



Geo-Environmental

GROUND APPRAISAL REPORT

for the land at

PARK FARM AREA, BOORLEY GARDENS

WINCHESTER ROAD, HEDGE END

SOUTHAMPTON, SO32 2UA

on behalf of

BELLWAY HOMES & MILLER HOMES





Report:	GROUND APPRAISAL REPORT
Site:	PARK FARM AREA, BOORLEY GARDENS, WINCHESTER ROAD, HEDGE END, SOUTHAMPTON, SO32 2UA
Client:	BELLWAY HOMES & MILLER HOMES
Date:	09/03/2023
Reference:	GE20584/GARv2/MAR23
Version:	2.0
Prepared by:	
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AMENDMENT RECORD

Revision ref.	Date	Reasons for amendment	Author	Reviewed By	Authorised By
1.0	30/06/2022	First issue	SA	GR	LL
2.0	09/03/2023	Updated with results from post-demolition investigation	SA	LL	GR



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EXECUTIVE SUMMARY		
Site Details	Site Address	Park Farm, Boorley Gardens, Winchester Road, Hedge End, Southampton, SO32 2UA
	National Grid Reference	450346, 115099
	Site Area	2.5ha (approx.)
	Form of Development	The construction of a residential development including private gardens, access roads and associated development infrastructure.
Encountered Conditions	Scope of Works	The assessment comprised two phases of intrusive investigation (pre and post demolition) targeting potential sources of soil, groundwater and ground gas contamination to confirm the ground and groundwater conditions and support the development of updated geo-environmental assessments of the site in relation to the proposed development.
	Ground Conditions	The ground conditions encountered comprised a mantle of Topsoil or Made Ground overlying clay-based soils of the Wittering Formation with the London Clay Formation present at depth. Visual and olfactory evidence of hydrocarbon contamination was recorded in WS202, TP102 and TP103 associated with former tanks in this location. Visible fragments of asbestos cement were observed in two locations on the site surface and within Made Ground soils in TP112 during the post demolition investigation.
	Groundwater	Groundwater was encountered at depths between 0.90m and 2.00m bgl during the investigations. Monitoring in May and June 2022 recorded groundwater depths ranging between 0.59m and 2.98m bgl.
Environmental Considerations	Human Health	Post demolition investigation recorded elevated Lead and PAH concentrations within Made Ground soils in one location. Asbestos cement was recorded with Made Ground soil in one location and on the site surface in two locations. Additionally, elevated PAH concentrations and asbestos were recorded during a previous phase of investigation within the Made Ground soils at the site. In addition, whilst below respective human health screening criteria values, some elevated concentrations of TPH compounds were identified in soils tested from WS202 and TP101-TP104. The remedial strategy for the site sets out a reduced dig exercise to remove the Lead, PAH and asbestos containing Made Ground from within proposed private gardens and areas of soft landscaping.
	Groundwater	Minor hydrocarbon impact was observed in soils in WS202 adjacent to an above ground diesel tank, with some potential hydrocarbon breakdown products identified in soils analysed. A groundwater sample from this location recorded elevated metal compounds and three volatile organic compounds (VOCs). The metal concentrations were considered representative of general background groundwater quality in the area of the site. The VOCs were potentially associated with the natural breakdown and degradation of minor spillages of fuels at the site. Following removal of the tank during demolition of the site further localised investigation was undertaken in the area of the diesel tank which recorded slightly elevated TPH concentrations within soils. However, as the contamination source had been removed and minor soil based impact would be expected to degrade over time, no remediation in terms of groundwater is considered to be required.
	Ground Gas	A Detailed Quantitative Gas Risk Assessment has been undertaken by Geo-Environmental for the site (ref. GE20584/DQGRA/JUN22, dated 30 th June 2022). The assessment concluded that the site should be considered a Characteristic Situation 1 classification, with no requirement for gas protection measures.
	Radon Gas	Based on updated BGS mapping issued in December 2022, no radon protection measures are required.
	Built Environment	On the basis of testing undertaken to date, barrier pipe would be required within the area of WS202, TP101, TP102, TP103 and TP104 due to recorded TPH in the C11-C20 range and SVOC concentrations. The remaining analysis indicates that



