



Geo-Environmental

GROUND APPRAISAL REPORT

for the land at

ALLINGTON LANE (PHASE 3), FAIR OAK

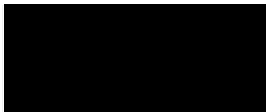
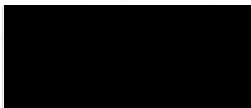
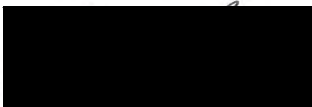
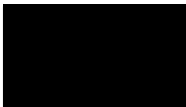
HAMPSHIRE, SO50 7DB

on behalf of

VISTRY SOUTHERN





Report:	GROUND APPRAISAL REPORT
Site:	ALLINGTON LANE (PHASE 3), FAIR OAK, HAMPSHIRE, SO50 7DB
Client:	VISTRY SOUTHERN
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EXECUTIVE SUMMARY		
Site Details	Site Address	Allington Lane, (Phase 3), Fair Oak, Hampshire, SO50 7DB
	National Grid Reference	448762, 118006
	Site Area	1.12Ha (approx.)
	Form of Development	The proposed development, Phase 3, is understood to comprise the construction of residential dwellings with associated private gardens, areas of soft landscaping, car parking, access road and other associated development infrastructure.
Encountered Conditions	Scope of works	An intrusive investigation was required to confirm the ground and groundwater conditions and to support the development of an updated geo-environmental assessment pertaining to the site in relation to the proposed development.
	Ground Conditions	The ground conditions encountered within the exploratory holes undertaken were broadly consistent with those anticipated, i.e. a thickness of Made Ground or Topsoil overlying the Wittering Formation, as reported from previous third party investigations on the site, albeit that deep Made Ground as recorded in one phase of third party investigation was not encountered.
	Groundwater	Groundwater was not encountered within any of the exploratory holes during the intrusive investigation works. A groundwater monitoring well was installed within WS201. Three return spot groundwater monitoring rounds have been completed between March and April 2023 with standing water recorded between depths of 1.00m bgl and 1.10m bgl. Previous third-party investigations have also previously reported the presence of groundwater. The Omnia Phase I-II report, reported groundwater encountered between depths of 0.50m and 4.00m bgl within most of the investigation locations. Subsequent return monitoring recorded standing water between 0.15m and 2.85m bgl. Monitoring was undertaken during October 2020. The Omnia geotechnical letter reported groundwater being encountered within a number of investigation locations during the intrusive investigation works at depths of between 1.00m and 7.20m bgl rising to between 0.80m and 6.70m bgl after 20 minutes.
Environmental Considerations	Human Health	A previous third-party report identified an elevated concentration of Beryllium within shallow soils in the vicinity of WS101. Therefore, as part of the supplementary investigation, a shallow hand pit targeted this area of the site, with all collected samples being submitted for analysis for Beryllium, along with other commonly occurring brownfield contaminants. Soil samples were also collected from the broader site, to include areas highlighted as not previously being tested, the southern and eastern portions of the site, and included analysis of Topsoil, Made Ground and natural soils to supplement the data obtained as part of the previous third-party investigation. In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria, for a residential with plant uptake use, where available. All of the results were noted to be below the respective assessment criteria, therefore further assessment was not considered necessary. In addition, samples submitted for laboratory testing were also screened for asbestos. Geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos. Nonetheless, the absence of asbestos in samples analysed does not mean that asbestos might not be present at locations remote from exploratory holes.

**EXECUTIVE SUMMARY**

		As such, it is considered that remedial action would not be warranted to protect end users of the proposed residential development based on the findings of the investigations undertaken. Due to the presence of buildings on the site and the potential for asbestos to be present within these buildings (a building survey should be undertaken prior to demolition). It is recommended that following the demolition of the current buildings supplementary investigation works are undertaken to confirm the above assessment.
	Groundwater	Given the ground conditions beneath the site it is considered that the groundwater encountered represents discontinuous perched groundwater of limited volume. Therefore, any impacted shallow groundwater is not considered to represent a significant risk to groundwater at depth given that near surface strata included predominantly clay soils which would act as an aquitard with respect to vertical migration. It is considered that continuous groundwater has not been identified on site, and that the identified perched waters do not represent a viable migration source. Therefore, at present no remedial measures are recommended in respect to groundwater.
	Radon Gas	No radon protection measures are required.
	Ground Gases	A gas risk assessment has been undertaken for the site utilising both previous third-party monitoring data and monitoring data obtained during the recent intrusive investigation works by Geo-Environmental. Based the gas risk assessment, in relation to the proposed development, that the site is considered a Characteristic Situation 1 (BS/CIRIA) and Green (NHBC) classification, with no requirement for gas protection measures.
	Built Environment	The results of the relevant chemical analyses indicate that all results were below the specific thresholds. Therefore, it is considered that specific protection measures are unlikely to be required for potable water supply based on the information available.
	Waste Disposal	The soil analyses from the site were assessed using HazWasteOnline software. None of the samples assessed were indicated to comprise properties attributable to hazardous waste.
Further Action: - Following demolition of the buildings on the site, further supplementary investigations works are recommended to ensure any asbestos that may be present within the current buildings on site has not been deposited within the shallow soils in the vicinity of the buildings; - A discovery strategy must be maintained during development such that any abnormal conditions (geotechnical or potential contamination) are identified, the discovery strategy should be enacted and their potential impact on the proposed development assessed prior to determining any potential mitigation measures.		
<i>This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report ref. GE21355-GARv2-APR23.</i>		



1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited, (Geo-Environmental) was instructed by Vistry Southern, (the Client), to undertake an investigation of the geo-environmental factors pertaining to the proposed development at Allington Lane (Phase 3), Fair Oak, Hampshire, SO50 7DB (herein referred to as 'the site'). The site's location is presented in Figure 1.

1.2 Form of Development

The proposed development, Phase 3, is understood to comprise the construction of residential dwellings with associated private gardens, areas of soft landscaping, car parking, access road and other associated development infrastructure.

1.3 Objectives

The investigation was to comprise an intrusive investigation undertaken into the geo-environmental conditions pertaining to the site.

The objective of the investigation and subsequent assessments was to evaluate the risks posed to the proposed redevelopment, adjacent land uses and the wider environment, in the context of likely planning requirements, immediate liabilities under the Environmental Protection Act 1990 and risks posed to Controlled Waters under the Water Resources Act from the current status of the site and in line with the current redevelopment.

1.4 Standards and References

Where practicable, the ground investigation and subsequent geotechnical and environmental assessments were undertaken in accordance with the following documents and guidance.

- National Planning Policy Framework, July 2021;
- Land Contamination Risk Management (LCRM), updated April 2021;
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004; (withdrawn)
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930:2015+A1:2020 - Code of Practice for Site Investigations, BSI 2020;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC 10627-R01(04)- Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (2007);
- BS8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings;
- BS3882:2015 Specification for topsoil and requirements for use, BSI 2015;
- BS8601:2013 Specification for subsoil and requirements or re-use, BSI 2013.

1.5 Conditions

This report does not purport to be a "Geotechnical Design Report" as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004) and some of the data used to support this preliminary geotechnical assessment may not be fully compliant with that design code. It is considered possible that further detailed ground investigations could be required to facilitate the detailed geotechnical design process and should be carried out on



a structure specific basis if necessary.

The desk study data where obtained/reviewed for the site or where presented as part of third party reports is assumed to be factually correct and up to date at the point of purchase. No liability is taken for any omissions or inaccuracies in the data presented. It must also be noted that changes to the desk study data may occur following the production of this report, Geo-Environmental accepts no liability where this subsequently affects the assessment presented herein.

The data collected from the investigations have been used to provide an interpretation of the geotechnical and/or environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that either have not been revealed in the available records, or that occur between or under points of physical investigation, or that result from updates to desk based data/third party investigations utilised subsequent to that presented herein or reviewed at the time of writing which may in turn alter the presented assessment. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

It must be noted that the findings and assessment presented herein are based on the ground and groundwater conditions as encountered at the time of investigation within the investigation positions undertaken and any associated testing and monitoring. The ground by its very nature is variable and the engineering properties of soils can vary over time, such as due to changes in soil moisture content, disturbance and similar factors. Similarly, groundwater conditions can and do vary over time. As such, if conditions are encountered which differ from those described herein, the Client or their appointed representative, e.g. contractor, must seek advice from a Geotechnical Engineer at the earliest practicable opportunity. It is possible that this could result in changes to the assessment presented herein.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. The absence of asbestos noted during the site walkover or within any soil samples analysed does not guarantee the absence of asbestos within buildings, within or bonded to concrete, as discrete burials, or within the soils mass elsewhere within a site. This report should not be taken as any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever express or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.



2.0 SITE CONTEXT

2.1 Previous Reports

The Phase 3 site area has been the subject to a Phase I-II Geo-Environmental Site Assessment undertaken by Omnia Environmental Consulting, ref. A11463, dated November 2020; a Geotechnical Ground Investigation Letter Report, ref. A11609/210809/L1, dated 23rd August 2021, undertaken by Omnia Environmental Consulting; and a Ground Investigation Report (Geotechnical), undertaken by Geo-Environmental Services Ltd, ref GE21296/GIR/JAN23, dated 27th January 2023.

A brief summary of the findings deemed relevant to this phase of geo-environmental investigation are presented below. It is assumed that the third-party information is factually correct, and that Vistry Southern has reliance on the data included within these reports.

Geo-Environmental accepts no liability for errors or omissions within the third-party reports, nor for implications of any updates in the background datasets since the third-party desk study was undertaken. For further information reference should be made to the Phase I-II Geo-Environmental Site Assessment, November 2020, the Geotechnical Ground Investigation Letter Report, August 2021 and the Ground Investigation Report (Geotechnical), January 2023.

Phase I-II Geo-Environmental Site Assessment

A desk study was undertaken as part of the Phase I-II Geo-Environmental Site Assessment report for the Allington Lane Phase 3 development area, which included a review of historical maps, an environmental database search, a site walkover and production of a preliminary conceptual site model.

At the time of the site walkover, November 2020, the northern portion of the site comprised a residential house, garage, barn with adjoining stable and former green house. The southern portion of the site comprised an open grassed field. Access was not permitted within the private residential house as it was occupied at the time of the walkover, nor was access possible within the former greenhouse.

The wooden barn and former greenhouse were both noted to be in a poor state of repair. The barn was noted to store hay, wood, plastic and metal pipe work, small machinery equipment, and approximately 5No. 20-25 litre plastic containers which were not noted to contain fuel or oil. In addition, 3No. approximately 200 litre steel drums were found to be present to the north east of the barn within dense vegetation, the drums were noted to be in a poor state of repair. A further 200 litre steel oil drum in a poor state of repair was also found within vegetation located in the north east of the site. However, there was no visual or olfactory evidence of contamination noted in the vicinity of this drum.

Given the age of the buildings present on site it was considered that asbestos could potentially be present within the buildings. As such, an asbestos survey of the buildings was recommended to be undertaken prior to their demolition.

The desk study data identified the site's anticipated underlying geology to comprise the bedrock geology of the Wittering Formation. The bedrock geology was identified as being a Secondary 'A' Aquifer and the site was not shown to be located within a Source Protection Zone (SPZ) for groundwater.

The nearest surface water feature was identified as Quobleigh Pond and its unnamed tributary located c.53m to the south of the site.

The study site was indicated as being located within the River Itchen catchment area. The site was reported to be located within a surface water flooding risk area for a 1 in 30 year event. The site was also indicated to be located within an area susceptible to groundwater flooding with a risk classification between moderate to high based on a risk assessment of 1 in 100 year return period.



Historical maps dating from 1868 to 2020 were obtained and reviewed as part of the desk study. The site was first shown, on the 1868 mapping, as open ground bounded by a mix of open ground, woodland and Oak Lodge a residential property. A clay pit was noted to be present c.100m to the west of the site with Quobleigh Pond noted to be present c.100m south of the site. On the 1957 mapping a small building was noted to be present immediately adjacent to the northern boundary of the site. The 1962 mapping showed a large rectangular glass roofed building along the northern western boundary of the site. In addition, a refuse tip was shown to be present 250m north east of the site. A rectangular building was shown to be present in the north west of the site on the 1964 mapping. This mapping also shown Oak Lodge to be denoted at a convent. The land to the north of the study site was denoted as Allington Nurseries on the 1981 mapping. Additional buildings were noted to be present on the study site on the 2001 mapping and the site was shown to be labelled as Treetops Nurseries comprising 4No. buildings on the 2003 mapping.

Eight historical land uses were identified within 250m of the site including the on-site nursery, off-site unspecified pit, unspecified works, unspecified factory, a boat house, and a refuse heap. No tanks or petrol stations were identified within 250m of the site. Three industrial land uses were identified within 250m of the site comprising a sub-station and two car repair centres.

Table 2.1 summarises the potential sources of contamination which were identified by Omnia and associated recommendations.

Potential Source	Recommendation
Made Ground associated with existing buildings and infrastructure onsite	Requires investigation.
Localised spills associated with historic metal drums onsite	Requires investigation.
Onsite former Nursery	Requires investigation.
Electrical Sub-station – 40m south west	Considered unlikely to impact the site due to distance and low mobility potential of contaminants.
Vehicle repair – 211m south	Considered unlikely to impact the site due to distance and low mobility potential of contaminants.
Unspecified Pit – 96m south west	Gas risk considered to require investigation.
Boat House – 99m east	Considered that any limited contamination associated with this source would have dissipated over time so unlikely to be a risk to the site.
Unspecified Factory – 113m and 136m south west	Considered unlikely to impact the site due to distance and low mobility potential of contaminants.
Clay Pit dated 1868-1909 – 100m west	Pit appears to have been infilled prior to 1909, therefore given age and distance not considered a risk to the site.
Brickworks – 150m north	Requires investigation.
Refuse Heap – 225m north east	Refuse heap not mapped after 1968 indicating removal, given distance and limited mobility of contaminants considered unlikely to be a risk to the site.
Electrical Sub-station – 238m and 239m north east	Considered unlikely to impact the site due to distance and low mobility potential of contaminants.

Table 2.1 Summary of Omnia Phase I assessment

The desk study noted that the site was recorded as being within an area classified as a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Following an update to the BGS Radon background data (December 2022), Geo-Environmental was commissioned by Vistry to obtain a site specific Radon Report for the site to establish whether this classification had changed. The site specific Radon Report confirmed



the site to be located within a lower probability radon area where <1% of homes are estimated to be at or above the Action Level, therefore specific radon protection measures are not required in new dwellings. This site specific Radon Report is presented within Appendix B.

A number of potential on and offsite sources of contamination were identified as part of the desk study including the site's recent onsite land use as a nursery.

The intrusive investigation works reported within the Omnia report were undertaken in October 2020 and comprised 10No. window sampler boreholes, 4No. trial pits and 2No. hand excavated pits.

Ground conditions encountered comprised Made Ground and Topsoil directly underlain by the Wittering Formation. Made Ground was encountered within three locations in the north of the site up to a depth of 0.35m bgl. The encountered Made Ground was generally found to comprise a soft brown sandy gravelly CLAY with variable silt content with brick and asphalt inclusions.

Topsoil was encountered across the site. Soils inferred to be of the Wittering Formation were encountered either beneath the Topsoil or Made Ground to the full extent of the investigation, 5m bgl.

Groundwater was encountered between depths of 0.50m and 4.00m bgl within the majority of the investigation locations. Subsequent groundwater monitoring found groundwater between depths of 0.15m and 2.85m bgl. Monitoring was undertaken during October 2020. Water within WS105 was found to be at surface during one monitoring round. It was considered that due to the cohesive soils encountered on site the boreholes were acting as a sump for surface water through flow. Heavy rainfall was recorded in October 2020 and it was therefore considered that the monitored groundwater levels were not representative of true groundwater depth.

Soil samples were collected from across the site as follows: 2No. sample from the Topsoil encountered within the hand pits located in the vicinity of the steel drums observed during the site walkover submitted for testing for BTEX, TPH and VOC analysis; 6No. samples from WS101-WS105 (all located in the northern and central portion of the site), from primarily the Made Ground and Topsoil submitted for a general brownfield suite of testing.

The report suggests that 2No. samples were submitted for pesticide and herbicide laboratory testing, however only one set of results was presented within the laboratory certificate of analysis, WS102 at 0.1m-0.3m bgl, all determinand concentrations were below the laboratory detection limit.

An elevated concentration of Beryllium was identified within one sample from WS101 within the Made Ground located in the north of the site. Further sampling and analysis in the vicinity of WS101 was recommended to understand the extent of any contamination.

No asbestos containing materials were detected during the sample analysis and none were observed in the exploratory holes. However, it was noted that asbestos and asbestos containing material may be present within the buildings located on the site.

A total of 3No. gas monitoring rounds were completed within 4No. monitoring wells installed within WS101, WS105, WS107 and WS109 in October and November 2020. The monitoring undertaken recorded methane up to a maximum concentration of 0.1% and carbon dioxide up to a maximum of 2.5%. Negative gas flow rates were recorded within three monitoring locations with a maximum negative flow rate of -26.0l/hr recorded within WS101 on 21st October 2020.

The report notes that during the monitoring undertaken in October and November 2020 groundwater levels were consistently high and recorded above the response zone of the boreholes. Therefore the boreholes were bailed prior to gas monitoring to remove groundwater.



The gas risk assessment concluded that the development was classified as Characteristic Situation 1 (CS1) and therefore no special ground gas protection measures were required.

The Phase I-II Report was submitted to the Local Authority for approval, the Local Authority made the following comments:

- Only 6No. samples were analysed for chemical testing. These samples were, in the main, collected from between 0.1-0.3m bgl from either the Made Ground or the Topsoil. All of the samples analysed were located within the western portion of the site only. There is no testing of soils in the eastern portion of the site and little (possibly 1) to no testing of naturally occurring soils beneath either the Topsoil or Made Ground. Based on the scale of the proposed development, the sensitive end use of the development and the identified onsite sources of potential contamination, soil sampling and laboratory analysis from across the entire site is required from a variety of depths such that all encountered material beneath the site is tested (Made Ground, Topsoil and natural soils) to demonstrate that existing material are suitable for the proposed end use.*
- The site assessment report states that 2No. samples were analysed for pesticides and herbicides, however the laboratory test results show that only 1No. sample from WS102 at 0.1-0.3m bgl was analysed for pesticides and herbicides.*
- A risk from ground gas was identified from potential offsite sources. 4No. monitoring wells were installed across the site and monitored on 3 separate occasions. Based on the sensitive end use of the proposed development it is generally expected to see 6No. monitoring rounds. In addition, the 3 monitoring rounds that were undertaken were undertaken when atmospheric pressure was either rising or steady. No monitoring rounds were undertaken during periods of falling pressure and as such a worst case scenario has not been monitored. Additional gas monitoring is required so that a total of 6No. monitoring rounds are completed and so monitoring can be undertaken during periods of falling atmospheric pressure so that a worst case scenario can be captured.*
- Within the conclusion section of the site assessment report it is stated that certain areas of the site were inaccessible during the time of the intrusive investigation works (under existing buildings) and that further site investigation would be required following the demolition of these buildings.*
- Further investigation works are also recommended to be undertaken in the vicinity of WS101 to establish the extend of the identified Beryllium contamination.*
- An asbestos survey is also recommended to be undertaken prior to the demolition of the existing buildings on site.*

Geotechnical Ground Investigation Letter Report

In June and July 2021 Omnia carried out further site investigation works. These works comprised the drilling of 5No. cable percussive boreholes to a maximum depth of 22.50m bgl, coupled with laboratory testing.

General ground conditions were reported as Made Ground and Topsoil overlying the Wittering Formation. Made Ground was recorded within CP103-CP105, located within the western portion of the site where the current on site buildings were located. Made Ground was generally encountered between 0.40m and 0.50m in thickness but was reportedly encountered up to a maximum depth of 3m bgl within CP105. The encountered Made Ground was generally described as, soft brown slightly gravelly CLAY with occasional brick and concrete.

Groundwater was encountered within all of the investigation locations during these intrusive works and was recorded between depths of 1.00m and 7.20m bgl rising to depths of 0.80m and 6.70m bgl after 20 minutes.

This investigation did not include any chemical analysis of soils or waters encountered.

Ground Investigation Report (Geotechnical) – Geo-Environmental

Geo-Environmental undertook an intrusive geotechnical investigation across the site in November 2022. These works comprised 11No. machine dug trial pits coupled within in-situ and laboratory geotechnical testing.

