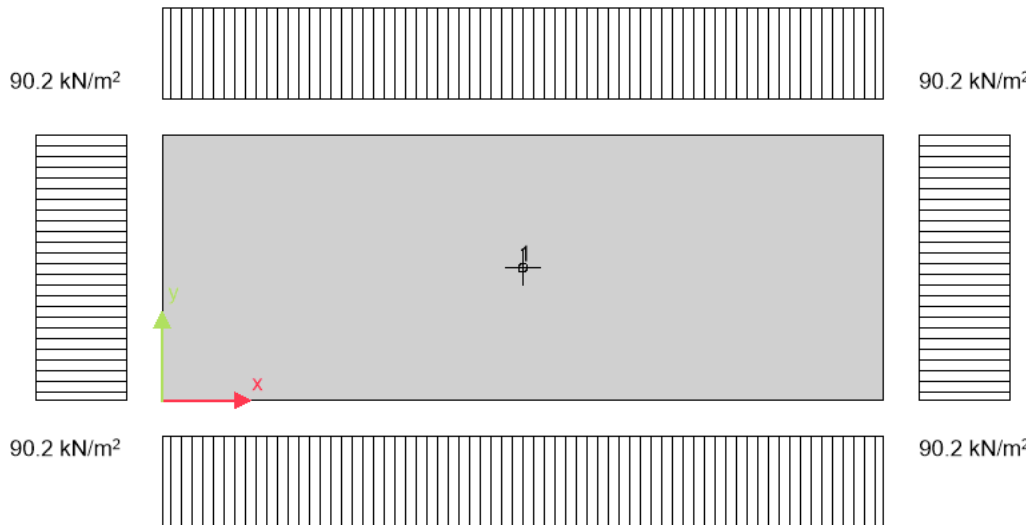
Tedds calculation version 3.3.05

Summary table

Description	Unit	Allowable	Actual	Utilisation	Result
Base pressure	kN/m ²	970.5	90.2	0.093	Pass

Pad foundation details

Length of foundation	$L_x = 30000$ mm
Width of foundation	$L_y = 11000$ mm
Foundation area	$A = L_x \times L_y = 330.000$ m ²
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	$\gamma_{water} = 9.8$ kN/m ³
Density of concrete	$\gamma_{conc} = 25.0$ kN/m ³



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	$\gamma_{soil} = 17.0$ kN/m ³
Characteristic cohesion	$c'_k = 0$ kN/m ²
Characteristic effective shear resistance angle	$\phi'_k = 30$ deg
Characteristic friction angle	$\delta_k = 30$ deg

Foundation loads

Permanent surcharge load	$F_{Gsur} = 65.0$ kN/m ²

Project				Job no.	
WFLH IPS-G Pumping Station				331101000 100.02505	
Calcs for				Start page no./Revision	
SSP				2	
Calcs by	Calcs date	Checked by	Checked date	Approved by	Approved date
Alistair	15/10/2024	Gareth Davies	04/11/2024		

Self weight $F_{swt} = h \times \gamma_{conc} = \mathbf{15.0 \text{ kN/m}^2}$

Soil weight $F_{soil} = h_{soil} \times \gamma_{soil} = \mathbf{10.2 \text{ kN/m}^2}$

Column no.1 loads

Permanent axial load $F_{Gz1} = \mathbf{0.0 \text{ kN}}$

Design approach 1

Partial factors on actions - Combination1

Partial factor set **A1**

Permanent unfavourable action - Table A.3 $\gamma_G = \mathbf{1.35}$

Permanent favourable action - Table A.3 $\gamma_{Gf} = \mathbf{1.00}$

Variable unfavourable action - Table A.3 $\gamma_Q = \mathbf{1.50}$

Variable favourable action - Table A.3 $\gamma_{Qf} = \mathbf{0.00}$

Partial factors for soil parameters - Combination1

Soil factor set **M1**

Angle of shearing resistance - Table A.4 $\gamma_\psi = \mathbf{1.00}$

Effective cohesion - Table A.4 $\gamma_{c'} = \mathbf{1.00}$

Weight density - Table A.4 $\gamma_\gamma = \mathbf{1.00}$

Partial factors for spread foundations - Combination1

Resistance factor set **R1**

Bearing - Table A.5 $\gamma_{R,v} = \mathbf{1.00}$

Sliding - Table A.5 $\gamma_{R,h} = \mathbf{1.00}$

Bearing resistance (Section 6.5.2)