EXECUTIVE SUMMARY		
		PE pipework would likely be suitable in other areas of the site.
	Waste Disposal	The following information is provided for preliminary guidance purposes, as different facilities or operators may have differing acceptance criteria and further waste characterisation and Waste Acceptance Criteria (WAC) analysis may be required to confirm the exact classification. The soil analyses from the site were assessed using HazWasteOnline software. The sample from WS202 at 1.00m bgl was assessed to be hazardous waste due to the recorded TPH concentration. The sample from TP112 at 0.10m bgl was assessed to be a hazardous mixed waste due to the presence of a fragment of asbestos cement. None of the other samples assessed were indicated to represent potentially hazardous waste.
Further Action: • Complete remediation as detailed within the Remediation Strategy and Verification Plan for the site. • A discovery strategy must be maintained during development such that if any abnormal conditions (geotechnical or potential contamination) are identified an appropriate course of action can be followed and their potential impact on the proposed development assessed prior to determining any potential mitigation measures. • If abnormal conditions are encountered, Geotechnical/Geo-Environmental advice must be sought (at the earliest practicable opportunity) to determine a suitable source of action.		
<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. GE20584/GARv2/MAR23.</i>		



1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was appointed by Jackson Rowe on behalf of Bellway Homes and Miller Homes (the joint Client) to undertake an investigation of the geo-environmental factors pertaining to the proposed development of land at Park Farm, Boorley Gardens, Winchester Road, Hedge End, Southampton, SO32 2UA (herein referred to as 'the site').

Two phases of intrusive investigation have been undertaken by Geo-Environmental in May 2022, prior to the demolition of buildings and hardstanding at the site, and February 2023 following demolition.

The Park Farm Area lies within the wider Boorley Gardens site. The site's location is presented in Figure 1.

The site has been subject to a desk study and two phases of intrusive investigations undertaken by third parties. Details and an overview of the findings of these reports are summarised in Section 2.1.

1.2 Form of Development

The proposed development is understood to comprise a residential development with private gardens, associated landscaping and public open space, vehicular access and parking provision together with associated development infrastructure. The proposed development is shown on Figure 4.

1.3 Objectives

The investigation was undertaken to update the quantitative risk assessment for soils and controlled waters as well as to provide data for a detailed quantitative ground gas risk assessment (DQGRA) for the site.

A detailed quantitative risk assessment was undertaken as part of this report. The objective of the risk assessment 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 proposed 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 characterisation and remediation from ground gas in affected developments.



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 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 utilised subsequent to that presented herein and 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 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 within 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 must 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.

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 soil mass elsewhere within a site. This report must not be taken as, or assumed to imply, any guarantee that a site is free of hazardous or potentially contaminative materials.

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

A desk study and two phases of third party intrusive investigations have been undertaken for the wider Boorley Gardens site including the Park Farm Area, details of which are provided below:

- Desk Study Report, Ref. E-E1589/LJE/CDS, dated November 2014, prepared by Opus International Consultants (UK) Ltd for Gleeson Developments, Miller Homes and Welbeck Strategic Land LLP;
- Geo Environmental Site Investigation Report, Ref. BRD2924-OR1-C, dated 21st July 2017, prepared by BRD Environmental for Gleeson Strategic Land and Miller Homes;
- Geo-Environmental Report, Ref. CRM.1668.012.GE.R.001.A, dated January 2021, prepared by Enzygo Geoenvironmental for Bellway Homes.

An overview of salient findings of the investigations pertaining to the site to date is presented below. For further information, the original reports should be referred to directly. The factual correctness of third party information is assumed and no liability can be accepted for errors, omissions or inaccuracies in such information within the data reported, or assessment undertaken and based on any such erroneous information. It is assumed that the Client has formal reliance on these third party reports.

Opus (2014)

The report comprised a review of historical mapping and environmental dataset information pertaining to the site, an account of a site walkover and a preliminary risk assessment for the proposed development at the site (stated as up to 680 dwellings, a local centre, a primary school and public open space).