General ground conditions were reported as comprising a mantle of Topsoil and/or Made Ground overlying the Wittering Formation with lignite encountered within a number of locations (TP01, TP01a, TP02 and TP10).

Made Ground was encountered within 2No. locations, TP01 and TP08. These trial pits were located within the northern portion of the site. Made Ground was encountered to the full extent of TP01, 1.30m bgl, the pit was terminated due to the presence of plastic sheeting and shingle indicating the possible presence of a service. The Made Ground within TP01 was generally found to comprise, brown and orangish brown slightly sandy slightly gravelly CLAY with frequent rootlets. The Made Ground encountered within TP08 was encountered to a depth of 0.25m bgl and found to comprise, dark brown very sandy GRAVEL with occasional brick, tile and glass.

Groundwater was encountered within the majority of the investigation locations between depths of 0.20m and 3.50m bgl. It was considered likely that the shallow groundwater encountered represented perched water rather than a continuous groundwater body. In addition, it was also considered possible that some of the shallow water inflows might have been associated within redundant drainage, e.g. land drains or drainage runs associated with the site's historic use.

The investigation did not include any chemical analysis of encountered soils or waters.

2.2 Site Description

A detailed site walkover survey was undertaken on the 22nd November 2022, with site photographs presented within Appendix A.

The site comprised a rectangular shaped parcel of land off Allington Lane located at NGR448762, 118006 with an approximate area of c.1.12Ha. The site was bordered by residential estates to the north and south.

At the time of the walkover, November 2022, the site comprised hard landscaping and an abandoned residential property in the western portion of the site and soft landscaping to the west. This plot of land is understood to have been used as the site office during Phase 2 development. Pallets of bricks and other materials and fencing remained in stockpiles present within the central portion of the site.

A boat was present within the soft landscaping to the east of the house present on site.

A derelict greenhouse was present along the northern site boundary within the eastern portion of the site.

Overhead services cross cut the western site boundary and also cut through the centre of the site along a N-S trend.

2.3 Geology

British Geological Survey (BGS) mapping indicated the site to be being underlain by bedrock geology of the Wittering Formation. In addition, given that parts of the site have been developed it is considered likely that a mantle of Made Ground may be present overlying these natural strata where ground levels have been subject to any change in relation to the existing or historic uses of the site.

BS5930:2015 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material. In addition, on



sites which have undergone several phases of historic development it is not uncommon for asbestos to be present within Made Ground soils.

The **Wittering Formation** is the lowest unit of the Bracklesham Group and was deposited by intertidal sedimentation during the Eocene. It comprises mainly brown grey laminated sandy clay and clayey sand with beds of green to brown glauconitic sand. Lignite beds may be encountered towards the base of the formation. Lignite is present sporadically within the Wittering Formation and can vary from a peaty material to a charcoal-like brittle material. Lignite is not present as a continuous layer, but as sporadic lenticular deposits or disseminated through the soil mass and as such, delineation of lignite extent can be very difficult to achieve.

2.4 Hydrogeology

The bedrock geology of the Wittering Formation was classified as a Secondary 'A' Aquifer.

Secondary 'A' Aquifer are defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

The site is not shown to be located within a Groundwater Source Protection Zone.

No surface water features were identified on site, the nearest surface water feature was located 53m south of the site.



3.0 GROUND INVESTIGATION

3.1 Scope of Works

The scope of the works undertaken at the site to date comprised:

- Undertake a pre-dig buried utilities survey of the proposed exploratory hole locations using radio-detection and ground penetrating radar techniques. The survey included capture of co-ordinates and levels of exploratory holes using GPS surveying where possible;
- Construction of 3No. dynamic sampler boreholes (WS201-203) to a depth of 5.0m bgl, using a self-propelled track mounted rig;
- Construction of 12No. hand dug pits to a depth of up to 1.0m bgl. 6No. to be dug in the proximity of trial pits excavated during a previous phase of investigation (Ref:GE21296/GIR/JAN23);
- Installation of combined ground gas and groundwater monitoring well within WS201 to facilitate return monitoring;
- Ground gas monitoring (spot monitoring) of the well installations on three occasions over a 2 month period to add to the three visits previously undertaken by a third party in order to comply with BS8485. Wherever possible, the monitoring was targeted to periods of low or rapidly falling atmospheric pressure;
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants on selected samples of soil recovered from exploratory holes and groundwater recovered from monitoring wells;
- Provision of a Ground Appraisal Report.

3.2 Investigation Strategy

The positioning of exploratory holes was determined on site to provide general coverage and to target specific areas whilst working within access restrictions associated with the presence of buildings, services and current site uses. Table 3.1 sets out the investigation strategy adopted.

Area of Concern	Investigation	Positions
General ground conditions	Exploratory holes located across the site, coupled with sampling and laboratory analysis.	All
Potential contamination of near surface soils	Exploratory holes located to provide coverage of the site, coupled with sampling and laboratory analysis.	All
Potential contamination of near surface soils located in the southern and eastern portion of site	Exploratory holes located in the southern and eastern portion of the site to provide coverage of previously untested areas, coupled with sampling and laboratory analysis.	HP01, HP03, HP05, HP07, HP08, HP10, HP11, HP12, WS202 and WS203
Previously identified elevated Beryllium within Made Ground soils	Exploratory holes located to target area where elevated concentration identified, coupled with sampling and laboratory analysis.	HP06
General gassing regime and groundwater levels across site	Spot monitoring within well located on the site to supplement the already collected third-party data.	WS201

Table 3.1 Summary of the Investigation Strategy

Soil samples were collected and placed into amber jars and cool boxes on site for transit to the office, where they were stored under chilled conditions (<4°C) prior to final transportation in cool boxes to the laboratory by their in-house courier. Both the geotechnical and contamination testing were undertaken by UKAS accredited laboratories. Contamination testing of soil samples was also undertaken in accordance with accredited MCERTS protocols. Samples were stored in temperature controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with laboratory's protocols.



4.0 ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the physical investigation of the site is presented in the following sections.

For further details of the ground conditions, reference should be made to the exploratory hole logs and in situ testing presented in Appendix C, the geochemical testing results in Appendix D and the gas and groundwater monitoring results in Appendix E.

The physical ground investigation works were undertaken on 7th March 2023.

Unless stated otherwise, all depths are reported as metres below ground level (m bgl).

4.1 Soils

With reference to British Geological Survey (BGS) mapping and previous investigations undertaken by Omnia (Ref: A11463/1.0), the geology of the site was anticipated to comprise a mantle of Topsoil over clay, sand and gravel of the Wittering Formation. In addition, lignite is present sporadically within the Wittering Formation and can vary from a soft, compressible peaty material to a charcoal-like brittle material. Lignite is not present as a continuous layer, but as sporadic lenticular deposits and as such, delineation of lignite extent can be very difficult to achieve.

The ground conditions encountered during all of the intrusive investigation works undertaken were broadly consistent with the anticipated published sequence of strata. In summary, ground conditions typically comprised a thickness of Made Ground and/or a mantle of Topsoil overlying soils inferred to be clay and sand strata of the Wittering Formation. Deep Made Ground as reported by Omnia as part of previous third-party investigation on site was not encountered.

A summary of the encountered ground conditions is presented in Table 4.1.

Top (m bgl)	Base (m bgl)	Geology	Positions
0.00	0.05 – 0.50	TOPSOIL: Turf over dark brown slightly sandy clayey SILT. Sand is fine. Abundant 1-2mm rootlets.	All (Except WS201)
0.0 - 0.10	0.30 - 0.50	MADE GROUND: Dark brown slightly clayey very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to angular brick, concrete and tarmacadam; Black and orangish brown to brown very sandy GRAVEL. Sand is fine. Gravel is fine to coarse subrounded to subangular flint, brick and tarmacadam.	WS201 & HP02
0.20-0.50	5.00 (Base of hole)	WITTERING FORMATION: Soft orangish brown and grey mottled slightly sandy CLAY. Frequent 1-5mm roots; Firm becoming stiff orangish brown and grey mottled sandy CLAY with abundant ferruginous staining; Stiff bluish grey sandy CLAY. <u>Potential lignite described as:</u> Lignite tentatively described as fine to medium subrounded incompressible fragments disseminated within the soil mass.	All HP02

Table 4.1 Summary of Ground Conditions

The Topsoil and Made Ground were underlain by the Wittering Formation to the full extent of the exploratory holes, i.e. 5.00m bgl. The Wittering Formation was generally found to comprise soft to stiff orange and grey mottled CLAY with varying proportions of sand and was generally noted to increase in strength with depth.



For a more detailed description of the encountered ground conditions, reference should be made to the preliminary exploratory hole logs for presented within Appendix A.

For further information regarding the geotechnical properties of the soils beneath the site, reference should be made to Report Ref: GE21296/GIR/JAN23.

4.2 Groundwater

Groundwater was not encountered within any of the exploratory holes during the intrusive investigation works. However, it was encountered during the geotechnical intrusive investigation works undertaken by Geo-Environmental in November 2022, as reported in GE21296/GIR/JAN23. Whilst reference should be made to that report for further details, a summary is provided in Table 4.2 below.

Location	Depth to water (m bgl)
TP01	Very fast water ingress from the side of the pit at 0.80m bgl
TP01a	Very fast water ingress from the side of the pit at 0.90m bgl
TP04	Water seepage on backwall at 0.20m bgl
TP05	Water seepage at 2.20m bgl
TP06	Water seepage at 1.40m bgl
TP07	Water seepage on backwall at 1.70m bgl
TP08	Seepage from 1.1m on both sides of the pit and 2.10m on backwall.
TP09	Water seepage on Blackwall at 2.90m bgl
TP10	Fast water ingress on backwall from 0.20m bgl.
TP11	Water seepage through at 3.50m bgl

Table 4.2 Summary of encountered Groundwater during November 2022 intrusive investigation works

With regards to the water encountered in TP01 and TP01a, it is considered that this was more likely to be water perched at shallow depth, e.g. over the membrane in TP01, rather than groundwater. In addition, it is possible that some of the shallow water inflows might have been associated with redundant drainage, e.g. land drains or drainage runs associated with the site's historic uses. As such, water could be encountered at shallow depth elsewhere on the site.

It is considered likely that the water ingresses observed from 1.40-3.50m bgl are representative of perched water within more granular strata in the soil rather than a continuous shallow groundwater body. However, shallow water is likely variable at other times of the year.

A groundwater monitoring well was installed within WS201. Three groundwater monitoring rounds have been completed and the results of the groundwater monitoring are summarised in Table 4.3 below.

Location	Groundwater depth (m bgl)		
	13/03/23	27/03/23	12/04/23
WS01	1.10	1.00	0.84

Table 4.3 Summary of groundwater depth monitoring results

Previous third-party investigations have also previously reported groundwater. The Omnia Phase I-II report, reported groundwater encountered between depths of 0.50m and 4.00m bgl within most of the investigation locations. Subsequent return groundwater monitoring recorded groundwater between 0.15m and 2.85m bgl. Monitoring was undertaken during October 2020.

The Omnia geotechnical letter reported groundwater being encountered within a number of investigation locations during the intrusive investigation works at depths of between 1.00m and 7.20m bgl rising to between 0.80m and 6.70m bgl after 20 minutes.



It should also be noted that changes in groundwater levels do occur for a number of reasons including seasonal effects and variations in drainage. Such fluctuations may only be recorded by the measurement of the groundwater level within a series of standpipes or piezometers installed within appropriate response zones.

4.3 Obstructions

No obstructions were encountered during the investigation works undertaken. No services were identified by service clearance work. However, a ruptured water pipe was observed in along the northern site boundary. Therefore, services are known to be present beneath the site, and the presence of obstructions elsewhere on site cannot be ruled out.

4.4 Chemical Analysis

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the third-party Phase I-II Geo-Environmental Site Assessment Report and supported by CLR publication CLR8 and Environment Agency R&D66 publication.

The testing rationale included sampling and analysis to provide a general coverage of the subject site. Testing was undertaken for a broad range of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH, asbestos and pesticides.

4.5 Ground Gases and Vapours

Return 'spot' ground gas monitoring has been undertaken on 3No. occasions, on 13th March, 27th March and 12th April 2023 as part of the investigation, within the well installed within dynamic sampler borehole WS201, to supplement the previous ground gas monitoring undertaken by Omnia. Whilst it was initially planned to monitor the wells installed by Omnia, these could not be located, possibly due to site activities following their installation.

The spot monitoring undertaken has not detected the presence of methane to date. Carbon dioxide has been detected in the range of 0.0% to 0.4% and oxygen in the range 18.4% to 20.1%. A positive borehole flow has only been recorded on a single occasion as part of the 2023 monitoring 27th March 2023, 2.0l/hr within WS201. Borehole flow rates have not been recorded during any other monitoring visits, VOCs were recorded up to 3.4ppm during the monitoring and atmospheric pressure was recorded in the range of 983mb to 1022mb during the visits undertaken. The monitoring included measurements during low atmospheric pressure.

The implications of the gas monitoring data are considered in Section 5.2 of this report.



5.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) has been undertaken incorporating the results of the third-party desk study and Geo-Environmental ground investigation, the findings of which are presented in the following sections.

Site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

5.1 Outline Risk Assessment

A previous third-party report identified an elevated concentration of Beryllium within shallow soils in the vicinity of WS101. Therefore, a shallow hand pit targeted this area of the site, with all collected samples being submitted for analysis for Beryllium, along with other commonly occurring brownfield contaminants.

Soil samples were also collected from the broader site, to include areas highlighted as not being previously testing, the southern and eastern portion of the site, and included analysis of Topsoil, Made Ground and natural soils to supplement the data obtained as part of the previous third-party investigation. The samples were submitted for analysis for a suite of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH, asbestos and Pesticides.

A ground gas monitoring well was installed with WS201 to supplement the previously collected ground gas monitoring data collected by a third-party. Principal gases of concern comprised methane, carbon dioxide, oxygen and VOC together with parameters such as flow rate. Radon was assessed via a site specific Radon report.

The investigation did not encounter conditions that warranted a revision of the preliminary Conceptual Site Model.

5.2 Ground Gases vs. End Users

Ground gas monitoring was undertaken as part of the previous third-party investigations within monitoring wells installed across the site. These reports are assumed to be factually correct for the purpose of the review and Geo-Environmental accepts no liability for errors within these reports, or within any subsequent assessment which relies upon any such information.

A total of 3No. gas monitoring rounds were completed as part of the third-party monitoring within 4No. monitoring wells installed within WS101, WS105, WS107 and WS109 in October and November 2020. The monitoring undertaken recorded methane up to a maximum concentration of 0.1% and carbon dioxide up to a maximum of 2.5%. Negative gas flow rates were recorded within three monitoring locations with a maximum negative flow rate of -26.0l/hr recorded within WS101 on 21st October 2020.

In addition, one ground gas monitoring standpipe (WS201) was installed by Geo-Environmental during the 2023 investigation works to a depth of up to 3m bgl. Return 'spot' ground gas monitoring has then subsequently been undertaken on 3No. occasions, on 13th March, 27th March and 12th April 2023 within the well installed within WS201.

The spot monitoring undertaken by Geo-Environmental with the monitoring well WS201, has not detected the presence of methane to date. Carbon dioxide has been detected in the range of 0.0% to 0.4% and oxygen in the range 18.4% to 20.1%. A positive borehole flow has only been recorded on a single occasion as part of the 2023 monitoring 27th March 2023, 2.0l/hr within WS201. Borehole flow rates have not been recorded during any other monitoring visits, VOCs were recorded up to 3.4ppm during the monitoring and atmospheric pressure was recorded in the range of 983mb to 1022mb during the visits undertaken.

A Tier 1 Ground Gas Risk Assessment (GGRA) incorporating the results of the desk study and ground investigation



was undertaken, the findings of which are presented in the following sections.

Recommendations on acceptable gas concentrations recorded in the ground beneath or adjacent to buildings are given in a variety of publications. For the purpose of this assessment, the results have been evaluated in terms of British Standard BS8485, 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings' (2019); CIRIA C665, 'Assessing risks posed by hazardous ground gases to buildings' (2007) and NHBC report 10627-R01(04) 'Guidance on evaluation of development proposals where methane and carbon dioxide are present' (2007).

In relation to the positive borehole flow recorded in WS201 on 27th March 2023 a review of the depth of groundwater within the well has been undertaken. Groundwater was recorded at 1.0m bgl. The response zone of the borehole is between 1.00m and 3.00m bgl. Therefore, the response zone during this monitoring visit was fully submerged.

The sole source of gas in the headspace of a standpipe within a fully submerged response zone is gases dissolved in groundwater. As the gas partitions out of the groundwater to within the confined headspace, the gas flow rate will initially increase within the confined headspace. This initial spike in gas flow rate occurs within the confined headspace (sealed monitoring well) only. Over time this will equalise through diffusive migration along concentration gradients within the groundwater. The groundwater contained within the standpipe above the response zone will remain immobile during this period, and as such the equalisation will take place over an extended period of time. Within the soils beneath the site any gases will partition in and out of groundwater within the open soil structure and will form a diffusive continuum between the surface of the groundwater and the ground surface meaning that gas flow rates are not present within the soils. As such it is considered that the recorded positive flow rate is not representative of the flow rate of any gases present within the soils beneath the site.

Negative flow rates were recorded by Omnia within three of the four monitoring wells during the gas monitoring undertaken in October and November 2020. Table 5.1 below provides a summary of the October/November 2020 Omnia gas monitoring results.

Location	Date	CH4 (% v/v)	CO2 (% v/v)	O2 (% v/v)	Flow Rate (l/hr)	Atmospheric Pressure (mB)	Groundwater Depth (m bgl)
WS101	21/10/2020	0.1	2.4	19.8	-26.0	996	0.20
	29/10/2020	<0.1	2.5	18.8	-26.0	1013	0.20
	04/11/2020	<0.1	1.3	20.0	1.1	1033	0.45
WS105	21/10/2020	<0.1	0.3	20.8	-4.2	997	Surface
	29/10/2020	0.1	1.6	20.1	-16.0	1011	0.15
	04/11/2020	<0.1	1.9	19.1	-19.0	1032	1.03
WS107	21/10/2020	0.1	1.7	19.6	-10.9	998	0.69
	29/10/2020	<0.1	0.2	21.1	-10.9	1011	0.96
	04/11/2020	<0.1	3.4	18.8	-2.5	1032	0.87
WS109	21/10/2020	<0.1	1.3	19.7	0.1	997	2.85
	29/10/2020	0.1	0.9	19.2	0.1	1013	1.24
	04/11/2020	<0.1	1.1	18.1	0.1	1031	1.35

Table 5.1 Summary of Omnia 2020 gas monitoring results

It is noted that a number of negative and one positive flow rates were recorded during the third-party monitoring. However, on all occasions when a flow rate, whether negative or positive, was recorded, groundwater was noted to be present within the response zone of the monitoring well.

The third-party report states that due to high water levels the boreholes were purged and left for 30 minutes prior to the commencement of the ground gas monitoring. However, it is not known whether the reported groundwater level is prior to or post purging of the wells. Given the water depths reported by Omnia, these have been assumed



to relate to the pre-purging condition as it would not be feasible to undertake monitoring without drawing up water for some of the results reported by Omnia. Reported flow rates from the third party dataset are treated with caution as the well purging process will artificially alter the atmosphere within the well and annuls of soil around the well.

Notwithstanding this the comments above relating to fully submerged response zones are relevant to these third-party recorded flow rates.

The third-party desk study identified two off-site potential sources of ground gas. An unspecified pit from 1868 historic mapping located c.96m south west of the site and a former brickworks understood to be present between c.1937-1939 located 150m west of the site. In order for gases from these identified potential sources to impact the site they would need to migrate from the source laterally through the underlying soils.

Assessment of the construction of the wells and the underlying ground conditions has shown that the response zone all the third-party wells (WS101, WS105, WS107 and WS109) along with the Geo-Environmental well (WS201) are all installed within the natural Wittering Formation soils. These natural soils have been described as, firm to stiff slightly silty sandy CLAY.

The natural soils have not noted the presence of organic materials or other materials that may give rise to the generation of ground gas. Assessment of likely sources of ground gas has not identified any on-site sources. In addition, the natural soils are generally considered to have low permeability due to the clay content noted to be present. Therefore, it is considered that the risk from the migration of gas to the site from off-site sources is very low. No plausible onsite sources of ground gas have been identified and the identified offsite plausible gas sources are not considered to be a risk to the site due to low permeability soils identified as being present beneath the site and likelihood of gas migration considered to be very low.