Forces on foundation

Force in z-direction $F_{dz} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) + F_{Gz1}) = \mathbf{40184.1 \text{ kN}}$

Moments on foundation

Moment in x-direction $M_{dx} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_x / 2 + F_{Gz1} \times x_1) = \mathbf{602761.5 \text{ kNm}}$

Moment in y-direction $M_{dy} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_y / 2 + F_{Gz1} \times y_1) = \mathbf{221012.6 \text{ kNm}}$

Eccentricity of base reaction

Eccentricity of base reaction in x-direction $e_x = M_{dx} / F_{dz} - L_x / 2 = \mathbf{-0 \text{ mm}}$

Eccentricity of base reaction in y-direction $e_y = M_{dy} / F_{dz} - L_y / 2 = \mathbf{0 \text{ mm}}$

Effective area of base

Effective length $L'_x = L_x + 2 \times e_x = \mathbf{30000 \text{ mm}}$

Effective width $L'_y = L_y - 2 \times e_y = \mathbf{11000 \text{ mm}}$

Effective area $A' = L'_x \times L'_y = \mathbf{330.000 \text{ m}^2}$

Pad base pressure

Design base pressure $f_{dz} = F_{dz} / A' = \mathbf{121.8 \text{ kN/m}^2}$

Ultimate bearing capacity under drained conditions (Annex D.4)

Design angle of shearing resistance $\phi'_d = \text{atan}(\tan(\phi'_k) / \gamma_\psi) = \mathbf{30.000 \text{ deg}}$

Design effective cohesion $c'_d = c'_k / \gamma_{c'} = \mathbf{0.000 \text{ kN/m}^2}$

Effective overburden pressure $q = (h + h_{soil}) \times \gamma_{soil} - h_{water} \times \gamma_{water} = \mathbf{20.400 \text{ kN/m}^2}$

Design effective overburden pressure $q' = q / \gamma_\gamma = \mathbf{20.400 \text{ kN/m}^2}$

Bearing resistance factors $N_q = \text{Exp}(\pi \times \tan(\phi'_d)) \times (\tan(45 \text{ deg} + \phi'_d / 2))^2 = \mathbf{18.401}$

$N_c = (N_q - 1) \times \cot(\phi'_d) = \mathbf{30.140}$

$N_\gamma = 2 \times (N_q - 1) \times \tan(\phi'_d) = \mathbf{20.093}$

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Foundation shape factors

$$S_q = 1 + (L'_y / L'_x) \times \sin(\phi'_d) = \mathbf{1.183}$$

$$S_\gamma = 1 - 0.3 \times (L'_y / L'_x) = \mathbf{0.890}$$

$$S_c = (S_q \times N_q - 1) / (N_q - 1) = \mathbf{1.194}$$

Load inclination factors

$$H = \mathbf{0.0 \text{ kN}}$$

$$m_y = [2 + (L'_y / L'_x)] / [1 + (L'_y / L'_x)] = \mathbf{1.732}$$

$$m_x = [2 + (L'_x / L'_y)] / [1 + (L'_x / L'_y)] = \mathbf{1.268}$$

$$m = m_x = \mathbf{1.268}$$

$$i_q = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^m = \mathbf{1.000}$$

$$i_\gamma = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^{m+1} = \mathbf{1.000}$$

$$i_c = i_q - (1 - i_q) / (N_c \times \tan(\phi'_d)) = \mathbf{1.000}$$

Ultimate bearing capacity

$$n_f = c'_d \times N_c \times S_c \times i_c + q' \times N_q \times S_q \times i_q + 0.5 \times \gamma_{soil} \times L'_y \times N_\gamma \times S_\gamma \times i_\gamma = \mathbf{2116.2 \text{ kN/m}^2}$$