The report identified the underlying geology at the site to comprise Wittering Formation or Earnley Sand in the southern portion of the site. Superficial Alluvium was recorded along the northern site boundary. Reference to the environmental information indicated no radon protection measures were required at the site.

The Wittering Formation and Earnley Sand were classified as Secondary 'A' aquifers. An aquifer status was not reported for the Alluvium. The site was noted to lay outside any Source Protection Zone (SPZ). No groundwater abstractions were recorded within 1km.

The nearest surface water was reportedly a tertiary river running along the northern boundary. The nearest surface water abstraction was recorded c.310m east of the site. The nearest discharge consent was recorded c.45m west and comprised public sewage to a freshwater stream/river. The nearest pollution incident occurred in 1998, c.15m west of the site involving the release of petrol into a storm drain recorded as a minor (Category 3) incident.

No historic or active landfills or waste treatment sites were recorded within 1km of the site. Nine contemporary trade entries were recorded within 100m of the site including general engineers, joinery, road haulage, door manufacturers, macadam laying contractors, gate manufacturers, and pet food and animal feeds.

Historically, the site was reported as predominantly farmland with a railway line on the western boundary throughout the mapping editions reviewed. Park Farm, a complex of farm buildings, was located in the east of the site from the 1960s. Hedge End and Boorley Green became increasingly expanded with predominantly residential developments over the mapped period.

A site walkover was undertaken as part of the desk study. At that time, the site largely comprised grazing pasture for sheep and horses. A number of drainage ditches were noted within the site. A stream was reported on the northern boundary. Park Farm in the east comprised a farmhouse with garden, a milking parlour and various barns utilised for livestock housing and haylage and straw storage. Severally of the barns were noted to be roofed and



clad with what was potentially asbestos cement. Three old 205 litre storage drums were noted adjacent to a lean-to. An above ground oil tank in a was noted in the garden of the farmhouse. An above ground diesel storage tank with integrated bund was recorded adjacent to one of the farm buildings. No visual or olfactory evidence of hydrocarbon contamination was reportedly observed at either tank location. During the walkover survey, a representative from Opus was advised that a horse was buried in one of the paddocks at Park Farm.

The Preliminary Risk Assessment identified the oil and diesel tanks, agrochemicals, manure piles, and asbestos within buildings as potential on-site sources of contamination. The adjacent railway and Braxell Cottage haulage vehicle repair to the east were identified as potential off-site sources. Risk ratings of low to medium were generally assigned to receptors, with a medium risk assigned to future site users in relation to soil contamination, and a medium to high risk assigned in terms of the asbestos containing materials in the farm buildings.

The report recommended a ground investigation including laboratory analysis of soil samples was undertaken.

BRD Environmental (2017)

BRD Environmental's intrusive investigation at the site comprised 31No. machine excavated trial pits to depths of up to 3m bgl and 15No. windowless sample boreholes to depths of 3m to 5m bgl. Soakage testing was undertaken in 6No. trial pits. Combined gas and groundwater monitoring boreholes were installed to 4m bgl in 10No. of the boreholes. Ground gas and groundwater monitoring was undertaken on 6No. occasions during August and September 2017.

The investigation reportedly encountered a mantle of Topsoil or Topsoil containing very low proportions of anthropogenic materials (brick and charcoal) overlying clay soils of the Wittering Formation and London Clay Formation. Made Ground to depths of between 0.20m and 0.25m bgl was reported in two locations (WS5 and WS6) within the yard area of Park Farm in the east of the site. During the return monitoring, groundwater was reported at depths ranging between 0.75m to 2.76m bgl.

A human health risk assessment of the results of geochemical laboratory testing undertaken on soil samples obtained during this investigation reported elevated concentrations of PAH compounds (Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene and Dibenzo(a,h)anthracene) in one location (WS6 at 0.20m bgl) and chrysotile asbestos fibres in two locations (WS5 at 0.10m bgl and WS6 at 0.20m bgl). All elevated contaminant concentrations were recorded within the Made Ground soils encountered in the Park Farm yard. Recommendations were made for further investigation in the Park Farm area of the site to assess the extent of contaminated soils followed by a reduced dig and off-site disposal of impacted soils or re-use under hardstanding (if/where deemed to be suitable).