Gas screening values (GSV) have been calculated for methane and carbon dioxide in accordance with the recommendations contained with C665, BS8485 and the NHBC report. As monitoring has been undertaken by two separate parties within different wells across the site at different times, and due to the recorded flow rates likely to be impacted by the presence of shallow groundwater, a GSV for both methane and carbon dioxide has been calculated for each individual monitoring well. To calculate a GSV for each well, the worst case, i.e. the highest concentration value, of recorded methane and carbon dioxide for that particular well has been used. The highest recorded borehole flow rate for each well has also been used to calculate the GSV. Where negative flow rates have been recorded, in line with current guidance and as a conservative approach the recorded negative rate has been treated as positive. Where no boreholes flow rate has been recorded within the borehole in line with guidance, the gas monitoring instruments limit of detection (0.1l/hr) has been used. Table 5.2 below presents the GSV calculated for each borehole.

Location	CH4 GSV	CO2 GSV	Classification
WS101	0.0260	0.6500	CS1
WS105	0.0190	0.3610	CS1
WS107	0.0109	0.1853	CS1
WS109	0.0001	0.0013	CS1
WS201	*	0.0080	CS1

NOTE: *the presence of methane has not been detected therefore a GSV has not been calculated

Table 5.2 GSV calculated for each monitoring well

The calculated Gas Screening Value would classify the site as representative of Characteristic Situation 1 (BS and CIRIA) and Green (NHBC). In addition, no onsite sources of ground gas have been identified as being present, and the encountered ground conditions beneath the site are considered to be of low permeability such that the migration of gases from off-site sources is considered to be very low.

Based on all the lines of evidence presented above it is considered, in relation to the proposed development, that the site is considered a Characteristic Situation 1 classification, with no requirement for gas protection measures.



5.3 Soil Contamination vs. End Users

The presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health. A Preliminary Quantitative Risk Assessment has been undertaken in order to evaluate any unacceptable risks posed to human health with respect to the proposed redevelopment. It should be noted that this assessment is protective of the chronic long-term effects of contaminants, which is also likely to be protective of any possible immediate acute effects.

A quantitative risk assessment has been undertaken by comparing the results of the laboratory chemical testing of shallow soils against the ATRISKSOIL Soil Screening Values (SSVs) derived by Atkins, or against the Suitable For Use Levels (S4ULs) published by LQM (Copyright Land Quality Management Limited reproduced with permission, Publication Number S4UL3453. All rights Reserved) and Category 4 Screening Levels (C4SLs) published by DEFRA for the proposed end use. Although the C4SLs were released for Part 2A use, the associated policy companion document for the C4SLs indicated that they may also be used for planning. Although the C4SLs represent a marginally higher risk level than the SSACs (low risk rather than minimal risk) it is considered that the risk levels remain very low. Therefore, the final C4SLs are considered to be suitable to assess soils under the planning regime.

Targeted investigation was undertaken in the vicinity of WS101 where elevated Beryllium was identified by the third-party report, along with samples collected from the broader site to supplement the previously obtained third-party data. Samples were selected to provide coverage of the site and to specifically target shallow soils that are likely to come into contact with identified receptors. Analysis was undertaken on soil samples collected from these exploratory holes.

In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria, for a residential with plant uptake use, where available. All of the results were noted to be below the respective assessment criteria, therefore further assessment was not considered necessary.

In addition, samples submitted for laboratory testing were also screened for asbestos. Geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos. Nonetheless, the absence of asbestos in samples analysed does not mean that asbestos might not be present at locations remote from exploratory holes. If/where any such materials are encountered, or suspected, further assessment will be required in accordance with the Discovery Strategy presented in Section 6 of this report.

As such, it is considered that remedial action would not be warranted to protect end users of the proposed residential development.

Should Topsoil need to be imported onto site, for use within private gardens and soft landscaped areas of the site, prior to importation, the chemical, physical and nutritional suitability should be verified. Importation of Topsoil or subsoil from unverified or unsuitable sources would require their removal from site and replacement with suitable materials. As a matter of good practice, it is recommended that the location, approximate extent and thickness of any imported Topsoil are recorded and presented in the Validation/Verification Report to be prepared by the Environmental Consultant.

Due to the presence of buildings on the site and the potential for asbestos to be present within these buildings. It is recommended that following the demolition of the current buildings supplementary investigation works are undertaken to confirm the above assessment.

5.4 Soil Contamination vs. Adjacent land Users

Surrounding land uses were identified to comprise residential properties to the north and south of the site. On the basis of the testing undertaken to date, it is considered that no significant risks to adjacent land users exist.



However, short term risks to adjacent land users may arise in relation to the generation of soil derived dust and particles as fugitive emissions from the site during the construction phase. Therefore, it is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the ground works and construction phases on site in order to minimise and manage potential nuisance issues for adjacent land users.

5.5 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil and requirements for use* provides assessment criteria for a number of potentially phytotoxic contaminants in terms of new planting.

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised in Table 5.3, together with the respective adopted Generic Assessment Criteria (GAC) for plant growth. The compliance criteria set out in BS3882:2015 are pH dependent and thus the GAC used relate to the pH range measured on samples recovered from the site.

Determinand	Phytotoxicity GAC (mg/kg)			GAC Exceedances
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	200	200	300	No
Copper	100	135	200	No
Nickel	60	75	110	No

Table 5.3 Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not identify any exceedance against the relevant phytotoxicity criteria. As such it is considered that no specific measures are required in this respect.

5.6 Soil Contamination vs. Built Environment

The current guidance on the selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010). However, the guidance is not mandatory and there have been concerns raised by various industry technical associations regarding the document and the methodologies proposed.

Although there are concerns regarding the document, in lieu of any further guidance, in the first instance the results of the investigation have been compared with the proposed thresholds published in UKWIR Table 3.1. As such, the utility company should be consulted in order to confirm their specific requirements in this respect, at this time subject to further confirmation it is considered that specific protection measures are unlikely to be required for potable water supply. As a matter of good practice and to maximise the protection to maintenance workers, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

5.7 Soil Contamination vs. Groundwater

The investigation did not identify any mobile contamination and thus in the absence of a pollutant linkage, no further action is warranted.

5.8 Groundwater vs Human Health

The desk study did not identify any potential sources of highly mobile contamination on the site and the intrusive investigation works have not identified any mobile contamination within the soils analysed on the site.

Notwithstanding the above groundwater samples were collected from WS201 and submitted for laboratory testing for suite of commonly occurring brownfield contaminants. In the first instance the results of the sample analysis were compared against the Environmental Quality Standards for freshwater (EQS), Water Framework Directive and



the Water Supply (Water Quality) Regulations 2000, where available. The results of the speciated groundwater analyses undertaken identified very low concentrations of PAH the presence of some TPH compounds.

Given the ground conditions beneath the site it is considered that the groundwater encountered represents discontinuous perched groundwater of limited volume. Therefore, any impacted shallow groundwater is not considered to represent a significant risk to groundwater at depth given that near surface strata included predominantly clay soils which would act as an aquitard with respect to vertical migration.

Based on the above assessment it is considered that continuous groundwater has not been identified on site, and that the identified perched waters do not represent a viable migration source. Therefore, at present no remedial measures are recommended in respect to groundwater.

Due diligence should be undertaken as a part of the site clearance and development works and if any currently unidentified potential sources of mobile contamination are identified these should then be further assessed in line with the discovery strategy for the site.

5.9 Groundwater vs Soft Landscaping

Shallow continuous groundwater has not been identified beneath the site to date. As such, it is considered that no specific action is warranted with respect to soft landscaping.

5.10 Groundwater vs Controlled Waters

In the absence of any evidence of mobile contamination and elevated contaminants within soils on site it is considered that no action is required in terms of risks to Control Waters.

However, should dewatering be required as part of the proposed development then water pumped out will need to be disposed of under the appropriate duty of care and should not be discharge to any watercourses or ditches without an appropriate permission.

5.11 Waste Disposal

The soil analyses from the site were assessed using HazWasteOnline software. None of the samples assessed were indicated to comprise properties attributable to hazardous waste. The HazWasteOnline results are included within Appendix F.

Natural soils at the site are considered likely be classified as Inert Waste (under the respective EWC codes), suitable for disposal at an inert landfill facility, where they are free for asbestos or mobile contaminants. Any soils identified as containing asbestos or mobile contaminants e.g. hydrocarbon may be classified as Hazardous waste.

It must be noted that any waste classification assessment is indicative only and actual classification would depend on permit status of the final disposal facility. Once soils for disposal have been identified it is recommended that further testing of these specific soils be undertaken in order to confirm the above assessment.

In accordance with the CL:AIRE Definition of Waste Code of Practice (2011) materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded by the holder'.

The Code of Practice therefore allows soils to be reused on site where the following criteria are met:

- The re-use of the soils will not present an unacceptable or increased risk to controlled waters, the environment and human health;
- The soils are suitable both in terms of chemical and geotechnical properties for the intended use without prior treatment;



- Only the required volume is used and no more;
- There is a required use and a certainty of use not just a possibility.

In order to comply with the Code of Practice, a Materials Management Plan (MMP) that confirms the above criteria are met must be prepared. The MMP must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. The MMP and declaration must be in place before soils are excavated and it cannot be applied retrospectively. Geo-Environmental can provide this service should it be required.

Where materials do not meet the required criteria, it may be possible to treat them under an environmental permit so that they may be re-used on site. In addition, where material is discarded as waste, it may still be possible to reuse the waste on site under a standard rules environmental permit or a U1 waste exemption. However, strict limits on the volumes that can be reused apply in these cases.

Under current legislation, where wastes are to be disposed of to landfill, they may, depending on their classification, require pre-treatment. Pre-treatment shall comprise a chemical, physical (including sorting), thermal or biological process. The pre-treatment is required to change the characteristics of the waste, reduce its volume, reduce its hazardous nature, and facilitate its handling and enhance its recovery.

Other materials disposed of from site as part of the development of the site may require disposal separately. All materials containing dangerous substances e.g. tar or bitumen, asbestos, mercury, hydrocarbons, PCBs and asbestos are likely to be classified as Hazardous Waste and therefore susceptible to the relevant legislative controls.



6.0 DISCOVERY STRATEGY

Whilst an intrusive investigation has been undertaken on the site, it remains possible that unexpected ground and/or groundwater conditions may be encountered during the process of construction.

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground workers, this must be reported to the Site Manager immediately in order that the Consultant is notified.

Where deemed necessary, the Consultant shall attend the site to inspect the discovery and provide recommendations on the further actions required, if any. Where necessary the regulatory authority shall be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures shall be reported to the regulatory authority or other appropriate organisation for consent, before proceeding or implementing the remedial measures.

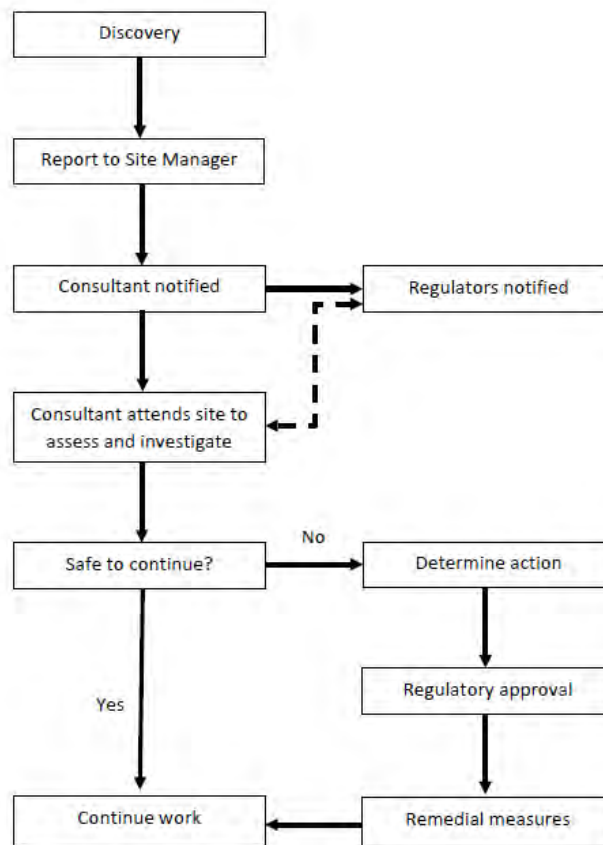
A copy of the discovery strategy must be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, abnormal, unforeseen or contaminated ground and/or groundwater conditions they may encounter.

Depending on the type, nature and extent of any such 'discovery', it may be necessary to halt works in that location until such time as the assessment has been completed. This shall be reviewed on a 'discovery' specific basis and in conjunction with consultation with the client, other technical personnel and/or regulatory/approval organisations.

As a general guide, where such unexpected conditions are encountered the following approach is required as a minimum:

- All discoveries are to be reported to the Site Manager immediately and works at that location are to halt until further notice;
- The Site Manager is to report any such discoveries to the Client and the Consultant;
- Following notification from the Site Manager, the Consultant shall discuss the discovery with the Local Authority and/or other relevant parties and if considered necessary, arrange to meet on site to view the discovery;
- The Consultant shall attend the site to record the location, extent and nature of the discovery and implement an appropriate sampling and analysis regime, taking due account of the type and nature of the discovery, known and probable land uses in that area of the site;
- Where remedial action is required, regulatory consultation and approval will be sought;
- A record will be produced by the Consultant and held on site (with copies held by the Consultant, Client and Local Authority/other relevant organisation), detailing the discovery, assessment works undertaken, findings thereof, confirmation either of no action required or detailing the remedial action taken and validation thereof.

The process is summarised overleaf:



Discovery Strategy Process

FIGURES



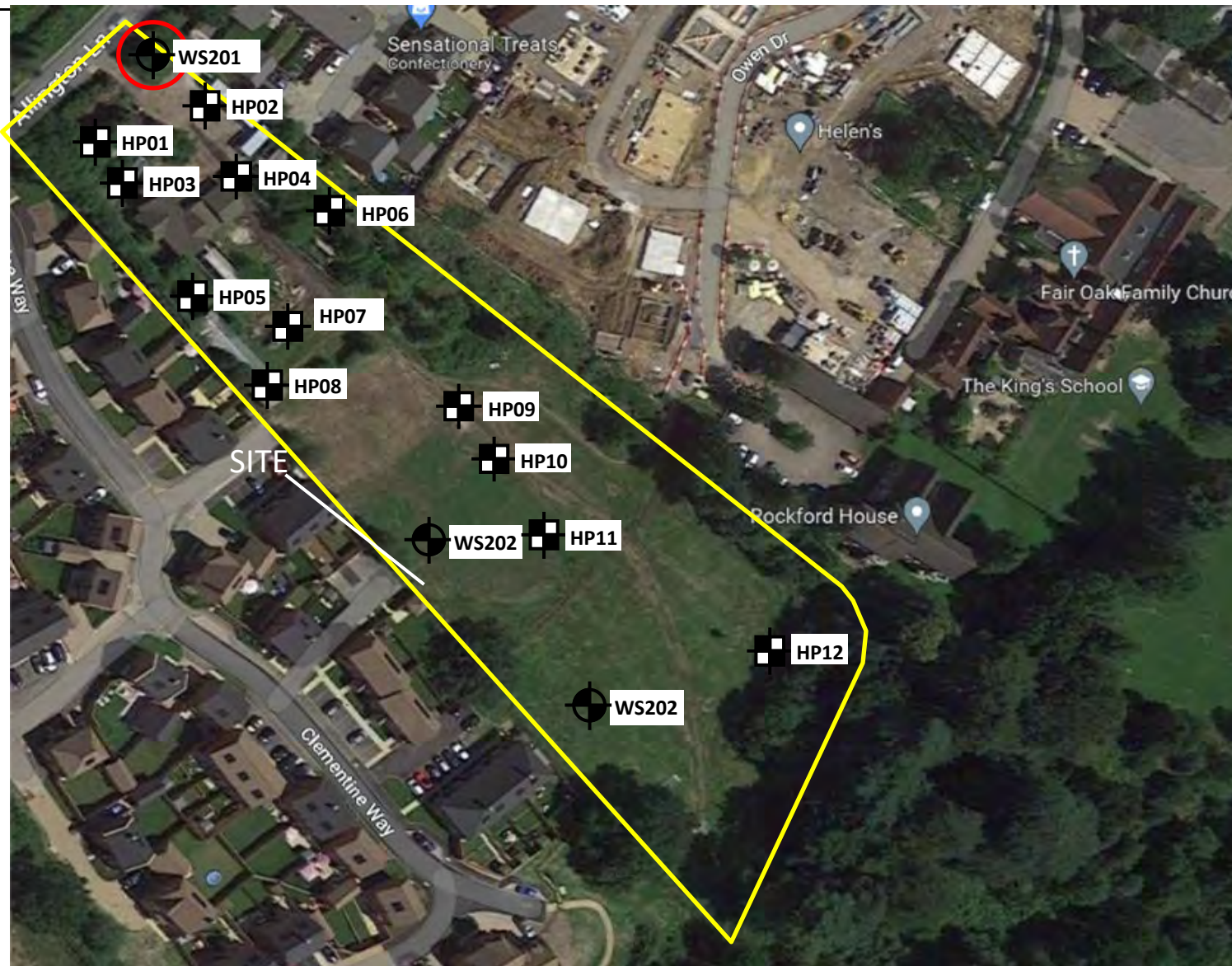


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Project:	Allington Lane – Phase 3 Supplementary GI			Title	Site Location Plan	
Client:	Vistry Southern			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE21355	Revision:	0			
Drawn:	TM	Date:	16/11/2022			
Figure:	1	Scale:	Not To Scale			



Project:	Allington Lane – Phase 3 Supplementary GI			Title	Proposed Development Plan	
Client:	Vistry Southern			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE21355	Revision:	0			
Drawn:	WP	Date:	24/11/2022			
Figure:	2	Scale:	Not To Scale			



Project:	Allington Lane - Phase 3			Title	Exploratory Hole Location Plan	
Client:	Vistry Southern			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE21355	Verion:	1			
Drawn:	WP/FG	Date:	14/04/2023			
Figure:	3	Scale:	Not to Scale			



APPENDIX A

Site Photographs





Plate 1: Tress on eastern site boundary.



Plate 2: Immature to mature trees along northern site boundary.



Plate 3: Mature to immature trees along the southern site boundary.



Plate 4: Overgrown vegetation and trees along the central portion of the northern site boundary.



Plate 5: Hedgerow in the centre of the site.



Plate 6: Immature trees along the Western portion of the southern site boundary.



Plate 7: Mature to immature trees in the south western corner of the site.



Plate 8: Hard landscaping in the centre of the site.



Plate 9: Hard landscaping in the western portion of the site.



Plate 10: Soft landscaping in Eastern portion of the site. Gently sloping east.



Plate 11: Soft landscaping in central portion of the site.



Plate 12: Soft landscaping in the southern portion of the centre of the site.



Plate 13: Potential buried service from the rear of the house.



Plate 14: Overhead cables cross cutting the eastern soft landscaping.



Plate 15: Overhead services in the south western corner of the site.



Plate 16: Stockpile of fencing in the centre of the eastern soft landscaping.



Plate 17: Stockpile of fencing in the centre of the site.



Plate 18: A small skip of materials and stockpiles of brick, sand and plastic bollards in the central portion of the site.



Plate 19: Stockpiles of wood and windows in the centre of the site.



Plate 20: Plastic tubs located in the north eastern corner of the site.



Plate 21: Plastic piping in the centre of the eastern soft landscaping.



Plate 22: Disused fridge in the central soft landscaping.



Plate 23: Evidence of high water table in the centre of the site.



Plate 24: Evidence of high water table in the centre of the site.



Plate 25: Oil tank behind the western shed. Strong fuel smell.



Plate 26: Various gas and chemical bottles in the south western workshop.



Plate 27: Paint cans in south-western workshop.



Plate 28: Heras fencing lining the southern site boundary.



Plate 29: Boat in the central southern portion of the site.

APPENDIX B

Site Specific Radon Report



Shannon Squires
GESL
Unit 7
Danworth Farm
Cuckfield Road
Hurstpierpoint
Hassocks
BN6 9GL

Radon Report

Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

Report Id: *BGS_331003/42162*

Client reference: GE21527

Search location



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Search location indicated in red

*This report describes a site located at National Grid Reference 448772, 117994.
Note that for sites of irregular shape, this point may lie outside the site boundary.
Where the client has submitted a site plan the assessment will be based on the area given.*

Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

1. No protective measures
2. Basic protective measures
3. Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2015 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2015 edition) Radon: Guidance on protective measures for new buildings?