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	$\gamma_G = \mathbf{1.00}$
Permanent favourable action - Table A.3	$\gamma_{Gf} = \mathbf{1.00}$
Variable unfavourable action - Table A.3	$\gamma_Q = \mathbf{1.30}$
Variable favourable action - Table A.3	$\gamma_{Qf} = \mathbf{0.00}$

Partial factors for soil parameters - Combination2

Soil factor set	M2
Angle of shearing resistance - Table A.4	$\gamma_\phi = \mathbf{1.25}$
Effective cohesion - Table A.4	$\gamma_{c'} = \mathbf{1.25}$
Weight density - Table A.4	$\gamma_\gamma = \mathbf{1.00}$

Partial factors for spread foundations - Combination2

Resistance factor set	R1
Bearing - Table A.5	$\gamma_{R,v} = \mathbf{1.00}$
Sliding - Table A.5	$\gamma_{R,h} = \mathbf{1.00}$

Bearing resistance (Section 6.5.2)

Forces on foundation

$$F_{dz} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) + F_{Gz1}) = \mathbf{29766.0 \text{ kN}}$$

Moments on foundation

$$M_{dx} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_x / 2 + F_{Gz1} \times x_1) = \mathbf{446490.0 \text{ kNm}}$$

$$M_{dy} = \gamma_G \times (A \times (F_{swt} + F_{soil} + F_{Gsur}) \times L_y / 2 + F_{Gz1} \times y_1) = \mathbf{163713.0 \text{ kNm}}$$

Eccentricity of base reaction

$$e_x = M_{dx} / F_{dz} - L_x / 2 = \mathbf{-0 \text{ mm}}$$

$$e_y = M_{dy} / F_{dz} - L_y / 2 = \mathbf{0 \text{ mm}}$$

Effective area of base

$$L'_x = L_x + 2 \times e_x = \mathbf{30000 \text{ mm}}$$

$$L'_y = L_y - 2 \times e_y = \mathbf{11000 \text{ mm}}$$

$$A' = L'_x \times L'_y = \mathbf{330.000 \text{ m}^2}$$

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Pad base pressure

Design base pressure $f_{dz} = F_{dz} / A' = \mathbf{90.2 \text{ kN/m}^2}$

Ultimate bearing capacity under drained conditions (Annex D.4)

Design angle of shearing resistance $\phi'_d = \text{atan}(\tan(\phi'_k) / \gamma_\phi) = \mathbf{24.791 \text{ deg}}$

Design effective cohesion $c'_d = c'_k / \gamma_c = \mathbf{0.000 \text{ kN/m}^2}$

Effective overburden pressure $q = (h + h_{\text{soil}}) \times \gamma_{\text{soil}} - h_{\text{water}} \times \gamma_{\text{water}} = \mathbf{20.400 \text{ kN/m}^2}$

Design effective overburden pressure $q' = q / \gamma_\gamma = \mathbf{20.400 \text{ kN/m}^2}$

Bearing resistance factors $N_q = \text{Exp}(\pi \times \tan(\phi'_d)) \times (\tan(45 \text{ deg} + \phi'_d / 2))^2 = \mathbf{10.431}$

$N_c = (N_q - 1) \times \cot(\phi'_d) = \mathbf{20.418}$

$N_\gamma = 2 \times (N_q - 1) \times \tan(\phi'_d) = \mathbf{8.712}$

Foundation shape factors $s_q = 1 + (L'_y / L'_x) \times \sin(\phi'_d) = \mathbf{1.154}$