The BRD Environmental report indicated the only source of ground gases to be natural soils with low organic content and identified the risk as negligible. Nevertheless, ground gas monitoring was undertaken in 10No. boreholes across the site on 6No. occasions between August and September 2017. The monitoring reported methane at concentrations between 0.0% and 0.2%, carbon dioxide between 0.5% and 13.1% and oxygen between 5.2% and 20.3%. Flow rates were recorded between <0.0l/hr and 0.5l/hr. Atmospheric pressure was recorded between 1006mb and 1021mb. Based on the maximum concentrations of carbon dioxide recorded, the report stated the gas regime of the Park Farm area of the site was NHBC Amber 1, for which gas protection measures would be required. The report stated that the area of the site outside Park Farm could be classified Green as elevated carbon dioxide was only recorded in three boreholes (WS3, WS5 and WS6) in or near Park Farm. Recommendations were made for further investigation and gas monitoring in the area of Park Farm to 'delineate' the extent of elevated carbon dioxide concentrations. Zonation of the site in terms of the recorded ground gas concentrations alone is not in line with best practice and a detailed ground gas risk assessment should be undertaken for the site.

The report stated that, the soil contaminant concentrations recorded at the site were not considered to present any significant risk to groundwater.

Enzygo Geoenvironmental (2021)

The report gave an account and interpretation of a supplementary investigation undertaken at the site. The investigation was undertaken in two fields where BRD Environmental were unable to access in 2017 and in the area around Park Farm including additional ground gas monitoring.

The investigation comprised 12No. window sampler boreholes to a maximum depth of up to 5.0m bgl, five of which were in the area surrounding Park Farm. Five boreholes were installed with combined gas and groundwater monitoring standpipes, three of which were in the fields immediately surrounding Park Farm. Ground gas and groundwater monitoring was undertaken on 6No. occasions during January and February 2021. Borehole WS6 from the BRD investigation was also monitored of 4No. occasions.

The investigation recorded Made Ground to between 0.2m to 0.9m bgl in all locations, formed of sandy clay with occasional brick and ash. Clay and sand-based soil of the Wittering Formation were encountered below the Made Ground. Groundwater was recorded at between 2m and 4m bgl during the investigation and between 0.11m and 1.15m bgl during the return monitoring.

Twelve samples of Made Ground were submitted for laboratory testing for a suite of common brownfield contaminants. No elevated contaminant concentrations were identified when screening against Tier 1 assessment criteria by Enzygo, but the report referenced the elevated PAH and asbestos reported within the BRD report. The report recommended removal of the impacted Made Ground identified by BRD in the Park Farm area where soft landscaping is proposed.

The Enzygo report initially identified a negligible risk of ground gases at the site. However, ground gas monitoring was undertaken on 6No. occasions over a one month period. The monitoring recorded methane at <0.1% throughout, carbon dioxide ranging between 0.9% and 16.9% and oxygen between 5.2% and 20.3%. Flows were recorded between <0.0009l/hr and <0.0172l/hr. Atmospheric pressure ranged between 986mb and 1035mb. Carbon dioxide was noted to be recorded in excess of 5% in WS101, WS103, WS105 and WS6. These were attributed to the potential presence of a former cesspit at Park Farm, although no evidence for such a feature was presented. Recommendations were made for the site to be zoned as Characteristic Situation 1 in areas outside of Park Farm and Characteristic Situation 2 within the area of Park Farm, which would require gas protection measures. Again, zonation of the site in terms of the recorded ground gas concentrations alone is not in line with best practice and a detailed ground gas risk assessment should be undertaken for the site.

2.2 Site Description

The Park Farm Area (referred to as 'the site' herein) is located in the northeast of the wider Boorley Gardens site at NGR 450346, 115099. The wider site was noted to comprise a residential development site.