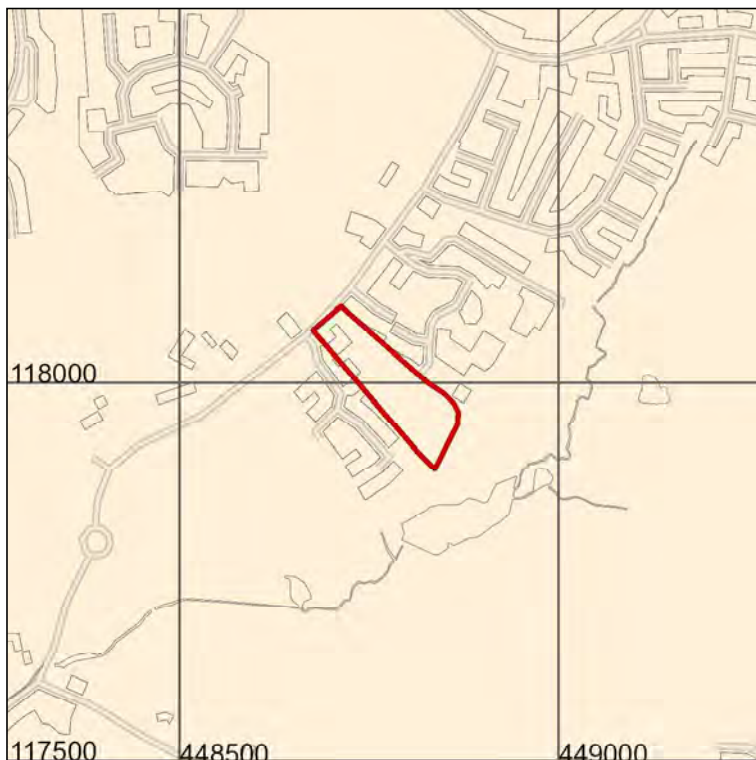
NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

More details of the protective measures required are available in *BR211 Radon: Guidance on protective measures for new buildings (2015 Edition)*. Additional information and guidance is available from the Building Research Establishment website (<http://www.bre.co.uk/radon/>).

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The UKHSA provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

Radon Affected Area



% Homes estimated to be at or above the action level
0-1%
1-3%
3-5%
5-10%
10-30%
30-100%

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Scale: 1:10 000 (1cm = 100 m)

Search area indicated in red

Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? **NO**

Additional Information

THE PROPERTY IS IN AN AREA WHERE LESS THAN 1% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL. THE PROPERTY IS NOT IN A RADON AFFECTED AREA.

The UKHSA recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air (Bq m^{-3}) for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to be at or above the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a high radon level within the property; the only way to determine the radon level is to carry out a radon measurement.

The UKHSA advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels at or above the Action Level (200 Bq m⁻³) should be remediated. Householders with levels between the Target Level (100 Bq m⁻³) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. The UKHSA provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a “Radon Affected Area” as identified by the UKHSA. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were at or above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from the UKHSA at www.ukradon.org.

What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m^{-3}). The Government advises householders that, where the radon level is at or above the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations 2017 require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace**. BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: bookshop@bre.co.uk website: www.brebookshop.com

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- Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
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- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
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**Report issued by
BGS Enquiry Service**

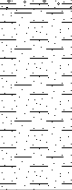
APPENDIX C

Exploratory Hole Logs & In-situ Test Results



 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP01			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448699.4	Northing: 118074.8	Ground Level: 26.61mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log				Weather: Raining		Hole Termination: Reached target depth.		Stability: Sides stable		
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES1	PP=0.4kg/cm2	26.31	(0.30)		Turf over dark brown to brown clayey SAND. Sand is fine to coarse. Abundant 1-2mm rootlets. TOPSOIL			0.5	
0.50	ES2			(0.70)		Very soft becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. WITTERING FORMATION				
				PP=1.5kg/cm2	25.61	1.00		End of Trial Pit at 1.00m		
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.00m					 				
Final Width:										
Final Length:										
Remarks										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
PhotoofPit						PhotoofSpoil				

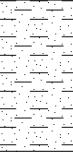
 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP03	
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1		
Trial Pit Log	Easting: 448707.9	Northing: 118060.1	Ground Level: 26.34mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25		
Weather: Light rain		Hole Termination: Reached target depth.			Stability: Sides stable			

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.10	ES1	PP=0.75kg/cm2	26.14	0.20		Turf over dark brown slightly sandy clayey SILT. Sand is fine Abundant 1-2mm rootlets.	0.5	
0.30	ES2		25.94	0.40		TOPSOIL		
			(0.60)			Soft brown slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse subrounded flint. Frequent 1-4mm rootlets, WITTING FORMATION		
		PP=1kg/cm2	25.34	1.00		Soft becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine WITTING FORMATION	1.0	
End of Trial Pit at 1.00m							1.5	
							2.0	
							2.5	
							3.0	
							3.5	

Dimensions:		Photo:	
Final Depth:	1.00m	 	
Final Width:			
Final Length:			
Remarks			
Water present in the pit photo is the result of temporary heavy rain during excavation and logging.			
Water Strikes (mbgl)			
Depth Strike	Rose to	Time Elapsed (mins)	

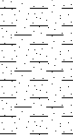

 PhotoofPit

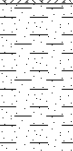

 PhotoofSpoil

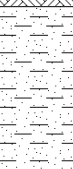
 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP04			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448727.7	Northing: 118061.5	Ground Level: 26.46mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log				Weather: Raining		Hole Termination: Reached target depth.		Stability: Sides stable		
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.30	ES1		25.96	(0.50)		Turf over dark brown slightly sandy clayey SILT. Sand is fine. Occasional fine to coarse subrounded flint gravel. TOPSOIL Frequent 1-2mm rootlets. Frequent 1-5mm rootlets.			0.5	
				0.50		Soft becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. WITTERING FORMATION				
1.00	ES2	PP=0.75kg/cm2	25.46	1.00		End of Trial Pit at 1.00m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:					Photo:					
Final Depth:	1.00m				 					
Final Width:										
Final Length:										
Remarks										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

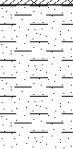
PhotoofPit

PhotoofSpoil

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP05						
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1							
	Easting: 448718.5	Northing: 118031.8	Ground Level: 26.35mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25							
Trial Pit Log			Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing						Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description							
0.40	ES1	PP=0.7kg/cm2	25.85	(0.50)		Turf over dark brown slightly sandy clayey SILT. Sand is fine. Abundant 1-2mm rootlets. TOPSOIL					0.5		
				0.50		Singular 10mm organic gravel .							
0.90	ES2			(0.50)		Soft orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Frequent 1-5mm roots. WITTERING FORMATION							
			25.35	1.00		End of Trial Pit at 1.00m					1.0		
											1.5		
											2.0		
											2.5		
											3.0		
											3.5		
Dimensions:						Photo:							
Final Depth:	1.00m												
Final Width:													
Final Length:													
Remarks													
Water Strikes (mbgl)													
Depth Strike		Rose to		Time Elapsed (mins)									

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP06			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448749.0	Northing: 118056.0	Ground Level:	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log										
Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.10	ES1	PP=1.0kg/cm2		(0.40)		Weeds over dark brown slightly sandy silty CLAY. Sand is fine. Abundant 1-2mm rootlets. TOPSOIL				
0.60	ES2			0.40		Firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Occasional 1-2mm rootlets WITTERING FORMATION			0.5	
		PP=2.0kg/cm2		(0.50)						
				0.90		End of Trial Pit at 0.90m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	0.90m					 PhotoofPit				
Final Width:										
Final Length:										
Remarks						 PhotoofSpoil				
No ground level survey as the position was set up in the wrong location.										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

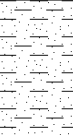
 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP07			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448743.7	Northing: 118026.8	Ground Level: 26.42mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log		Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable		
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES0	PP=1.0kg/cm2	26.07	(0.35)		Turf over dark brown sandy SILT. Sand is fine. Abundant 1-2mm rootlets. TOPSOIL			0.5	
0.70	ES0			(0.55)		Firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Occasional 1-2mm decomposing rootlets. WITTERING FORMATION				
		PP=1.0kg/cm2	25.52	0.90		End of Trial Pit at 0.90m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:					Photo:					
Final Depth:	0.90m									
Final Width:										
Final Length:										
Remarks										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP08		
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1			
	Easting: 448738.0	Northing: 118015.2	Ground Level: 26.49mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25			
Trial Pit Log									
Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.20	ES1			(0.50)		Turf over dark brown slightly clayey very gravelly SILT. Gravel is fine to medium ironstone. Abundant 1-2mm rootlets. TOPSOIL			
0.60	ES2	PP=0.7kg/cm2	25.99	0.50		Soft becoming firm brown and grey mottled becoming orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Frequent 1-2mm rootlets. WITTERING FORMATION		0.5	
		PP=1kg/cm2	25.49	1.00		End of Trial Pit at 1.00m		1.0	
								1.5	
								2.0	
								2.5	
								3.0	
								3.5	
Dimensions:						Photo:			
Final Depth:	1.00m								
Final Width:									
Final Length:									
Remarks									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP09						
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1							
	Easting: 448772.5	Northing: 118006.8	Ground Level: 27.03mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25							
Trial Pit Log			Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing						Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description							
0.10	ES1		26.83	0.20		Turf over dark brown slightly gravelly slightly sandy slightly clayey SILT. Sand is fine. Gravel is fine to medium subangular flint. Abundant 1-5mm roots.					0.5		
0.30	ES2	PP=1.5kg/cm2	26.63	0.40		TOPSOIL							
		PP=1.5kg/cm2		(0.60)		Firm brown sandy CLAY. Sand is fine. Frequent 1-2mm rootlets. WITTERING FORMATION							
		PP=1.5kg/cm2	26.03	1.00		Firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Occasional 1-2mm rootlets. WITTERING FORMATION							
						End of Trial Pit at 1.00m						1.0	
												1.5	
												2.0	
												2.5	
												3.0	
												3.5	
Dimensions:						Photo:							
Final Depth:	1.00m												
Final Width:													
Final Length:													
Remarks													
Water Strikes (mbgl)													
Depth Strike	Rose to		Time Elapsed (mins)										
						PhotoofPitPhotoofSpoil							

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP10			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448779.8	Northing: 117999.5	Ground Level: 27.24mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log										
Weather: Light rain			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.10	ES1	PP=1.0kg/cm2	27.04	0.20		Turf over dark brown slightly sandy slightly clayey gravelly SILT. Sand is fine. Gravel is fine to coarse subangular to subrounded flint. Frequent 1-2mm rootlets TOPSOIL Firm brown slightly gravelly sandy CLAY. Sand is fine. Gravel is fine subrounded flint. Occasional 1-2mm rootlets. WITTERING FORMATION Soft orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Rare 1-2mm rootlets, WITTERING FORMATION			0.5	
			26.89	0.35						
			(0.65)							
0.80	ES2	PP=0.75kg/cm2	26.24	1.00		End of Trial Pit at 1.00m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.00m					 PhotoofPit				
Final Width:										
Final Length:										
Remarks						 PhotoofSpoil				
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP11			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448793.7	Northing: 117981.5	Ground Level: 27.60mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log										
Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES1	PP=2kg/cm2	27.36	0.25		Turf over dark brown slightly sandy very clayey SILT. Abundant 1-2mm rootlets. TOPSOIL			0.5	
0.50	ES2		27.26	0.35		Firm brown sandy CLAY. Sand is fine. Frequent 1-2mm rootlets. WITTERING FORMATION				
			(0.55)			Stiff becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Occasional 1-2mm rootlets. WITTERING FORMATION				
		PP=1kg/cm2	26.70	0.90		End of Trial Pit at 0.90m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:		0.90m								
Final Width:										
Final Length:										
Remarks										
Water Strikes (mbgl)										
Depth Strike		Rose to		Time Elapsed (mins)						
PhotoofPit						PhotoofSpoil				

 Geo-Environmental	Contract Name: Allington Lane - Phase 3			Client: Visrty Southern			Trial Pit ID: HP12			
	Contract Number: GE21355	Date Started: 07/03/2023	Logged By: WP	Checked By: FG	Status: FINAL	Sheet 1 of 1				
	Easting: 448842.5	Northing: 117958.5	Ground Level: 25.42mOD	Plant Used: Hand tools	Date Printed: 14/04/2023	Scale: 1:25				
Trial Pit Log										
Weather: Overcast			Hole Termination: Reached target depth.			Stability: Sides stable				
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES1	PP=1.25kg/cm2	25.17	0.25		Turf over brown slightly sandy silty CLAY. Sand is fine. Abundant 1-2mm rootlets. Occasional coarse subrounded flint gravel. TOPSOIL			0.5	
			24.92	0.50		Orangish brown very sandy CLAY. Sand is fine. Occasional 1-2mm rootlets. WITTERING FORMATION				
0.70	ES2		(0.45)			Firm orangish brown and grey mottled slightly sandy CLAY WITTERING FORMATION				
			24.47	0.95		End of Trial Pit at 0.95m				
Dimensions:					Photo:					
Final Depth:	0.95m				 PhotoofPit					
Final Width:										
Final Length:										
Remarks										
					 PhotoofSpoil					
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS201

Sheet 1 of 1

Project Name: Allington Lane - Phase 3

Project No.
GE21355

Co-ords: 448719E - 118081N

Hole Type
WLS

Location:

Level: 26.84

Scale
1:25

Client: Visrty Southern

Dates: 07/03/2023

Logged By
WP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.50	26.34		Black and orangish brown to brown very sandy GRAVEL. Sand is fine. Gravel is fine to coarse subrounded to subangular flint, brick and tarmacadam. MADE GROUND	1
		0.70 0.75	ES PP	1.0kg/cm2				Soft becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. WITTERING FORMATION	
		1.00	PP	1.5kg/cm2					
		1.50	PP	1.5kg/cm2	2.00	24.84		2-5mm decomposing roots.	2
		1.90 2.00	ES PP	1.5kg/cm2				Firm becoming stiff orangish brown and grey mottled sandy CLAY with abundant ferruginous staining. Sand is fine. WITTERING FORMATION	
		2.50	PP	2.0kg/cm2					
		3.00	PP	2.5kg/cm2	4.45	22.39			3
		3.50	PP	2.5kg/cm2					
		4.00	PP	2.5kg/cm2					
		4.50	PP	2.5kg/cm2	5.00	21.84		Stiff bluish grey very sandy CLAY. Sand is fine. WITTERING FORMATION	4
		5.00	PP	2.5kg/cm2					
			5.00	PP	2.5kg/cm2	5.00	21.84		End of Borehole at 5.00m

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS202

Sheet 1 of 1

Project Name: Allington Lane - Phase 3

Project No.
GE21355

Co-ords: 448772E - 117980N

Hole Type
WLS

Location:

Level: 27.69

Scale
1:25

Client: Visrty Southern

Dates: 07/03/2023

Logged By
WP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	27.49		Turf over dark brown slightly sandy SILT. Sand is fine. Abundant 1-2mm rootlets. TOPSOIL	1
		0.50	PP	0.8kg/cm2				Soft becoming firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Occasional 20mm light grey sandy lens. WITTERING FORMATION	
		1.00	PP	0.8kg/cm2					
		1.50	ES						
		1.50	PP	1.2kg/cm2	1.80	25.89		Firm becoming stiff orangish brown and grey mottled sandy CLAY with frequent black organic 2-20mm organic flecks. Sand is fine. WITTERING FORMATION	2
		2.00	PP	2.2kg/cm2					
		2.50	PP	2.0kg/cm2					
		3.00	PP	2.0kg/cm2					
		3.50	PP	1.5kg/cm2	3.50	24.19		Stiff, locally firm, orangish brown and grey mottled very sandy CLAY. Sand is fine. WITTERING FORMATION	3
		4.00	PP	3.0kg/cm2					
		4.50	PP	2.5kg/cm2					
		5.00	PP	2.0kg/cm2					
					4.80	22.89		Stiff orangish brown and bluish grey sandy CLAY. Sand is fine. WITTERING FORMATION	4
					5.00	22.69		End of Borehole at 5.00m	

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS203 Sheet 1 of 1		
Project Name: Allington Lane - Phase 3				Project No. GE21355		Co-ords: 448799E - 117942N		Hole Type WLS		
Location:						Level: 26.75		Scale 1:25		
Client: Visrty Southern						Dates: 07/03/2023		Logged By WP		
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.20	26.55		Dark brown slightly gravelly sandy SILT. Sand is fine. Gravel is fine to medium subrounded flint. Abundant 1-2mm rootlets.	1 2 3 4 5	
		0.50	ES							TOPSOIL
		0.50	PP	1.5kg/cm2				Firm reddish brown slightly sandy CLAY. Sand is fine. Occasional 1-2mm rootlets.		
		1.00	PP	1.5kg/cm2	0.90	25.85		Firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Rare 1-4mm rootlets down to 1.1m		
		1.50	PP	1.5kg/cm2				WITTERING FORMATION		
		2.00	PP	1.5kg/cm2						
		2.50	PP	1.0kg/cm2	2.40	24.35		Firm orangish brown and grey mottled slightly sandy CLAY. Sand is fine. Abundant 1-5mm black compressible organic flecks. Frequent 1-5mm decomposing rootlet.		
		3.00			3.00	23.75				
		3.10			3.10	23.65		Dark reddish brown gravelly SAND. Sand is coarse. Gravel is fine to medium subrounded ironstone.		
		3.50	PP	0.8kg/cm2				Soft beige and orangish brown mottled very sandy CLAY. Sand is fine. Occasional 1-2mm black organic flecks. Occasional ferruginous staining.		
4.00	PP	0.5kg/cm2				WITTERING FORMATION				
4.50	PP	0.8kg/cm2								
5.00	PP	1.5kg/cm2	4.90	21.85		Firm bluish grey sandy CLAY. Sand is fine.				
			5.00	21.75		WITTERING FORMATION	End of Borehole at 5.00m			
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To



APPENDIX D

Geochemical Laboratory Results





2683



THE ENVIRONMENT AGENCY'S
MONITORING CERTIFICATION SCHEME

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-47140

Issue: 1

Date of Issue: 22/03/2023

Contact: Will Purslow

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-03510

Order No: PO-6214

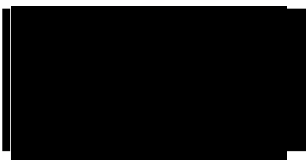
Customer Reference: GE21355

Date Received: 09/03/2023

Date Approved: 22/03/2023

Details: Allington Lane - Phase 3

Approved by:



Tim Reeve, Quality Officer

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 23-47140, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
314487	HP01 0.20	07/03/2023	10/03/2023	Silty loam	
314488	HP01 0.50	07/03/2023	10/03/2023		
314489	HP02 0.05	07/03/2023	10/03/2023		
314490	HP02 0.25	07/03/2023	10/03/2023	Sandy silty loam	
314491	HP02 0.50	07/03/2023	10/03/2023	Silty loam	
314492	HP03 0.10	07/03/2023	10/03/2023	Silty loam	
314493	HP03 0.30	07/03/2023	10/03/2023		
314494	HP04 0.30	07/03/2023	10/03/2023	Silty loam	
314495	HP04 1.00	07/03/2023	10/03/2023		
314496	HP05 0.40	07/03/2023	10/03/2023	Silty loam	
314497	HP05 0.90	07/03/2023	10/03/2023	Silty clayey loam	
314498	HP06 0.10	07/03/2023	10/03/2023	Silty loam	
314499	HP06 0.60	07/03/2023	10/03/2023		
314500	HP07 0.20	07/03/2023	10/03/2023	Silty loam	
314501	HP07 0.70	07/03/2023	10/03/2023		
314502	HP08 0.20	07/03/2023	10/03/2023		
314503	HP08 0.60	07/03/2023	10/03/2023	Silty clayey loam	
314504	HP09 0.10	07/03/2023	10/03/2023	Silty loam	
314505	HP09 0.30	07/03/2023	10/03/2023	Silty loam	
314506	HP10 0.10	07/03/2023	10/03/2023		
314507	HP10 0.80	07/03/2023	10/03/2023	Silty clayey loam	
314508	HP11 0.20	07/03/2023	10/03/2023	Silty loam	
314509	HP11 0.50	07/03/2023	10/03/2023		
314510	HP12 0.20	07/03/2023	10/03/2023		
314511	HP12 0.70	07/03/2023	10/03/2023	Silty loam	
314512	WS201 0.10	07/03/2023	10/03/2023	Sandy loam	
314513	WS201 0.70	07/03/2023	10/03/2023	Silty clayey loam	
314514	WS201 1.90	07/03/2023	10/03/2023		
314515	WS202 0.10	07/03/2023	10/03/2023		
314516	WS202 1.50	07/03/2023	10/03/2023	Silty loam	
314517	WS203 0.10	07/03/2023	10/03/2023	Silty loam	
314518	WS203 0.50	07/03/2023	10/03/2023		