$s_\gamma = 1 - 0.3 \times (L'_y / L'_x) = \mathbf{0.890}$

$s_c = (s_q \times N_q - 1) / (N_q - 1) = \mathbf{1.170}$

Load inclination factors $H = \mathbf{0.0 \text{ kN}}$

$m_y = [2 + (L'_y / L'_x)] / [1 + (L'_y / L'_x)] = \mathbf{1.732}$

$m_x = [2 + (L'_x / L'_y)] / [1 + (L'_x / L'_y)] = \mathbf{1.268}$

$m = m_x = \mathbf{1.268}$

$i_q = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^m = \mathbf{1.000}$

$i_\gamma = [1 - H / (F_{dz} + A' \times c'_d \times \cot(\phi'_d))]^{m+1} = \mathbf{1.000}$

$i_c = i_q - (1 - i_q) / (N_c \times \tan(\phi'_d)) = \mathbf{1.000}$

Ultimate bearing capacity $n_f = c'_d \times N_c \times s_c \times i_c + q' \times N_q \times s_q \times i_q + 0.5 \times \gamma_{\text{soil}} \times L'_y \times N_\gamma \times s_\gamma \times i_\gamma = \mathbf{970.5 \text{ kN/m}^2}$

PASS - Ultimate bearing capacity exceeds design base pressure

Ultimate Bearing Resistance (q_n) - Undrained case - for Twin cell tank at IPS-G

C_u for firm clay is minimum 40 kPa

q_n is $(\pi+2) * C_u$

q_n is $5.14 * 40$

q_n is **205.6** kPa
approximately 200 kPa

Comparison to Drained case calculated on Tekla Tedds, drained case for q_n is 970kPa (that has had partial factor applied also)

Therefore ultimate bearing resistance (q_n) in the undrained case of 205.6 kPa is most critical

FILENAME : TILSET.WK1

BLANK FILENAME : SURSET.WRK

SETTLEMENTS BENEATH RECTANGULAR, UNIFORMLY LOADED, FLEXIBLE FOOTING

FOUNDED AT THE SURFACE. (Settlements calculated for sands & clays in layers)

JOB No. : BY : AC

JOB NAME : IPS-G AGP Site

NOTES : Pumping Station

TIME & DATE: 04:30 PM 15/10/24

FOUNDATION BREADTH (m): 11

FOUNDATION LENGTH (m): 30

LOAD ON FOUNDATION (kN/m^2): 65.0

TOTAL SETTLEMENT (mm)

CENTRE : 1 12.9

CORNER :

RIGID FOUNDATION (mm)