May 2022 Investigation

At the time of the intrusive investigation, the site comprised a farmyard, farmhouse and adjoining grass fields utilised for cattle farming. Topographically, the site sloped very gently downhill to the west.

The farmyard comprised six barns with associated lean-to structures surrounded by concrete hardstanding which was noted to be in poor condition with many cracks evident. The barns were predominantly empty with a tractor and other farm machinery noted within the two northernmost barns. Hay bales were stored in the south-westernmost barns with other barns containing cattle stalls and various non-contaminative agricultural paraphernalia. Seven 10 litre plastic containers of Ad-Blue urea along with approximately 20 empty containers were noted in the easternmost barn. The easternmost two barns were constructed from concrete blocks with corrugated asbestos cement roof sheets. The remaining barns were steel framed with corrugated asbestos cement roof sheets with a mixture of half height concrete panel walls, corrugated steel cladding and corrugated asbestos cement sheet cladding. Asbestos cement rainwater goods were present on most of the barns. Some damage to the asbestos



cement cladding was noted on the western elevation of the northernmost barn, with broken cement fragments noted on the site surface below. All the barns at the site were noted to have concrete floors.

In the west of the farmyard was the partially broken floor slab of a former barn, understood to have been recently removed by the farmer. The external yard areas contained a stack of haylage/silage bales, metal gates, trailers, various agricultural implements and stacks of wooden pallets. To the east of the northernmost barn were several stacks of corrugated asbestos cement sheets, presumably removed from the demolished barn in the west of the farmyard.

To the west of the farmyard stood a two storey brick house surrounded by a garden laid to lawn with a number of small trees and shrubs. Grass fields were located to the south, west and northwest of the farmyard. A septic tank (targeted by WS203) was located in the field to the south, which was understood to be in current usage and to discharge to a ditch on the southern field boundary.

To the northwest of the farmhouse a steel single skin heating oil above ground storage tank (targeted by WS201) raised on brick piers was noted. The tank volume was estimated to be approximately 1,200 litres. No staining or leakage was visually evident on the tank, the piers or the underlying ground surface.

To the northeast of the two easternmost barns, a diesel above ground storage tank (AST) was observed (targeted by WS202). The tank was approximately 2,000 litres in volume, self-bunded and constructed from plastic. Some staining on the tank was noted below the access panel on the front of the tank. It is understood from the farmer that the tank replaced a steel single skin AST which was present from the 1950s.

The farmer also indicated a former cesspit (targeted by WS204) to the west of the farmhouse which overflowed into a septic tank further west (targeted by WS205) which discharged to a drain running through the yard to a ditch to the north of the farmyard. The current septic tank serving the site (targeted by WS203) was located in the field in the south of the site and discharged to a ditch on the southern boundary.

The site boundaries comprised semi-mature and mature trees and hedgerows to the south, east and west with timber close-boarded fencing to the north. Winchester Road was located to the east of the site. A residential development was present to the north. Grass fields, part of the wider Boorley Gardens site, were located to the northwest and west. A construction site, also part of the wider Boorley Gardens site, with parking area, site offices and compound, was located to the south.

An annotated site plan for the May 2022 investigation is included as Figure 3.

February 2023 Investigation

At the time of the intrusive investigation, the site comprised an approximately rectangular shaped area of land which sloped gently downhill to the southwest. The site surface comprised predominantly bare soil with areas covered by gravel and cobble sized fragment of brick, concrete and natural stone. A limited area of hardstanding remained in the east of the site giving access to Winchester Road. An area in the centre of the site, approximately 5m by 2.5m, was secured with mesh fencing and indicated by signage to be soft ground. A stockpile of crushed demolition material was located in the east of the site.

Asbestos cement fragments were observed on the site surface to the west of TP104 (sampled ref. ACM1) and to the north of TP109. These locations are shown on Figure 5. Further asbestos containing materials may be present on the site surface and within soils which were not readily observable.