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference			314487	314490	314491	314492	314494	314497	314498	314500	314503	314504
Customer Reference												
Sample ID												
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			HP01	HP02	HP02	HP03	HP04	HP05	HP06	HP07	HP08	HP09
Sample Depth (m)			0.20	0.25	0.50	0.10	0.30	0.90	0.10	0.20	0.60	0.10
Sampling Date			07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023
s	Units	LOD										
	%	0.1	27.1	14.0	24.8	24.2	23.0	20.9	23.9	28.2	22.3	24.8
	%	0.1	9.5	37.7	23.8	20.0	20.4	< 0.1	< 0.1	< 0.1	25.5	15.6
		0	Stone + Twigs	Stone + Glass	Stone	Stone	Stone	None	None	None	Stone	Stone
	mg/kg	1	8.2	8.3	8.6	10.7	7.9	10.4	7.5	8.1	8.6	7.4
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	mg/kg	5	19.7	25.6	24.5	22.1	23.8	28.6	19.0	17.4	25.0	20.2
	mg/kg	5	19.6	450	24.2	32.4	23.5	13.6	21.5	15.5	9.7	14.6
	mg/kg	5	52.3	197	24.1	39.1	34.3	10.4	34.9	36.6	10.0	31.3
	mg/kg	0.5	< 0.5	0.8	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	mg/kg	5	9.2	16.1	9.8	13.7	9.9	16.2	7.6	12.0	10.4	8.4
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	5	27.2	25.2	33.2	34.4	36.2	35.3	30.3	27.2	32.4	30.4
	mg/kg	5	88.5	182	41.7	85.2	59.9	36.2	55.4	59.6	30.4	61.7
	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
	g/l	0.02	< 0.02	1.18	0.27	0.04	0.03	< 0.02	< 0.02	< 0.02	0.05	< 0.02
	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	%	0.02	0.07	0.31	0.07	0.05	0.04	< 0.02	0.03	0.04	0.03	0.04
	mg/kg	0.5	1.3	2.1	0.8	0.6	0.9	< 0.5	0.7	1.2	< 0.5	1.3



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference			314487	314490	314491	314492	314494	314497	314498	314500	314503	314504
Customer Reference												
Sample ID												
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			HP01	HP02	HP02	HP03	HP04	HP05	HP06	HP07	HP08	HP09
Sample Depth (m)			0.20	0.25	0.50	0.10	0.30	0.90	0.10	0.20	0.60	0.10
Sampling Date			07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023
s	Units	LOD										
	pH units	0.1	7.0	8.6	8.1	7.0	7.6	8.0	7.3	6.7	7.5	7.2
	%	0.01	2.5	1.7	1.8	8.3	1.3	0.30	1.7	2.3	0.35	2.1
	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
	mg/kg	0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	0.05	0.21	0.03	0.09	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	< 0.02	0.07	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	0.11	0.56	0.05	0.29	0.04	< 0.02	0.03	0.03	< 0.02	0.05
	mg/kg	0.02	0.09	0.57	0.05	0.25	0.03	< 0.02	0.03	0.03	< 0.02	0.04
	mg/kg	0.02	0.05	0.34	0.04	0.16	0.03	< 0.02	< 0.02	0.05	< 0.02	0.06
	mg/kg	0.02	0.06	0.38	0.03	0.15	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
	mg/kg	0.02	0.08	0.64	0.04	0.16	0.03	< 0.02	0.02	0.03	< 0.02	0.04
	mg/kg	0.03	< 0.03	0.23	< 0.03	0.06	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
	mg/kg	0.02	0.05	0.53	0.03	0.13	< 0.02	< 0.02	< 0.02	0.03	< 0.02	0.03
	mg/kg	0.02	0.03	0.40	< 0.02	0.07	< 0.02	< 0.02	< 0.02	0.02	< 0.02	0.03
	mg/kg	0.02	< 0.02	0.09	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	mg/kg	0.02	0.03	0.40	< 0.02	0.07	< 0.02	< 0.02	< 0.02	0.02	< 0.02	0.03
	mg/kg	0.34	0.54	4.51	< 0.34	1.46	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34



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Results Summary

Report No.: 23-47140, issue number 1

ELAB Reference	314487	314490	314491	314492	314494	314497	314498	314500	314503	314504
Customer Reference										
Sample ID										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	HP01	HP02	HP02	HP03	HP04	HP05	HP06	HP07	HP08	HP09
Sample Depth (m)	0.20	0.25	0.50	0.10	0.30	0.90	0.10	0.20	0.60	0.10
Sampling Date	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023
Determinand	Codes	Units	LOD							
BTEX										
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
OrganoChlorine Pesticides										
alpha-HCH	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference	314505	314507	314508	314511	314512	314513	314516	314517
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	HP09	HP10	HP11	HP12	WS201	WS201	WS202	WS203
Sample Depth (m)	0.30	0.80	0.20	0.70	0.10	0.70	1.50	0.10
Sampling Date	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023

Determinand	Codes	Units	LOD								
Soil sample preparation parameters											
Moisture Content	N	%	0.1	15.8	18.1	28.3	17.8	9.7	21.8	19.9	16.6
Material removed	N	%	0.1	22.5	< 0.1	15.9	< 0.1	33.4	< 0.1	< 0.1	20.2
Description of Inert material removed	N		0	Stone	None	Stone	None	Stone	None	None	Stone
Metals											
Arsenic	M	mg/kg	1	6.1	7.8	8.4	9.8	6.8	11.6	6.7	6.1
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	20.2	22.8	22.3	26.9	25.3	31.2	17.4	19.9
Copper	M	mg/kg	5	10.1	10.3	17.7	12.3	64.2	13.2	10.7	12.1
Lead	M	mg/kg	5	12.2	9.3	38.4	13.5	36.2	11.9	8.0	27.8
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	9.4	9.9	9.8	17.5	14.0	11.1	16.7	8.6
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	27.4	31.3	34.5	36.8	24.0	40.4	21.2	30.0
Zinc	M	mg/kg	5	36.2	32.9	72.2	45.8	64.9	36.8	35.6	39.3
Anions											
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Water Soluble Sulphate	M	g/l	0.02	< 0.02	0.02	< 0.02	< 0.02	0.39	0.09	< 0.02	< 0.02
Inorganics											
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02	0.02	0.03	< 0.02	0.19	0.04	< 0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	0.9	< 0.5	0.8	0.6	1.4	0.9	< 0.5	0.6



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference	314505	314507	314508	314511	314512	314513	314516	314517
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	HP09	HP10	HP11	HP12	WS201	WS201	WS202	WS203
Sample Depth (m)	0.30	0.80	0.20	0.70	0.10	0.70	1.50	0.10
Sampling Date	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023

Determinand	Codes	Units	LOD								
Miscellaneous											
pH	M	pH units	0.1	7.0	7.1	7.3	6.3	9.7	7.9	7.6	6.0
Total Organic Carbon	N	%	0.01	0.53	0.23	2.5	0.29	1.1	0.30	0.08	1.2
Phenols											
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons											
Naphthalene	MS	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.08	< 0.02	< 0.02	< 0.02
Acenaphthylene	MS	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	MS	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Fluorene	US	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	MS	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.43	< 0.02	< 0.02	< 0.02
Anthracene	US	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.15	< 0.02	< 0.02	< 0.02
Fluoranthene	MS	mg/kg	0.02	< 0.02	< 0.02	0.04	< 0.02	0.80	< 0.02	< 0.02	0.02
Pyrene	MS	mg/kg	0.02	< 0.02	< 0.02	0.04	< 0.02	0.71	< 0.02	< 0.02	0.02
Benzo(a)anthracene	US	mg/kg	0.02	< 0.02	< 0.02	0.06	< 0.02	0.41	< 0.02	< 0.02	< 0.02
Chrysene	MS	mg/kg	0.02	< 0.03	< 0.03	0.03	< 0.03	0.47	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	MS	mg/kg	0.02	< 0.02	< 0.02	0.04	< 0.02	0.53	< 0.02	< 0.02	< 0.02
Benzo(k)fluoranthene	MS	mg/kg	0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.20	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	US	mg/kg	0.02	< 0.02	< 0.02	0.03	< 0.02	0.54	< 0.02	< 0.02	< 0.02
Indeno(1,2,3-cd)pyrene	MS	mg/kg	0.02	< 0.02	< 0.02	0.02	< 0.02	0.43	< 0.02	< 0.02	< 0.02
Dibenzo(a,h)anthracene	MS	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.10	< 0.02	< 0.02	< 0.02
Benzo[g,h,i]perylene	MS	mg/kg	0.02	< 0.02	< 0.02	0.02	< 0.02	0.45	< 0.02	< 0.02	< 0.02
Total PAH(16)	NS	mg/kg	0.34	< 0.34	< 0.34	< 0.34	< 0.34	5.35	< 0.34	< 0.34	< 0.34



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference	314505	314507	314508	314511	314512	314513	314516	314517
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	HP09	HP10	HP11	HP12	WS201	WS201	WS202	WS203
Sample Depth (m)	0.30	0.80	0.20	0.70	0.10	0.70	1.50	0.10
Sampling Date	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023	07/03/2023

Determinand	Codes	Units	LOD								
BTEX											
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
OrganoChlorine Pesticides											
alpha-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 23-47140, issue number 1

ELAB Reference				314492	314496	314500
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				HP03	HP05	HP07
Sample Depth (m)				0.10	0.40	0.20
Sampling Date				07/03/2023	07/03/2023	07/03/2023
Determinand	Codes	Units	LOD			
VOC						
Heptane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
cis-1,2-dichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1,2,2-Tetrachloroetha	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
p-cymene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0	< 10.0

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

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Report No.: 23-47140, issue number 1

ELAB Reference				314492	314496	314500
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				HP03	HP05	HP07
Sample Depth (m)				0.10	0.40	0.20
Sampling Date				07/03/2023	07/03/2023	07/03/2023
Determinand	Codes	Units	LOD			
SVOC						
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

2683

Report No.: 23-47140, issue number 1

ELAB Reference	314492	314496	314500
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	HP03	HP05	HP07
Sample Depth (m)	0.10	0.40	0.20
Sampling Date	07/03/2023	07/03/2023	07/03/2023

Determinand	Codes	Units	LOD			
SVOC						
Phenanthrene	N	mg/kg	0.01	0.03	< 0.01	< 0.01
Anthracene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.06	0.01	0.02
Pyrene	N	mg/kg	0.01	0.06	0.01	0.02
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.04	< 0.01	< 0.01
Chrysene	N	mg/kg	0.01	0.05	< 0.01	0.01
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.03	< 0.01	< 0.01
Benzo(k)fluoranthene	N	mg/kg	0.01	0.05	< 0.01	< 0.01
Benzo(a)pyrene	N	mg/kg	0.01	0.04	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.03	< 0.01	< 0.01
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.01	< 0.01	< 0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.03	< 0.01	< 0.01

Results Summary

Report No.: 23-47140, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
314487	0.20	HP01	Brown sandy Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
314490	0.25	HP02	Brown andy Soil,Stones,Tar	No asbestos detected	n/t	n/t	n/t	n/t
314491	0.50	HP02	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
314492	0.10	HP03	Brown soil,Stones,Clinler Glass	No asbestos detected	n/t	n/t	n/t	n/t
314494	0.30	HP04	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
314497	0.90	HP05	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
314498	0.10	HP06	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
314500	0.20	HP07	Brown Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
314503	0.60	HP08	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
314504	0.10	HP09	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
314505	0.30	HP09	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
314507	0.80	HP10	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
314508	0.20	HP11	Brown Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
314511	0.70	HP12	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
314512	0.10	WS201	Brown Sandy Soil,Stones,Brick,Concrete,Tar	No asbestos detected	n/t	n/t	n/t	n/t
314513	0.70	WS201	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
314516	1.50	WS202	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
314517	0.10	WS203	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 23-47140, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	14/03/2023	109	Colorimetry
Hexavalent chromium	N	As submitted sample	13/03/2023	110	Colorimetry
pH	M	Air dried sample	14/03/2023	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	14/03/2023	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	13/03/2023	300	ICPMS
Phenols in solids	N	As submitted sample	13/03/2023	121	HPLC
Elemental Sulphur	M	Air dried sample	13/03/2023	122	HPLC
PAH (GC-FID)	N	As submitted sample	13/03/2023	133	GC-FID
SVOC in solids	N	As submitted sample	13/03/2023	167	GC-MS
Water soluble anions	M	Air dried sample	13/03/2023	172	Ion Chromatography
Organochlorine Pesticides in solids	N	As submitted sample	13/03/2023	173	GC-MS
VOC in solids	M	As submitted sample	15/03/2023	181	GC-MS
BTEX in solids	M	As submitted sample	15/03/2023	181A	GC-MS
Water soluble boron	N	Air dried sample	13/03/2023	202	Colorimetry
Total cyanide	M	As submitted sample	14/03/2023	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	14/03/2023	210	IR
Asbestos identification	U	Air dried sample	15/03/2023	281	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-47140, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



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The Environmental Laboratory Ltd
Unit A2, Windmill Road
Ponswood Industrial Estate
St. Leonards on Sea
East Sussex
TN38 9BY

Attention: Customer Services

CERTIFICATE OF ANALYSIS

Date of report Generation:	22 March 2023
Customer:	The Environmental Laboratory Ltd
Sample Delivery Group (SDG):	230314-98
Your Reference:	23-47140
Location:	
Report No:	683012
Order Number:	11158

We received 18 samples on Tuesday March 14, 2023 and 18 of these samples were scheduled for analysis which was completed on Wednesday March 22, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

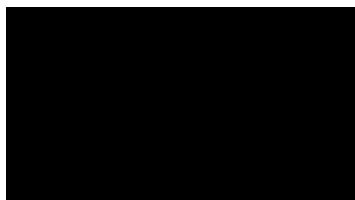
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:



Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 230314-98
Client Ref.: 23-47140

Report Number: 683012
Location:

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
27681042	314487 HP01		0.20	09/03/2023
27681043	314490 HP02		0.25	09/03/2023
27681044	314491 HP02		0.50	09/03/2023
27681045	314492 HP03		0.10	09/03/2023
27681046	314494 HP04		0.30	09/03/2023
27681047	314497 HP05		0.90	09/03/2023
27681048	314498 HP06		0.10	09/03/2023
27681050	314500 HP07		0.20	09/03/2023
27681051	314503 HP08		0.60	09/03/2023
27681052	314504 HP09		0.10	09/03/2023
27681053	314505 HP09		0.30	09/03/2023
27681054	314507 HP10		0.80	09/03/2023
27681055	314508 HP11		0.20	09/03/2023
27681056	314511 HP12		0.70	09/03/2023
27681057	314512 WS201		0.10	09/03/2023
27681059	314513 WS201		0.70	09/03/2023
27681060	314516 WS202		1.50	09/03/2023
27681061	314517 WS203		0.10	09/03/2023

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

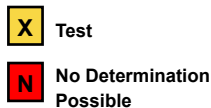
Validated

SDG: 230314-98
Client Ref.: 23-47140

Report Number: 683012
Location:

Superseded Report:

Results Legend



Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
US - Treated Sewage
TS - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	27681061	314517 WS203		0.10	125g Glass Jar	S						
	27681060	314516 WS202		1.50	125g Glass Jar	S						
	27681059	314513 WS201		0.70	125g Glass Jar	S						
	27681057	314512 WS201		0.10	125g Glass Jar	S						
	27681056	314511 HP12		0.70	125g Glass Jar	S						
EPH CWG GC (S)	27681055	314508 HP11		0.20	125g Glass Jar	S						
	27681054	314507 HP10		0.80	125g Glass Jar	S						
	27681053	314505 HP09		0.30	125g Glass Jar	S						
	27681052	314504 HP09		0.10	125g Glass Jar	S						
	27681051	314503 HP08		0.60	125g Glass Jar	S						
	27681050	314500 HP07		0.20	125g Glass Jar	S						
	27681048	314498 HP06		0.10	125g Glass Jar	S						
	27681047	314497 HP05		0.90	125g Glass Jar	S						
	27681046	314494 HP04		0.30	125g Glass Jar	S						
	27681045	314492 HP03		0.10	125g Glass Jar	S						
	27681044	314491 HP02		0.50	125g Glass Jar	S						
	27681043	314490 HP02		0.25	125g Glass Jar	S						
	27681042	314487 HP01		0.20	125g Glass Jar	S						
GRO by GC-FID (S)	All	NDPs: 0 Tests: 18										
Sample description	All	NDPs: 0 Tests: 18										
TPH CWG GC (S)	All	NDPs: 0 Tests: 18										
VOC MS (S)	All	NDPs: 0 Tests: 18										



CERTIFICATE OF ANALYSIS

Validated

SDG: 230314-98
Client Ref.: 23-47140

Report Number: 683012
Location:

Superseded Report:

Sample Descriptions

Grain Sizes

very fine **<0.063mm** **fine** **0.063mm - 0.1mm** **medium** **0.1mm - 2mm** **coarse** **2mm - 10mm** **very coarse** **>10mm**

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
27681042	314487 HP01	0.20	Dark Brown	Sandy Loam	Stones	Vegetation
27681043	314490 HP02	0.25	Dark Brown	Loamy Sand	Stones	Brick
27681044	314491 HP02	0.50	Dark Brown	Silty Clay	Stones	Vegetation
27681045	314492 HP03	0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27681046	314494 HP04	0.30	Light Brown	Sandy Clay Loam	Vegetation	None
27681047	314497 HP05	0.90	Light Brown	Silty Clay	None	None
27681048	314498 HP06	0.10	Dark Brown	Silty Clay	Vegetation	None
27681050	314500 HP07	0.20	Dark Brown	Sandy Loam	Vegetation	None
27681051	314503 HP08	0.60	Light Brown	Silty Clay	None	None
27681052	314504 HP09	0.10	Dark Brown	Sandy Loam	Stones	Vegetation
27681053	314505 HP09	0.30	Dark Brown	Clay Loam	Stones	Vegetation
27681054	314507 HP10	0.80	Light Brown	Silty Clay	Vegetation	None
27681055	314508 HP11	0.20	Dark Brown	Clay Loam	Vegetation	None
27681056	314511 HP12	0.70	Light Brown	Silty Clay	None	None
27681057	314512 WS201	0.10	Light Brown	Sandy Loam	Stones	Crushed Brick
27681059	314513 WS201	0.70	Light Brown	Silty Clay	None	None
27681060	314516 WS202	1.50	Light Brown	Silty Clay	None	None
27681061	314517 WS203	0.10	Light Brown	Sandy Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



Superseded Report:



Superseded Report:



Superseded Report:



CERTIFICATE OF ANALYSIS

Validated

SDG: 230314-98
Client Ref.: 23-47140

Report Number: 683012
Location:

Superseded Report:

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 230314-98
Client Ref.: 23-47140

Report Number: 683012
Location:

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	27681042	27681043	27681044	27681045	27681046	27681047	27681048	27681050	27681051	27681052
	314487 HP01	314490 HP02	314491 HP02	314492 HP03	314494 HP04	314497 HP05	314498 HP06	314500 HP07	314503 HP08	314504 HP09
	AGS Ref.									
	Depth	0.20	0.25	0.50	0.10	0.30	0.90	0.10	0.20	0.60
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
	EPH CWG GC (S)	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023
	GRO by GC-FID (S)	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023
	Sample description	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023
	TPH CWG GC (S)	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023
	VOC MS (S)	20-Mar-2023	20-Mar-2023	18-Mar-2023	18-Mar-2023	20-Mar-2023	18-Mar-2023	18-Mar-2023	20-Mar-2023	20-Mar-2023