10.4

WITH FOX'S CORRECTION

0.0

FOX'S CORRECTION FACTOR

LAYER	DEPTH	DEPTH	EFFECTIVE	VOID RATIO	PRECONSOL.	CLAY	CLAY	CLAY	SAND	INITIAL	INCREASE	TOTAL EFF.	DEPTH FROM	LAYER	TOTAL
NUMBER	FROM	TO	UNIT Wt.	(eo)	PRESSURE	Cr	Cc	mv	qc	STRESS	IN STRESS	STRESS	SURFACE	SETTLEMENT	SETTLEMENT
	(m)	(m)	(kN/m^3)	(SAND = 0)	(kN/m^2)			(m^2/MN)	(kN/m^2)	(kN/m^2)	(kN/m^2)	(kN/m^2)	(m)	(mm)	(mm)
1	0.0	0.5	18.0	0.300		River Terrace Deposits (clay)		0.100		4.50	65.00	69.50	0.25	3.2	12.9
2	0.5	1.0	18.0	0.300		River Terrace Deposits (clay)		0.100		13.50	64.93	78.43	0.75	3.2	9.7
3	1.0	2.0	18.0	0.300		River Terrace Deposits (clay)		0.100		27.00	64.48	91.48	1.50	6.4	6.4
4	2.0	3.0	17.0	0.000		Earnley Sand Formation				44.50	62.89	107.39	2.50	0.0	0.0
5	3.0	4.0	17.0	0.000		Earnley Sand Formation				61.50	60.17	121.67	3.50	0.0	0.0
6	4.0	5.0	17.0	0.000		Earnley Sand Formation				78.50	56.66	135.16	4.50	0.0	0.0
7	5.0	6.0	17.0	0.000		Earnley Sand Formation				95.50	52.76	148.26	5.50	0.0	0.0
8	6.0	7.0	17.0	0.000		Earnley Sand Formation				112.50	48.81	161.31	6.50	0.0	0.0
9	7.0	8.0	17.0	0.000		Earnley Sand Formation				129.50	44.99	174.49	7.50	0.0	0.0
10	8.0	9.0	17.0	0.000		Earnley Sand Formation				146.50	41.41	187.91	8.50	0.0	0.0
11	9.0	10.0	17.0	0.000		Earnley Sand Formation				163.50	38.10	201.60	9.50	0.0	0.0
12	10.0	11.0	17.0	0.000		Earnley Sand Formation				180.50	35.07	215.57	10.50	0.0	0.0
13	11.0	12.0	17.0	0.000		Earnley Sand Formation				197.50	32.32	229.82	11.50	0.0	0.0
14	12.0	13.0	17.0	0.000		Earnley Sand Formation				214.50	29.81	244.31	12.50	0.0	0.0
15	13.0	14.0	17.0	0.000		Earnley Sand Formation				231.50	27.54	259.04	13.50	0.0	0.0
16	14.0	15.0	17.0	0.000		Earnley Sand Formation				248.50	25.48	273.98	14.50	0.0	0.0
17	15.0	16.0	17.0	0.000		Earnley Sand Formation				265.50	23.61	289.11	15.50	0.0	0.0
18	16.0	17.0	17.0	0.000		Earnley Sand Formation				282.50	21.91	304.41	16.50	0.0	0.0
19	17.0	18.0	17.0	0.000		Earnley Sand Formation				299.50	20.36	319.86	17.50	0.0	0.0
20	18.0	19.0	17.0	0.000		Earnley Sand Formation				316.50	18.96	335.46	18.50	0.0	0.0
21	19.0	20.0	17.0	0.000		Earnley Sand Formation				333.50	17.68	351.18	19.50	0.0	0.0
22	20.0	21.0	17.0	0.000		Earnley Sand Formation				350.50	16.51	367.01	20.50	0.0	0.0
23	21.0	22.0	17.0	0.000		Earnley Sand Formation				367.50	15.44	382.94	21.50	0.0	0.0
24	22.0	23.0	17.0	0.000		Earnley Sand Formation				384.50	14.46	398.96	22.50	0.0	0.0
25	23.0	24.0	17.0	0.000		Earnley Sand Formation				401.50	13.57	415.07	23.50	0.0	0.0
26	24.0	25.0	17.0	0.000		Earnley Sand Formation				418.50	12.74	431.24	24.50	0.0	0.0
27	25.0	26.0	17.0	0.000		Earnley Sand Formation				435.50	11.99	447.49	25.50	0.0	0.0
28	26.0	27.0	17.0	0.000		Earnley Sand Formation				452.50	11.29	463.79	26.50	0.0	0.0
29	27.0	28.0	17.0	0.000		Earnley Sand Formation				469.50	10.65	480.15	27.50	0.0	0.0
30	28.0	29.0	17.0	0.000		Earnley Sand Formation				486.50	10.06	496.56	28.50	0.0	0.0
31	29.0	30.0	17.0	0.000		Earnley Sand Formation				503.50	9.52	513.02	29.50	0.0	0.0
32	30.0									512.00	0.00	512.00	0.00	0.0	0.0
33	0.0									512.00	0.00	512.00	0.00	0.0	0.0
34	0.0									512.00	0.00	512.00	0.00	0.0	0.0
35	0.0									512.00	0.00	512.00	0.00	0.0	0.0
36	0.0									512.00	0.00	512.00	0.00	0.0	0.0
37	0.0									512.00	0.00	512.00	0.00	0.0	0.0
38	0.0									512.00	0.00	512.00	0.00	0.0	0.0
39	0.0									512.00	0.00	512.00	0.00	0.0	0.0
40	0.0									512.00	0.00	512.00	0.00	0.0	0.0