Lab Sample No(s) Customer Sample Ref.	27681053	27681054	27681055	27681056	27681057	27681059	27681060	27681061
	314505 HP09	314507 HP10	314508 HP11	314511 HP12	314512 WS201	314513 WS201	314516 WS202	314517 WS203
	AGS Ref.							
	Depth	0.30	0.80	0.20	0.70	0.10	0.70	1.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
	EPH CWG GC (S)	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	22-Mar-2023	21-Mar-2023
	GRO by GC-FID (S)	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023
	Sample description	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023
	TPH CWG GC (S)	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	21-Mar-2023	22-Mar-2023	21-Mar-2023
	VOC MS (S)	18-Mar-2023	18-Mar-2023	20-Mar-2023	18-Mar-2023	20-Mar-2023	18-Mar-2023	18-Mar-2023



CERTIFICATE OF ANALYSIS

SDG: 230314-98
Client Ref: 23-47140

Report Number: 683012
Location:

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



2683

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-47670

Issue: 1

Date of Issue: 21/04/2023

Contact: Will Purslow

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-03510

Order No: PO6348

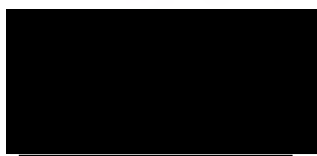
Customer Reference: GE21355

Date Received: 14/04/2023

Date Approved: 21/04/2023

Details: Allington Lane - Phase 3

Approved by:



Tim Reeve, Quality Officer

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 23-47670, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
318386	WS201 0.84 - 3.00	12/04/2023	14/04/2023		g

Results Summary

Report No.: 23-47670, issue number 1

ELAB Reference	318386
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	WS201
Sample Depth (m)	0.84 - 3.00
Sampling Date	12/04/2023

Determinand	Codes	Units	LOD	
Dissolved Metals				
Arsenic	U	ug/l	5	< 5
Boron	N	ug/l	5	40
Barium	U	ug/l	5	33
Beryllium	U	ug/l	5	< 5
Cadmium	U	ug/l	1	< 1
Chromium	U	ug/l	5	< 5
Copper	U	ug/l	5	< 5.0
Mercury	U	ug/l	0.1	< 0.1
Nickel	U	ug/l	5	38
Lead	U	ug/l	1	< 1
Selenium	U	ug/l	5	6
Vanadium	N	ug/l	5	< 5
Zinc	U	ug/l	5	6
Anions				
Chloride	U	mg/l	0.5	28.6
Sulphate	U	mg/l	0.5	234
Inorganics				
Elemental Sulphur	N	mg/l	0.1	< 0.1
Hexavalent Chromium	U	ug/l	100	< 100
Sulphide	N	mg/l	0.1	1.0
Miscellaneous				
Dissolved organic carbon	N	mg/l	1.5	13
pH	U	pH units	0.1	g 6.7
Phenols				
Phenol	N	ug/l	1	< 1
M,P-Cresol	N	ug/l	1	< 1
O-Cresol	N	ug/l	1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1

Results Summary

Report No.: 23-47670, issue number 1

ELAB Reference	318386
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	WS201
Sample Depth (m)	0.84 - 3.00
Sampling Date	12/04/2023

Determinand	Codes	Units	LOD	
Polyaromatic hydrocarbons				
Naphthalene GCMS	N	ug/l	0.01	0.02
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.04
Anthracene GCMS	N	ug/l	0.01	0.02
Fluoranthene GCMS	N	ug/l	0.01	0.09
Pyrene GCMS	N	ug/l	0.01	0.10
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.05
Chrysene GCMS	N	ug/l	0.01	0.08
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.04
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.04
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.08
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.05
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	0.02
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.06
Total PAH(16) GCMS	N	ug/l	0.01	0.69
TPH CWG				
>C5-C6 Aliphatic (HS_1D_MS)	N	ug/l	1	< 1.0
>C6-C8 Aliphatic (HS_1D_MS)	N	ug/l	1	< 1.0
>C8-C10 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C10-C12 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C12-C16 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C16-C21 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C21-C35 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C35-C40 Aliphatic (EH_CU_1D_AL)	N	ug/l	5	< 5.0
Total (>C5-C40) Aliphatic (HS_1D_MS+EH_CU_1D_AL)	N	ug/l	5	< 5.0
>C5-C7 Aromatic (HS_1D_MS)	N	ug/l	1	< 1.0
>C7-C8 Aromatic (HS_1D_MS)	N	ug/l	1	< 1.0
>C8-C10 Aromatic (EH_CU_1D_AR)	N	ug/l	5	< 5.0
>C10-C12 Aromatic (EH_CU_1D_AR)	N	ug/l	5	6.2
>C12-C16 Aromatic (EH_CU_1D_AR)	N	ug/l	5	6.8
>C16-C21 Aromatic (EH_CU_1D_AR)	N	ug/l	5	5.4
>C21-C35 Aromatic (EH_CU_1D_AR)	N	ug/l	5	< 5.0
>C35-C40 Aromatic (EH_CU_1D_AR)	N	ug/l	5	14.9
Total (>C5-C40) Aromatic (HS_1D_MS+EH_CU_1D_AR)	N	ug/l	5	33.4
Total (>C5-C40) Ali/Aro (HS_1D_MS+EH_CU_1D_Total)	N	ug/l	5	33.4



Method Summary

Report No.: 23-47670, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		21/04/2023		GC-FID
Phenols in waters	N		20/04/2023		HPLC
Dissolved metals by ICP in waters	U		21/04/2023	301	ICPMS
Dissolved organic carbon	N		21/04/2023	102	IR
pH of waters	U		21/04/2023	113	Electromeric
Chromium Hexavalent in waters	U		20/04/2023	123	Colorimetry
Sulphide in water	N		20/04/2023	134	Colorimetry
PAHs and/or PCBs in waters	N		20/04/2023	135	GC-MS
Low range Aliphatic hydrocarbons water	N		20/04/2023	200	GC-MS
Low range Aromatic hydrocarbons water	N		20/04/2023	200	GC-MS
Elemental Sulphur by HPLC in waters	N		21/04/2023	206	HPLC
Aliphatic hydrocarbons in water	N		20/04/2023	215	GC-FID
Aromatic hydrocarbons in water	N		20/04/2023	215	GC-FID
Anions	U		20/04/2023	305	Ion Chromatography

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-47670, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

APPENDIX E

Gas and Groundwater Monitoring Results



Project: Allington Lane - Phase 3
 Ref: GE21355
 Client: Vistry Southern



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS201	13/03/23	0	0.0	0.4	18.4	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	10	0.0	0.0	18.9	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	20	0.0	0.0	19.2	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	30	0.0	0.0	19.4	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	60	0.0	0.0	19.7	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	90	0.0	0.0	19.9	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	120	0.0	0.0	20.0	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	13/03/23	180	0.0	0.0	20.1	0.0	1.2	983	1.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	0	0.0	0.0	19.9	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	10	0.0	0.0	20.1	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	20	0.0	0.0	19.7	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	30	0.0	0.0	19.5	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	60	0.0	0.0	19.5	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	90	0.0	0.0	19.8	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	120	0.0	0.0	19.9	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	27/03/23	180	0.0	0.0	19.9	2.0	3.4	1022	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	0	0.0	0.4	18.8	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	10	0.0	0.0	19.1	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	20	0.0	0.0	19.0	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	30	0.0	0.0	18.9	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	60	0.0	0.0	19.1	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	90	0.0	0.0	19.3	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	120	0.0	0.0	19.4	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS201	12/04/23	180	0.0	0.0	19.6	0.0	1.3	988	0.84	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
Max values			0.0	0.4	20.1	2.0	3.4	1022.0	1.1	0.000	0.008	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
Min Vaues			0.0	0.0	18.4	0.0	1.2	983.0	0.8	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			0.0	0.4	20.1	0.1	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

APPENDIX F

HazWaste Assessment



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)



KGZ1H-HLM6W-4SPTG

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

Job name

GE21355 - Allington Lane (Phase 3)

Description/Comments

HWOL_23-47140_20230322

Project

GE21355

Site

Allington Lane Phase 3

Classified by

Name: **Anthony Potter**
 Date: **12 Apr 2023 14:37 GMT**
 Telephone: **01273832972**
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Road
Hurstpierpoint
BN6 9GL

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
 06 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Allington Lane (Phase 3), Fair Oak, Hampshire

Post Code SO50 7DB

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Development of a construction site

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

Waste created through the construction of new residential properties.

Description of the waste

Topsoil - sandy clayey silt, Made Ground - clayey gravelly sand with brick and tarmac, Wittering Formation - sandy clay

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HP01-0.20--07/03/2023	0.20	Non Hazardous		3
2	HP02-0.25--07/03/2023	0.25	Non Hazardous		6
3	HP02-0.50--07/03/2023	0.50	Non Hazardous		9
4	HP03-0.10--07/03/2023	0.10	Non Hazardous		12
5	HP04-0.30--07/03/2023	0.30	Non Hazardous		19
6	HP05-0.40--07/03/2023	0.40	Non Hazardous		22
7	HP05-0.90--07/03/2023	0.90	Non Hazardous		27
8	HP06-0.10--07/03/2023	0.10	Non Hazardous		30
9	HP07-0.20--07/03/2023	0.20	Non Hazardous		33
10	HP08-0.60--07/03/2023	0.60	Non Hazardous		39
11	HP09-0.10--07/03/2023	0.10	Non Hazardous		42
12	HP09-0.30--07/03/2023	0.30	Non Hazardous		45
13	HP10-0.80--07/03/2023	0.80	Non Hazardous		48
14	HP11-0.20--07/03/2023	0.20	Non Hazardous		51
15	HP12-0.70--07/03/2023	0.70	Non Hazardous		54
16	WS201-0.10--07/03/2023	0.10	Non Hazardous		57
17	WS201-0.70--07/03/2023	0.70	Non Hazardous		60
18	WS202-1.50--07/03/2023	1.50	Non Hazardous		63
19	WS203-0.10--07/03/2023	0.10	Non Hazardous		66

Related documents

#	Name	Description
1	HWOL_23-47140_20230322.HWOL	ELAB .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Anthony Potter

Created date: 12 Apr 2023 14:37 GMT

Appendices

	Page
Appendix A: Classifier defined and non GB MCL determinands	69
Appendix B: Rationale for selection of metal species	73
Appendix C: Version	74

Classification of sample: HP01-0.20--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP01-0.20--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
27.1%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 27.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.2 mg/kg	1.32	7.893 mg/kg	0.000789 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				1.3 mg/kg	3.22	3.051 mg/kg	0.000305 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.7 mg/kg	1.462	20.99 mg/kg	0.0021 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				19.6 mg/kg	1.126	16.087 mg/kg	0.00161 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	52.3 mg/kg	1.56	59.471 mg/kg	0.00381 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				9.2 mg/kg	2.976	19.961 mg/kg	0.002 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				88.5 mg/kg	2.774	178.978 mg/kg	0.0179 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		76.3 mg/kg		55.623 mg/kg	0.00556 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH		PH		7 pH		7 pH	7pH			
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.05 mg/kg		0.0365 mg/kg	0.00000365 %	✓		
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.2 mg/kg		0.146 mg/kg	0.0000146 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.1 mg/kg		0.0729 mg/kg	0.00000729 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.05 mg/kg		0.0365 mg/kg	0.00000365 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.1 mg/kg		0.0729 mg/kg	0.00000729 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.08 mg/kg		0.0583 mg/kg	0.00000583 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.1 mg/kg		0.0729 mg/kg	0.00000729 %	✓		
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.1 mg/kg		0.0729 mg/kg	0.00000729 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.2 mg/kg		0.146 mg/kg	0.0000146 %	✓		
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.2 mg/kg		0.146 mg/kg	0.0000146 %	✓		
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				27.2 mg/kg	1.785	35.398 mg/kg	0.00354 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0407 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00556%)

Classification of sample: HP02-0.25--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP02-0.25--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.3 mg/kg	1.32	9.424 mg/kg	0.000942 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				2.1 mg/kg	3.22	5.815 mg/kg	0.000582 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25.6 mg/kg	1.462	32.178 mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				450 mg/kg	1.126	435.719 mg/kg	0.0436 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	197 mg/kg	1.56	264.264 mg/kg	0.0169 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.8 mg/kg	1.353	0.931 mg/kg	0.0000931 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				16.1 mg/kg	2.976	41.209 mg/kg	0.00412 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				182 mg/kg	2.774	434.209 mg/kg	0.0434 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		131 mg/kg		112.66 mg/kg	0.0113 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				8.6 pH		8.6 pH	8.6 pH			
			PH								
21	naphthalene				0.02 mg/kg		0.0172 mg/kg	0.00000172 %	✓		
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				0.02 mg/kg		0.0172 mg/kg	0.00000172 %	✓		
		205-917-1	208-96-8								
23	acenaphthene				0.03 mg/kg		0.0258 mg/kg	0.00000258 %	✓		
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.21 mg/kg		0.181 mg/kg	0.0000181 %	✓		
		201-581-5	85-01-8								
26	anthracene				0.1 mg/kg		0.086 mg/kg	0.0000086 %	✓		
		204-371-1	120-12-7								
27	fluoranthene				0.7 mg/kg		0.602 mg/kg	0.0000602 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.7 mg/kg		0.602 mg/kg	0.0000602 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.4 mg/kg		0.344 mg/kg	0.0000344 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.5 mg/kg		0.43 mg/kg	0.000043 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.8 mg/kg		0.688 mg/kg	0.0000688 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.8 mg/kg		0.688 mg/kg	0.0000688 %	✓		
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.8 mg/kg		0.688 mg/kg	0.0000688 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.5 mg/kg		0.43 mg/kg	0.000043 %	✓		
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				0.2 mg/kg		0.172 mg/kg	0.0000172 %	✓		
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.5 mg/kg		0.43 mg/kg	0.000043 %	✓		
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.2 mg/kg	1.785	38.689 mg/kg	0.00387 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.132 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: HP02-0.50--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP02-0.50--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
24.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.6 mg/kg	1.32	8.539 mg/kg	0.000854 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.8 mg/kg	3.22	1.937 mg/kg	0.000194 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24.5 mg/kg	1.462	26.928 mg/kg	0.00269 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				24.2 mg/kg	1.126	20.489 mg/kg	0.00205 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	24.1 mg/kg	1.56	28.269 mg/kg	0.00181 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				9.8 mg/kg	2.976	21.934 mg/kg	0.00219 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				41.7 mg/kg	2.774	86.993 mg/kg	0.0087 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				8.1 pH		8.1 pH	8.1 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.05 mg/kg		0.0376 mg/kg	0.00000376 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.05 mg/kg		0.0376 mg/kg	0.00000376 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.04 mg/kg		0.0301 mg/kg	0.00000301 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.04 mg/kg		0.0301 mg/kg	0.00000301 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				33.2 mg/kg	1.785	44.57 mg/kg	0.00446 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.027 %		

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: HP03-0.10--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP03-0.10--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
24.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 24.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10.7 mg/kg	1.32	10.709 mg/kg	0.00107 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.464 mg/kg	0.000146 %		✓	
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.1 mg/kg	1.462	24.484 mg/kg	0.00245 %		✓	
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				32.4 mg/kg	1.126	27.651 mg/kg	0.00277 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	39.1 mg/kg	1.56	46.229 mg/kg	0.00296 %		✓	
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.8 mg/kg	1.353	0.821 mg/kg	0.0000821 %		✓	
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				13.7 mg/kg	2.976	30.907 mg/kg	0.00309 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc chromate }				85.2 mg/kg	2.774	179.159 mg/kg	0.0179 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
13	TPH (C6 to C40) petroleum group		TPH		24.4 mg/kg		18.495 mg/kg	0.00185 %		✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7 pH		7 pH	7pH			
			PH								
21	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.09 mg/kg		0.0682 mg/kg	0.00000682 %	✓		
		201-581-5	85-01-8								
26	anthracene				0.02 mg/kg		0.0152 mg/kg	0.00000152 %	✓		
		204-371-1	120-12-7								
27	fluoranthene				0.29 mg/kg		0.22 mg/kg	0.000022 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.25 mg/kg		0.19 mg/kg	0.000019 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.16 mg/kg		0.121 mg/kg	0.0000121 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.15 mg/kg		0.114 mg/kg	0.0000114 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.16 mg/kg		0.121 mg/kg	0.0000121 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.06 mg/kg		0.0455 mg/kg	0.00000455 %	✓		
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.13 mg/kg		0.0985 mg/kg	0.00000985 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.07 mg/kg		0.0531 mg/kg	0.00000531 %	✓		
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				0.01 mg/kg		0.0075 mg/kg	0.00000075 %	✓		
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.07 mg/kg		0.0531 mg/kg	0.00000531 %	✓		
		205-883-8	191-24-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
39	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
40	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-027-00-9	201-167-4	79-01-6								
41	DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-045-00-7	200-024-3	50-29-3								

#	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								
42	chlordan (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan 602-047-00-8	200-349-0	57-74-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
43	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		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
44	dieldrin (ISO) 602-049-00-9	200-484-5	60-57-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
45	endrin (ISO); 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene 602-051-00-X	200-775-7	72-20-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
46	heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene 602-046-00-2	200-962-3	76-44-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
47	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
48	aldrin (ISO) 602-048-00-3	206-215-8	309-00-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
49	sulfur { sulfur } 016-094-00-1	231-722-6	7704-34-9		<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
50	vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8	215-239-8	1314-62-1		34.4 mg/kg	1.785	46.549 mg/kg	0.00465 %		✓	
51	aniline 612-008-00-7	200-539-3	62-53-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
52	bis(2-chloroethyl) ether 603-029-00-2	203-870-1	111-44-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
53	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]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
54	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
55	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
56	benzyl alcohol 603-057-00-5	202-859-9	100-51-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
57	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
58	nitrosodipropylamine 612-098-00-8	210-698-0	621-64-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
59	hexachloroethane 200-666-4	67-72-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
60	nitrobenzene 609-003-00-7	202-716-0	98-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
61	3,5,5-trimethylcyclohex-2-enone; isophorone 606-012-00-8	201-126-0	78-59-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
62	2-nitrophenol 201-857-5	88-75-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
63	3,4-xlenol; [1] 2,5-xlenol; [2] 2,4-xlenol; [3] 2,3-xlenol; [4] 2,6-xlenol; [5] xlenol; [6] 2,4(or 2,5)-xlenol [7] 604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD

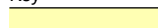
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
64	• bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
65	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
66	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
67	• hexachlorobutadiene	201-765-5	87-68-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
69	• 2-methyl naphthalene	202-078-3	91-57-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
72	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	• dimethyl phthalate	205-011-6	131-11-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	• dibenzofuran	205-071-3	132-64-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	2,3,4,6-tetrachlorophenol	604-013-00-8	200-402-8	58-90-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
78	• diethyl phthalate	201-550-6	84-66-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	• 4-chlorophenylphenylether	230-281-7	7005-72-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	DNOC (ISO); 4,6-dinitro-o-cresol	609-020-00-X	208-601-1	534-52-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
81	diphenylamine	612-026-00-5	204-539-4	122-39-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
83	• 4-bromophenylphenylether	202-952-4	101-55-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	pentachlorophenol	604-002-00-8	201-778-6	87-86-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	• carbazole	201-696-0	86-74-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
87	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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								
89	heptane; n-heptane; [1] 2,4-dimethylpentane; [2] 2,2,3-trimethylbutane; [3] 3,3-dimethylpentane; [4] 2,3-dimethylpentane; [5] 3-methylhexane; [6] 2,2-dimethylpentane; [7] 2-methylhexane; [8] 3-ethylpentane; [9] isoheptane; [10]				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-008-00-2	205-563-8 [1]	142-82-5 [1]								
		203-548-0 [2]	108-08-7 [2]								
		207-346-3 [3]	464-06-2 [3]								
		209-230-8 [4]	562-49-2 [4]								
		209-280-0 [5]	565-59-3 [5]								
		209-643-3 [6]	589-34-4 [6]								
		209-680-5 [7]	590-35-2 [7]								
		209-730-6 [8]	591-76-4 [8]								
		210-529-0 [9]	617-78-7 [9]								
		250-610-8 [10]	31394-54-4 [10]								
90	octane; n-octane; [1] 2,2,4-trimethylpentane; [2] 2,3,3-trimethylpentane; [3] 3,3-dimethylhexane; [4] 2,2,3-trimethylpentane; [5] 2,3,4-trimethylpentane; [6] 3,4-dimethylhexane; [7] 2,3-dimethylhexane; [8] 2,4-dimethylhexane; [9] 4-methylheptane; [10] 3-methylheptane; [11] 2,2-dimethylhexane; [12] 2,5-dimethylhexane; [13] 2-methylheptane; [14] 2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-009-00-8	203-892-1 [1]	111-65-9 [1]								
		208-759-1 [2]	540-84-1 [2]								
		209-207-2 [3]	560-21-4 [3]								
		209-243-9 [4]	563-16-6 [4]								
		209-266-4 [5]	564-02-3 [5]								
		209-292-6 [6]	565-75-3 [6]								
		209-504-7 [7]	583-48-2 [7]								
		209-547-1 [8]	584-94-1 [8]								
		209-649-6 [9]	589-43-5 [9]								
		209-650-1 [10]	589-53-7 [10]								
		209-660-6 [11]	589-81-1 [11]								
		209-689-4 [12]	590-73-8 [12]								
		209-745-8 [13]	592-13-2 [13]								
		209-747-9 [14]	592-27-8 [14]								
		209-855-6 [15]	594-82-1 [15]								
		210-187-2 [16]	609-26-7 [16]								
		210-621-0 [17]	619-99-8 [17]								
		213-923-0 [18]	1067-08-9 [18]								
		247-861-0 [19]	26635-64-3 [19]								
91	chloroform; trichloromethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3								
92	1,1,1-trichloroethane; methyl chloroform				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6								
93	1,1,1,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		211-135-1	630-20-6								
94	1,1,2,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5								
95	chlorobenzene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7								
96	bromobenzene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1								
97	bromodichloromethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		200-856-7	75-27-4								
98	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6								
99	2,2-dichloropropane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		209-832-0	594-20-7								
100	bromochloromethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		200-826-3	74-97-5								
101	dibromomethane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3								
102	1,2-dichloropropane; propylene dichloride				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5								

#	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							
103	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
104	trans-1,3-dichloropropene 431-460-4		10061-02-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
105	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
106	dibromochloromethane 204-704-0		124-48-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
107	1,3-dichloropropane 205-531-3		142-28-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
108	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
109	styrene 601-026-00-0	202-851-5	100-42-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
110	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
111	tert-butylbenzene 202-632-4		98-06-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
112	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
113	sec-butylbenzene 205-227-0		135-98-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
114	4-isopropyltoluene 202-796-7		99-87-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
115	n-butylbenzene 203-209-7		104-51-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
116	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
117	1,2,3-trichlorobenzene 201-757-1		87-61-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
118	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
119	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
120	heptachlor epoxide; 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane 602-063-00-5	213-831-0	1024-57-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
121	p,p'-DDE 200-784-6		72-55-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
122	p,p'-DDD 200-783-0		72-54-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
123	p,p'-methoxychlor 200-779-9		72-43-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
124	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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
125	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
126	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4] 609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<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							
127		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
128		cumene; [1] propylbenzene [2]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		601-024-00-X	202-704-5 [1]	98-82-8 [1]							
			203-132-9 [2]	103-65-1 [2]							
129		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
130		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				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		602-052-00-5	204-079-4	115-29-7							
Total:									0.0402 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00185%)

Classification of sample: HP04-0.30--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP04-0.30--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
23%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				7.9 mg/kg	1.32	8.032 mg/kg	0.000803 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD	
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide; boric oxide }				0.9 mg/kg	3.22	2.231 mg/kg	0.000223 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.8 mg/kg	1.462	26.784 mg/kg	0.00268 %	✓		
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				23.5 mg/kg	1.126	20.373 mg/kg	0.00204 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	34.3 mg/kg	1.56	41.196 mg/kg	0.00264 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		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								
10		nickel { nickel chromate }				9.9 mg/kg	2.976	22.688 mg/kg	0.00227 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		zinc { zinc chromate }				59.9 mg/kg	2.774	127.952 mg/kg	0.0128 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
13		TPH (C6 to C40) petroleum group				17.3 mg/kg		13.321 mg/kg	0.00133 %	✓		
				TPH								
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
15		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.02 mg/kg		0.0154 mg/kg	0.00000154 %	✓	
		201-581-5	85-01-8							
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.04 mg/kg		0.0308 mg/kg	0.00000308 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.03 mg/kg		0.0231 mg/kg	0.00000231 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.03 mg/kg		0.0231 mg/kg	0.00000231 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.03 mg/kg		0.0231 mg/kg	0.00000231 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-883-8	191-24-2							
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				36.2 mg/kg	1.785	49.76 mg/kg	0.00498 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0328 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00133%)

Classification of sample: HP05-0.40--07/03/2023


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

Sample details

Sample name:	LoW Code:
HP05-0.40--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.40 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	toluene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
3	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
4	xylene				<0.02 mg/kg		<0.02 mg/kg		<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
5	naphthalene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
6	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		205-917-1	208-96-8								
7	acenaphthene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		201-469-6	83-32-9								
8	fluorene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		201-695-5	86-73-7								
9	phenanthrene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		201-581-5	85-01-8								
10	anthracene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
		204-371-1	120-12-7								
11	fluoranthene				0.01 mg/kg		0.01 mg/kg		0.000001 %	✓	
		205-912-4	206-44-0								
12	pyrene				0.01 mg/kg		0.01 mg/kg		0.000001 %	✓	
		204-927-3	129-00-0								
13	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
14	chrysene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
15	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
16	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	benzo[a]pyrene; benzo[def]chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
18	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5							
19	dibenz[a,h]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
20	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2							
21	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
22	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
23	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
24	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
25	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
26	aniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
27	bis(2-chloroethyl) ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
28	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-008-00-0	202-433-2 [1]	95-57-8 [1]							
		203-402-6 [2]	106-48-9 [2]							
		203-582-6 [3]	108-43-0 [3]							
		246-691-4 [4]	25167-80-0 [4]							
29	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
30	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
31	benzyl alcohol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-057-00-5	202-859-9	100-51-6							
32	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
33	nitrosodipropylamine				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
34	hexachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-666-4	67-72-1							
35	nitrobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
36	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
37	2-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-857-5	88-75-5							
38	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]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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]							
39	bis(2-chloroethoxy)methane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-920-2	111-91-1							
40	2,4-dichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
41	4-chloroaniline 612-137-00-9	203-401-0	106-47-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
42	hexachlorobutadiene 201-765-5	87-68-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
43	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3	200-431-6	59-50-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
44	2-methyl naphthalene 202-078-3	91-57-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	hexachlorocyclopentadiene 602-078-00-7	201-029-3	77-47-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
46	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
47	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
48	dimethyl phthalate 205-011-6	131-11-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
49	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
50	4-nitrophenol; p-nitrophenol 609-015-00-2	202-811-7	100-02-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
51	dibenzofuran 205-071-3	132-64-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
52	2,3,4,6-tetrachlorophenol 604-013-00-8	200-402-8	58-90-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
53	diethyl phthalate 201-550-6	84-66-2			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
54	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
55	DNOC (ISO); 4,6-dinitro-o-cresol 609-020-00-X	208-601-1	534-52-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
56	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
57	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
58	4-bromophenylphenylether 202-952-4	101-55-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
59	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
60	carbazole 201-696-0	86-74-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
61	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
62	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
63	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
64	heptane; n-heptane; [1] 2,4-dimethylpentane; [2] 2,2,3-trimethylbutane; [3] 3,3-dimethylpentane; [4] 2,3-dimethylpentane; [5] 3-methylhexane; [6] 2,2-dimethylpentane; [7] 2-methylhexane; [8] 3-ethylpentane; [9] isoheptane; [10] 601-008-00-2	205-563-8 [1] 203-548-0 [2] 207-346-3 [3] 209-230-8 [4] 209-280-0 [5] 209-643-3 [6] 209-680-5 [7] 209-730-6 [8] 210-529-0 [9] 250-610-8 [10]	142-82-5 [1] 108-08-7 [2] 464-06-2 [3] 562-49-2 [4] 565-59-3 [5] 589-34-4 [6] 590-35-2 [7] 591-76-4 [8] 617-78-7 [9] 81394-54-4 [10]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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							
65	octane; n-octane; [1] 2,2,4-trimethylpentane; [2] 2,3,3-trimethylpentane; [3] 3,3-dimethylhexane; [4] 2,2,3-trimethylpentane; [5] 2,3,4-trimethylpentane; [6] 3,4-dimethylhexane; [7] 2,3-dimethylhexane; [8] 2,4-dimethylhexane; [9] 4-methylheptane; [10] 3-methylheptane; [11] 2,2-dimethylhexane; [12] 2,5-dimethylhexane; [13] 2-methylheptane; [14] 2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-009-00-8	203-892-1 [1]	111-65-9 [1]							
		208-759-1 [2]	540-84-1 [2]							
		209-207-2 [3]	560-21-4 [3]							
		209-243-9 [4]	563-16-6 [4]							
		209-266-4 [5]	564-02-3 [5]							
		209-292-6 [6]	565-75-3 [6]							
		209-504-7 [7]	583-48-2 [7]							
		209-547-1 [8]	584-94-1 [8]							
		209-649-6 [9]	589-43-5 [9]							
		209-650-1 [10]	589-53-7 [10]							
		209-660-6 [11]	589-81-1 [11]							
		209-689-4 [12]	590-73-8 [12]							
		209-745-8 [13]	592-13-2 [13]							
		209-747-9 [14]	592-27-8 [14]							
		209-855-6 [15]	594-82-1 [15]							
		210-187-2 [16]	609-26-7 [16]							
		210-621-0 [17]	619-99-8 [17]							
		213-923-0 [18]	1067-08-9 [18]							
		247-861-0 [19]	26635-64-3 [19]							
66	chloroform; trichloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
67	1,1,1-trichloroethane; methyl chloroform				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
68	1,1,1,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		211-135-1	630-20-6							
69	1,1,2,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
70	chlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
71	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
72	bromodichloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-856-7	75-27-4							
73	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
74	2,2-dichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		209-832-0	594-20-7							
75	bromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-826-3	74-97-5							
76	dibromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
77	1,2-dichloropropane; propylene dichloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
78	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-030-00-5	208-826-5 [1]	542-75-6 [1]							
		233-195-8 [2]	10061-01-5 [2]							
79	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6							
80	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
81	dibromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1							
82	1,3-dichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-531-3	142-28-9							
83	1,2-dibromoethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							

#	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							
84	styrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
85	1,2,4-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
86	tert-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6							
87	mesitylene; 1,3,5-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
88	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8							
89	4-isopropyltoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-796-7	99-87-6							
90	n-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8							
91	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
92	1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6							
93	1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
94	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
95	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<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]							
96	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
97	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]							
98	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<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]							
99	cumene; [1] propylbenzene [2]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
100	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:								0.00011 %		

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)
<LOD	Below limit of detection

Classification of sample: HP05-0.90--07/03/2023

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

Sample details

Sample name:	LoW Code:	
HP05-0.90--07/03/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.90 m		
Moisture content:		
20.9%		
(wet weight correction)		

Hazard properties

None identified

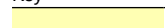
Determinands

Moisture content: 20.9% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				10.4	mg/kg	1.32	10.862	mg/kg	0.00109 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				<1	mg/kg	2.775	<2.775	mg/kg	<0.000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide; boric oxide }				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				28.6	mg/kg	1.462	33.064	mg/kg	0.00331 %	✓	
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8	mg/kg	2.27	<1.816	mg/kg	<0.000182 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				13.6	mg/kg	1.126	12.112	mg/kg	0.00121 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	10.4	mg/kg	1.56	12.832	mg/kg	0.000823 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		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									
10		nickel { nickel chromate }				16.2	mg/kg	2.976	38.138	mg/kg	0.00381 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
11		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
12		zinc { zinc chromate }				36.2	mg/kg	2.774	79.435	mg/kg	0.00794 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
13		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
15		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH		PH		8 pH		8 pH	8pH			
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				35.3 mg/kg	1.785	49.846 mg/kg	0.00498 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0274 %		

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: HP06-0.10--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP06-0.10--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
23.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 23.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.5 mg/kg	1.32	7.536 mg/kg	0.000754 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.7 mg/kg	3.22	1.715 mg/kg	0.000172 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	21.133 mg/kg	0.00211 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				21.5 mg/kg	1.126	18.421 mg/kg	0.00184 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	34.9 mg/kg	1.56	41.427 mg/kg	0.00266 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				7.6 mg/kg	2.976	17.214 mg/kg	0.00172 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				55.4 mg/kg	2.774	116.956 mg/kg	0.0117 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7.3 pH		7.3 pH	7.3 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.03 mg/kg		0.0228 mg/kg	0.00000228 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.03 mg/kg		0.0228 mg/kg	0.00000228 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.02 mg/kg		0.0152 mg/kg	0.00000152 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-045-00-7	200-024-3	50-29-3								
38	chlordan (ISO); 1,2,4,5,6,7,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	602-047-00-8	200-349-0	57-74-9								
39	hexachlorocyclohexanes, including lindane				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	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								

#	Determinand			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	dieldrin (ISO)										
	602-049-00-9	200-484-5	60-57-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
41	endrin (ISO); 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene										
	602-051-00-X	200-775-7	72-20-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
42	heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene										
	602-046-00-2	200-962-3	76-44-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
43	aldrin (ISO)										
	602-048-00-3	206-215-8	309-00-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
44	sulfur { sulfur }										
	016-094-00-1	231-722-6	7704-34-9		<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
45	vanadium { divanadium pentaoxide; vanadium pentoxide }										
	023-001-00-8	215-239-8	1314-62-1		30.3 mg/kg	1.785	41.163 mg/kg	0.00412 %		✓	
46	heptachlor epoxide; 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane										
	602-063-00-5	213-831-0	1024-57-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
47	p,p'-DDE										
		200-784-6	72-55-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
48	p,p'-DDD										
		200-783-0	72-54-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
49	p,p'-methoxychlor										
		200-779-9	72-43-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
50	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		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
Total:									0.0292 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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: HP07-0.20--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP07-0.20--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
28.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 28.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.1 mg/kg	1.32	7.679 mg/kg	0.000768 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				1.2 mg/kg	3.22	2.774 mg/kg	0.000277 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.4 mg/kg	1.462	18.26 mg/kg	0.00183 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				15.5 mg/kg	1.126	12.53 mg/kg	0.00125 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	36.6 mg/kg	1.56	40.99 mg/kg	0.00263 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				12 mg/kg	2.976	25.643 mg/kg	0.00256 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				59.6 mg/kg	2.774	118.713 mg/kg	0.0119 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH		PH		6.7 pH		6.7 pH	6.7 pH			
21	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %		✓	
		205-912-4	206-44-0								
28	pyrene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.05 mg/kg		0.0359 mg/kg	0.00000359 %		✓	
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.01 mg/kg		0.0071 mg/kg	0.000000718 %		✓	
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %		✓	
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.02 mg/kg		0.0144 mg/kg	0.00000144 %		✓	
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.02 mg/kg		0.0144 mg/kg	0.00000144 %		✓	
		205-883-8	191-24-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
39	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
40	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-027-00-9	201-167-4	79-01-6								
41	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-065-00-6	204-273-9	118-74-1								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
42	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
43	vanadium { divanadium pentaoxide; vanadium pentoxide }				27.2 mg/kg	1.785	34.864 mg/kg	0.00349 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
44	aniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	612-008-00-7	200-539-3	62-53-3								
45	bis(2-chloroethyl) ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-029-00-2	203-870-1	111-44-4								
46	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<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]								
47	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-067-00-7	208-792-1	541-73-1								
48	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-035-00-2	203-400-5	106-46-7								
49	benzyl alcohol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-057-00-5	202-859-9	100-51-6								
50	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-034-00-7	202-425-9	95-50-1								
51	nitrosodipropylamine				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	612-098-00-8	210-698-0	621-64-7								
52	hexachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		200-666-4	67-72-1								
53	nitrobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	609-003-00-7	202-716-0	98-95-3								
54	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	606-012-00-8	201-126-0	78-59-1								
55	2-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-857-5	88-75-5								
56	3,4-xlenol; [1] 2,5-xlenol; [2] 2,4-xlenol; [3] 2,3-xlenol; [4] 2,6-xlenol; [5] xlenol; [6] 2,4(or 2,5)-xlenol [7]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<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]								
57	bis(2-chloroethoxy)methane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		203-920-2	111-91-1								
58	2,4-dichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-011-00-7	204-429-6	120-83-2								
59	4-chloroaniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	612-137-00-9	203-401-0	106-47-8								
60	hexachlorobutadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-765-5	87-68-3								
61	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-014-00-3	200-431-6	59-50-7								
62	2-methyl naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		202-078-3	91-57-6								
63	hexachlorocyclopentadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-078-00-7	201-029-3	77-47-4								
64	2,4,6-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-018-00-5	201-795-9	88-06-2								
65	2,4,5-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-017-00-X	202-467-8	95-95-4								

#	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	dimethyl phthalate	205-011-6	131-11-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
67	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
69	dibenzofuran	205-071-3	132-64-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	2,3,4,6-tetrachlorophenol	604-013-00-8	200-402-8	58-90-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	diethyl phthalate	201-550-6	84-66-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
72	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	DNOC (ISO); 4,6-dinitro-o-cresol	609-020-00-X	208-601-1	534-52-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	diphenylamine	612-026-00-5	204-539-4	122-39-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	4-bromophenylphenylether	202-952-4	101-55-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	pentachlorophenol	604-002-00-8	201-778-6	87-86-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
78	carbazole	201-696-0	86-74-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
81	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	heptane; n-heptane; [1] 2,4-dimethylpentane; [2] 2,2,3-trimethylbutane; [3] 3,3-dimethylpentane; [4] 2,3-dimethylpentane; [5] 3-methylhexane; [6] 2,2-dimethylpentane; [7] 2-methylhexane; [8] 3-ethylpentane; [9] isoheptane; [10]	601-008-00-2	205-563-8 [1] 203-548-0 [2] 207-346-3 [3] 209-230-8 [4] 209-280-0 [5] 209-643-3 [6] 209-680-5 [7] 209-730-6 [8] 210-529-0 [9] 250-610-8 [10]	142-82-5 [1] 108-08-7 [2] 464-06-2 [3] 562-49-2 [4] 565-59-3 [5] 589-34-4 [6] 590-35-2 [7] 591-76-4 [8] 617-78-7 [9] 31394-54-4 [10]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
83	octane; n-octane; [1] 2,2,4-trimethylpentane; [2] 2,3,3-trimethylpentane; [3] 3,3-dimethylhexane; [4] 2,2,3-trimethylpentane; [5] 2,3,4-trimethylpentane; [6] 3,4-dimethylhexane; [7] 2,3-dimethylhexane; [8] 2,4-dimethylhexane; [9] 4-methylheptane; [10] 3-methylheptane; [11] 2,2-dimethylhexane; [12] 2,5-dimethylhexane; [13] 2-methylheptane; [14] 2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]	601-009-00-8	203-892-1 [1] 208-759-1 [2] 209-207-2 [3] 209-243-9 [4] 209-266-4 [5] 209-292-6 [6] 209-504-7 [7] 209-547-1 [8]	111-65-9 [1] 540-84-1 [2] 560-21-4 [3] 563-16-6 [4] 564-02-3 [5] 565-75-3 [6] 583-48-2 [7] 584-94-1 [8]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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							
		209-649-6 [9] 209-650-1 [10] 209-660-6 [11] 209-689-4 [12] 209-745-8 [13] 209-747-9 [14] 209-855-6 [15] 210-187-2 [16] 210-621-0 [17] 213-923-0 [18] 247-861-0 [19]	589-43-5 [9] 589-53-7 [10] 589-81-1 [11] 590-73-8 [12] 592-13-2 [13] 592-27-8 [14] 594-82-1 [15] 609-26-7 [16] 619-99-8 [17] 1067-08-9 [18] 26635-64-3 [19]							
84	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
87	1,1,2,2-tetrachloroethane 602-015-00-3	201-197-8	79-34-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
90	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
92	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
93	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
94	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
95	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
97	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
98	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
99	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
100	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
101	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
102	styrene 601-026-00-0	202-851-5	100-42-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
103	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
104	tert-butylbenzene 202-632-4	98-06-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
105	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
106	sec-butylbenzene 205-227-0	135-98-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
107	4-isopropyltoluene 202-796-7	99-87-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
108	n-butylbenzene 203-209-7	104-51-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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							
109		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
110		1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
			201-757-1	87-61-6							
111		1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1							
112		bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2							
113		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<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]							
114		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
115		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]							
116		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<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]							
117		cumene; [1] propylbenzene [2]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
118		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:									0.0288 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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: HP08-0.60--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP08-0.60--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.6 mg/kg	1.32	8.823 mg/kg	0.000882 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	28.391 mg/kg	0.00284 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				9.7 mg/kg	1.126	8.486 mg/kg	0.000849 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	10 mg/kg	1.56	12.12 mg/kg	0.000777 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				10.4 mg/kg	2.976	24.051 mg/kg	0.00241 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				30.4 mg/kg	2.774	65.528 mg/kg	0.00655 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH		PH		7.5 pH		7.5 pH	7.5 pH			
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				32.4 mg/kg	1.785	44.942 mg/kg	0.00449 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.023 %		

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: HP09-0.10--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP09-0.10--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
24.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.4 mg/kg	1.32	7.347 mg/kg	0.000735 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				1.3 mg/kg	3.22	3.148 mg/kg	0.000315 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.2 mg/kg	1.462	22.202 mg/kg	0.00222 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				14.6 mg/kg	1.126	12.361 mg/kg	0.00124 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	31.3 mg/kg	1.56	36.714 mg/kg	0.00235 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				8.4 mg/kg	2.976	18.8 mg/kg	0.00188 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				61.7 mg/kg	2.774	128.716 mg/kg	0.0129 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		24.7 mg/kg		18.574 mg/kg	0.00186 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7.2 pH		7.2 pH	7.2 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.05 mg/kg		0.0376 mg/kg	0.00000376 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.04 mg/kg		0.0301 mg/kg	0.00000301 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.06 mg/kg		0.0451 mg/kg	0.00000451 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.04 mg/kg		0.0301 mg/kg	0.00000301 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.04 mg/kg		0.0301 mg/kg	0.00000301 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.03 mg/kg		0.0226 mg/kg	0.00000226 %	✓		
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				30.4 mg/kg	1.785	40.811 mg/kg	0.00408 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0306 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00186%)

Classification of sample: HP09-0.30--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP09-0.30--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.8%	
(wet weight correction)	

Hazard properties

None identified

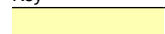
Determinands

Moisture content: 15.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.1 mg/kg	1.32	6.781 mg/kg	0.000678 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.9 mg/kg	3.22	2.44 mg/kg	0.000244 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.2 mg/kg	1.462	24.859 mg/kg	0.00249 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				10.1 mg/kg	1.126	9.575 mg/kg	0.000957 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	12.2 mg/kg	1.56	16.023 mg/kg	0.00103 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				9.4 mg/kg	2.976	23.557 mg/kg	0.00236 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				36.2 mg/kg	2.774	84.557 mg/kg	0.00846 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH		PH		7 pH		7 pH	7pH			
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				27.4 mg/kg	1.785	41.186 mg/kg	0.00412 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0244 %		

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: HP10-0.80--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP10-0.80--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.80 m	
Moisture content:	
18.1%	
(wet weight correction)	

Hazard properties

None identified

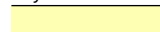
Determinands

Moisture content: 18.1% Wet Weight Moisture Correction applied (MC)

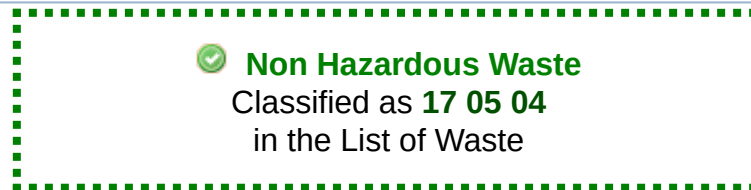
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	7.8 mg/kg	1.32	8.435 mg/kg	0.000843 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		22.8 mg/kg	1.462	27.292 mg/kg	0.00273 %	✓	
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	10.3 mg/kg	1.126	9.498 mg/kg	0.00095 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	9.3 mg/kg	1.56	11.881 mg/kg	0.000762 %	✓	
9	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
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	9.9 mg/kg	2.976	24.132 mg/kg	0.00241 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	32.9 mg/kg	2.774	74.75 mg/kg	0.00747 %	✓	
13	TPH (C6 to C40) petroleum group			TPH	<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7.1 pH		7.1 pH	7.1 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				31.3 mg/kg	1.785	45.763 mg/kg	0.00458 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
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

Classification of sample: HP11-0.20--07/03/2023


Sample details

Sample name:	LoW Code:	
HP11-0.20--07/03/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.20 m		
Moisture content:		
28.3%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 28.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.4 mg/kg	1.32	7.952 mg/kg	0.000795 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.8 mg/kg	3.22	1.847 mg/kg	0.000185 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.3 mg/kg	1.462	23.369 mg/kg	0.00234 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				17.7 mg/kg	1.126	14.289 mg/kg	0.00143 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	38.4 mg/kg	1.56	42.946 mg/kg	0.00275 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				9.8 mg/kg	2.976	20.913 mg/kg	0.00209 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				72.2 mg/kg	2.774	143.61 mg/kg	0.0144 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		11.2 mg/kg		8.03 mg/kg	0.000803 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH		PH		7.3 pH		7.3 pH	7.3 pH		
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.04 mg/kg		0.0287 mg/kg	0.00000287 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.04 mg/kg		0.0287 mg/kg	0.00000287 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.06 mg/kg		0.043 mg/kg	0.0000043 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.04 mg/kg		0.0287 mg/kg	0.00000287 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.03 mg/kg		0.0215 mg/kg	0.00000215 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.02 mg/kg		0.0143 mg/kg	0.00000143 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.02 mg/kg		0.0143 mg/kg	0.00000143 %	✓	
		205-883-8	191-24-2							
37	DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-045-00-7	200-024-3	50-29-3							
38	chlordan (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-047-00-8	200-349-0	57-74-9							
39	hexachlorocyclohexanes, including lindane				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	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							

#	Determinand			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	dieldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
41	endrin (ISO); 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-051-00-X	200-775-7	72-20-8							
42	heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-046-00-2	200-962-3	76-44-8							
43	aldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
44	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
45	vanadium { divanadium pentaoxide; vanadium pentoxide }				34.5 mg/kg	1.785	44.159 mg/kg	0.00442 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
46	heptachlor epoxide; 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-063-00-5	213-831-0	1024-57-3							
47	p,p'-DDE				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-784-6	72-55-9							
48	p,p'-DDD				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-783-0	72-54-8							
49	p,p'-methoxychlor				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-779-9	72-43-5							
50	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				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-052-00-5	204-079-4	115-29-7							
Total:								0.0323 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0008%)

Classification of sample: HP12-0.70--07/03/2023

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

Sample details

Sample name:	LoW Code:
HP12-0.70--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.70 m	
Moisture content:	
17.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.8 mg/kg	1.32	10.636 mg/kg	0.00106 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.588 mg/kg	0.000159 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.9 mg/kg	1.462	32.318 mg/kg	0.00323 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				12.3 mg/kg	1.126	11.383 mg/kg	0.00114 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	13.5 mg/kg	1.56	17.309 mg/kg	0.00111 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				17.5 mg/kg	2.976	42.814 mg/kg	0.00428 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				45.8 mg/kg	2.774	104.44 mg/kg	0.0104 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				6.3 pH		6.3 pH	6.3 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				36.8 mg/kg	1.785	54.001 mg/kg	0.0054 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0309 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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: WS201-0.10--07/03/2023

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

Sample details

Sample name:	LoW Code:
WS201-0.10--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.7% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				6.8	mg/kg	1.32	8.107	mg/kg	0.000811 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				<1	mg/kg	2.775	<2.775	mg/kg	<0.000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide; boric oxide }				1.4	mg/kg	3.22	4.071	mg/kg	0.000407 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25.3	mg/kg	1.462	33.391	mg/kg	0.00334 %	✓	
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8	mg/kg	2.27	<1.816	mg/kg	<0.000182 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				64.2	mg/kg	1.126	65.271	mg/kg	0.00653 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	36.2	mg/kg	1.56	50.988	mg/kg	0.00327 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		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									
10		nickel { nickel chromate }				14	mg/kg	2.976	37.626	mg/kg	0.00376 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
11		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
12		zinc { zinc chromate }				64.9	mg/kg	2.774	162.578	mg/kg	0.0163 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
13		TPH (C6 to C40) petroleum group				368	mg/kg		332.304	mg/kg	0.0332 %	✓	
				TPH									
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
15		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH		PH		9.7 pH		9.7 pH	9.7 pH		
21	naphthalene				0.08 mg/kg		0.0722 mg/kg	0.00000722 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				0.02 mg/kg		0.0181 mg/kg	0.00000181 %	✓	
		201-469-6	83-32-9							
24	fluorene				0.02 mg/kg		0.0181 mg/kg	0.00000181 %	✓	
		201-695-5	86-73-7							
25	phenanthrene				1.2 mg/kg		1.084 mg/kg	0.000108 %	✓	
		201-581-5	85-01-8							
26	anthracene				0.4 mg/kg		0.361 mg/kg	0.0000361 %	✓	
		204-371-1	120-12-7							
27	fluoranthene				1.9 mg/kg		1.716 mg/kg	0.000172 %	✓	
		205-912-4	206-44-0							
28	pyrene				1.6 mg/kg		1.445 mg/kg	0.000144 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.8 mg/kg		0.722 mg/kg	0.0000722 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.9 mg/kg		0.813 mg/kg	0.0000813 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.8 mg/kg		0.722 mg/kg	0.0000722 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				1 mg/kg		0.903 mg/kg	0.0000903 %	✓	
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				1 mg/kg		0.903 mg/kg	0.0000903 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.6 mg/kg		0.542 mg/kg	0.0000542 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.1 mg/kg		0.0903 mg/kg	0.00000903 %	✓	
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.6 mg/kg		0.542 mg/kg	0.0000542 %	✓	
		205-883-8	191-24-2							
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				24 mg/kg	1.785	38.689 mg/kg	0.00387 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0755 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0332%)

Classification of sample: WS201-0.70--07/03/2023

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

Sample details

Sample name:	LoW Code:
WS201-0.70--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.70 m	
Moisture content:	
21.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				11.6 mg/kg	1.32	11.977 mg/kg	0.0012 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.9 mg/kg	3.22	2.266 mg/kg	0.000227 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				31.2 mg/kg	1.462	35.66 mg/kg	0.00357 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				13.2 mg/kg	1.126	11.622 mg/kg	0.00116 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	11.9 mg/kg	1.56	14.515 mg/kg	0.000931 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				11.1 mg/kg	2.976	25.835 mg/kg	0.00258 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				36.8 mg/kg	2.774	79.833 mg/kg	0.00798 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7.9 pH		7.9 pH	7.9 pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				40.4 mg/kg	1.785	56.399 mg/kg	0.00564 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0274 %		

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: WS202-1.50--07/03/2023

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

Sample details

Sample name:	LoW Code:
WS202-1.50--07/03/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19.9%	
(wet weight correction)	

Hazard properties

None identified

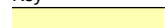
Determinands

Moisture content: 19.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	7.086 mg/kg	0.000709 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.4 mg/kg	1.462	20.37 mg/kg	0.00204 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				10.7 mg/kg	1.126	9.65 mg/kg	0.000965 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	8 mg/kg	1.56	9.995 mg/kg	0.000641 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				16.7 mg/kg	2.976	39.813 mg/kg	0.00398 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				35.6 mg/kg	2.774	79.106 mg/kg	0.00791 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-883-8	191-24-2							
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				21.2 mg/kg	1.785	30.315 mg/kg	0.00303 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0235 %		

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: WS203-0.10--07/03/2023

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

Sample details

Sample name:	LoW Code:
WS203-0.10--07/03/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
16.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.1 mg/kg	1.32	6.717 mg/kg	0.000672 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.611 mg/kg	0.000161 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.9 mg/kg	1.462	24.257 mg/kg	0.00243 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				12.1 mg/kg	1.126	11.362 mg/kg	0.00114 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	27.8 mg/kg	1.56	36.165 mg/kg	0.00232 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	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							
10	nickel { nickel chromate }				8.6 mg/kg	2.976	21.347 mg/kg	0.00213 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				39.3 mg/kg	2.774	90.926 mg/kg	0.00909 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group		TPH		18.1 mg/kg		15.095 mg/kg	0.00151 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	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 }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				6 pH		6 pH	6pH			
			PH								
21	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.02 mg/kg		0.0167 mg/kg	0.00000167 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.02 mg/kg		0.0167 mg/kg	0.00000167 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
37	sulfur { sulfur }				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
38	vanadium { divanadium pentaoxide; vanadium pentoxide }				30 mg/kg	1.785	44.665 mg/kg	0.00447 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.027 %		

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 because No liquid phase; to lower concentration to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00151%)

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

• 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

• 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

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

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

• 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

■ **divanadium pentaoxide; vanadium pentoxide** (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8
Description/Comments:
Additional Hazard Statement(s): Carc. 1B; H350 , Acute Tox. 3; H301 , Acute Tox. 2; H330
Reason for additional Hazards Statement(s):
20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].
Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].
Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].
Substance has therefore been self-classified.

■ **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

■ **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

■ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

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; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

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. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

▪ **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-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

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 1; H410

▪ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

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 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

▪ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

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; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

▪ **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

▪ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

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 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

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 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

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 Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

▪ **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

▪ **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

■ **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

■ **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

■ **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

■ **1,3-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

■ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

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 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

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 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

■ **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

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 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

■ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

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 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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

▪ **p,p'-DDE** (EC Number: 200-784-6, CAS Number: 72-55-9)

Description/Comments: other names: 4,4'-DDE; 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21845>

Data source date: 11 Jan 2018

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **p,p'-DDD** (EC Number: 200-783-0, CAS Number: 72-54-8)

Description/Comments: other names: Rhothane; p,p'-TDE; 4,4'-DDD; 4,4'-TDE;
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21283>

Data source date: 11 Jan 2018

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **p,p'-methoxychlor** (EC Number: 200-779-9, CAS Number: 72-43-5)

Description/Comments: other names: Methoxychlor; DMDT; Dimethoxy-DDT; Methoxy-DDT; Methoxide; p,p'-Dimethoxydiphenyltrichloroethane; 1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/112624>

Data source date: 11 Jan 2018

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

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

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

sulfur {sulfur}

Most likely occurrence

vanadium {divanadium pentaoxide; vanadium pentoxide}

Most likely occurrence

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.73.5544.10256 (14 Mar 2023)

HazWasteOnline Database: 2023.73.5544.10256 (14 Mar 2023)

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

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)



LIULC-KMD8N-SQQPW

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

Job name

GE21355 - Allington Road (Phase 3) TPH

Description/Comments

23-47140 - TPH CWG-HWOL 230314-98

Project

GE21355

Site

Allington Lane (Phase 3).

Classified by

Name: **Anthony Potter**
 Date: **12 Apr 2023 14:31 GMT**
 Telephone: **01273832972**
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Road
Hurstpierpoint
BN6 9GL

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
 06 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Allington Lane (Phase 3), Fair Oak, Hampshire

Post Code SO50 7DB

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Development of construction site

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

Waste created through the construction of new residential properties.

Description of the waste

Made Ground - clayey gravelly sand with brick and tarmac, topsoil - sandy clayey silt, Wittering Foramtion - sandy clay

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	314487 HP01-090323--0.20		Non Hazardous		3
2	314490 HP02-090323--0.25		Non Hazardous		4
3	314491 HP02-090323--0.50		Non Hazardous		5
4	314492 HP03-090323--0.10		Non Hazardous		6
5	314494 HP04-090323--0.30		Non Hazardous		7
6	314497 HP05-090323--0.90		Non Hazardous		8
7	314498 HP06-090323--0.10		Non Hazardous		9
8	314500 HP07-090323--0.20		Non Hazardous		10
9	314503 HP08-090323--0.60		Non Hazardous		11
10	314504 HP09-090323--0.10		Non Hazardous		12
11	314505 HP09-090323--0.30		Non Hazardous		13
12	314507 HP10-090323--0.80		Non Hazardous		14
13	314508 HP11-090323--0.20		Non Hazardous		15
14	314511 HP12-090323--0.70		Non Hazardous		16
15	314512 WS201-090323--0.10		Non Hazardous		17
16	314513 WS201-090323--0.70		Non Hazardous		18
17	314516 WS202-090323--1.50		Non Hazardous		19
18	314517 WS203-090323--0.10		Non Hazardous		20

Related documents

#	Name	Description
1	23-47140 - TPH CWG-HWOL 230314-98.hwol	ALS Hawarden .hwol file used to populate the Job

Report

Created by: Anthony Potter

Created date: 12 Apr 2023 14:31 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	21
Appendix B: Rationale for selection of metal species	21
Appendix C: Version	21

Classification of sample: 314487 HP01-090323--0.20

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

Sample details

Sample name:	LoW Code:	
314487 HP01-090323--0.20	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
27% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 27% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314490 HP02-090323--0.25

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

Sample details

Sample name:	LoW Code:	
314490 HP02-090323--0.25	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314491 HP02-090323--0.50

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

Sample details

Sample name:	LoW Code:	
314491 HP02-090323--0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	benzene				<9 µg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
2	ethylbenzene				<4 µg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
4	toluene				<7 µg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	xylene				<20 µg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314492 HP03-090323--0.10

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

Sample details

Sample name:	LoW Code:	
314492 HP03-090323--0.10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314494 HP04-090323--0.30

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

Sample details

Sample name:	LoW Code:	
314494 HP04-090323--0.30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	benzene				<9 µg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
2	ethylbenzene				<4 µg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
4	toluene				<7 µg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	xylene				<20 µg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314497 HP05-090323--0.90

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

Sample details

Sample name:	LoW Code:	
314497 HP05-090323--0.90	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314498 HP06-090323--0.10

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

Sample details

Sample name:	LoW Code:	
314498 HP06-090323--0.10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314500 HP07-090323--0.20

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

Sample details

Sample name:	LoW Code:	
314500 HP07-090323--0.20	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314503 HP08-090323--0.60

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

Sample details

Sample name:	LoW Code:	
314503 HP08-090323--0.60	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	benzene				<9 µg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
2	ethylbenzene				<4 µg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
4	toluene				<7 µg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	xylene				<20 µg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314504 HP09-090323--0.10

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

Sample details

Sample name:	LoW Code:	
314504 HP09-090323--0.10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
23% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314505 HP09-090323--0.30

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

Sample details

Sample name:	LoW Code:	
314505 HP09-090323--0.30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.7% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	benzene				<9 µg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
2	ethylbenzene				<4 µg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
4	toluene				<7 µg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	xylene				<20 µg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314507 HP10-090323--0.80

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

Sample details

Sample name:	LoW Code:	
314507 HP10-090323--0.80	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314508 HP11-090323--0.20

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

Sample details

Sample name:	LoW Code:	
314508 HP11-090323--0.20	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
25% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 25% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314511 HP12-090323--0.70

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

Sample details

Sample name:	LoW Code:	
314511 HP12-090323--0.70	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314512 WS201-090323--0.10

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

Sample details

Sample name:	LoW Code:	
314512 WS201-090323--0.10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.3% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<90 µg/kg		<0.09	mg/kg	<0.000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<40 µg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<100 µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<70 µg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<200 µg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									0.00005 %		

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)
<LOD	Below limit of detection

Classification of sample: 314513 WS201-090323--0.70

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

Sample details

Sample name:	LoW Code:	
314513 WS201-090323--0.70	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314516 WS202-090323--1.50

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

Sample details

Sample name:	LoW Code:	
314516 WS202-090323--1.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	benzene				<9 µg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
2	ethylbenzene				<4 µg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
4	toluene				<7 µg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	xylene				<20 µg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								5.0e-06 %		

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)
<LOD	Below limit of detection

Classification of sample: 314517 WS203-090323--0.10

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

Sample details

Sample name:	LoW Code:
314517 WS203-090323--0.10	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	benzene				<9 µg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
2	ethylbenzene				<4 µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
3	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<10 µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
4	toluene				<7 µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	xylene				<20 µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
Total:									5.0e-06 %		

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)
<LOD	Below limit of detection

Appendix A: Classifier defined and non GB MCL determinands

- **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

Appendix B: Rationale for selection of metal species

None used in this classification

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.73.5544.10256 (14 Mar 2023)

HazWasteOnline Database: 2023.73.5544.10256 (14 Mar 2023)

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