The site boundaries comprised a hedgerow with Heras fencing within it to the east, timber garden fencing in the eastern half of the northern boundary, and Heras fencing for the remaining boundaries. Timber hoarding was present to the southeast around the Bellway sales area adjacent to the site.



Residential properties lay to the north with Winchester Road to the east. The remaining site surroundings comprised a residential construction site.

Key site features observed during the February 2023 investigation are shown on Figure 5.

A photographic record for both phases of investigation is included in Appendix A.

2.3 Geology

With reference to British Geological Survey (BGS) mapping, the geology of the site was anticipated to comprise Wittering Formation overlying London Clay Formation. No superficial deposits were mapped at the site. In addition, given the previous agricultural land use and nearby development, there remains the possibility that there may be areas of reworked, disturbed or Made Ground across 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, where identified it is not uncommon for asbestos to be present within Made Ground soils.

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 clays and clayey sands with beds of green to brown glauconitic sands. Lignite beds may be encountered towards the base of the formation.

Within the Southampton area the **London Clay Formation** consists predominantly of silty sand sandy clay and silty sand, sporadic claystones occur and thin but persistent bands of rounded flint pebbles occur at the bases of sedimentary cycles.

2.4 Hydrogeology

The Wittering Formation was recorded as Secondary 'A' aquifer and the London Clay was recorded as Unproductive Strata.

Secondary 'A' aquifers are 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. These are generally aquifers formerly classified as minor aquifers.

Unproductive Strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The site was not recorded as being located within a Source Protection Zone.



3.0 GROUND INVESTIGATION

3.1 Scope of Works

The following scope of works for the May 2022 intrusive investigation was agreed with the Client:

- Attendance of a specialist surveyor to undertake a buried utilities clearance 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.
- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- Construction of 5No. dynamic sampler boreholes (WS201 to WS205) to depths of up to 5m bgl targeting above ground storage tanks (ASTs), former cesspit and septic tanks.
- Installation of 5No. ground gas monitoring wells to depths of 5m bgl to facilitate return monitoring.
- Return ground gas and VOC spot monitoring on 3No. occasions between 26th May and 15th June 2022.
- Geochemical laboratory testing on soil and groundwater samples to support the contamination assessment for the site.
- Provision of a Ground Appraisal Report.

A Detailed Quantitative Gas Risk Assessment was also undertaken as part of the 2022 phase of assessments and is presented as a separate report (GE20584/DQGRA/JUN22).

The following scope of works for the February 2023 intrusive investigation was agreed with the Client:

- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- Construction of 13No. machine excavated trial pits (TP101 to TP111) to depths of up to 2.5m bgl targeting areas below former buildings and hardstanding.
- Geochemical laboratory testing on soil samples to support the contamination assessment for the site.
- Provision of an updated Ground Appraisal Report.

3.2 Investigation Strategy

The positioning of exploratory holes was determined on site to target specific areas identified as potential sources of soil contamination and/or ground gases. Table 3.1 sets out the investigation strategy adopted.

Area of Concern	Investigation	Positions
General ground conditions	Exploratory holes located across the site with sampling and laboratory analysis.	All
Potential contamination of near surface soils		All
Heating oil AST (& location post removal)	Exploratory holes with sampling and laboratory analysis.	WS201 (TP111)
Diesel AST (& surrounding area post removal)		WS202 (TP101-TP104)
Current septic tank		WS203
Former cesspit		WS204
Former septic tank		WS205
Gassing regime below the site	Monitoring standpipes installed within boreholes and ground gas monitoring	All



Area of Concern	Investigation	Positions
Areas where asbestos cement was noted by the Demolition Contractor to be present below and bonded to the base of concrete floor slabs	Exploratory hole with sampling and laboratory asbestos screening.	TP103, TP104, TP105, TP107 and TP113
Area where the Demolition Contractor had reported abnormal soil colouration below the former hardstanding	Exploratory hole with sampling and laboratory analysis.	TP110

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 where relevant. 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 section.

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

The physical ground investigation works were undertaken on 19th May 2022 and post-demolition ground investigation works on 13th February 2023.

The locations of the exploratory holes are shown on Figures 2 & 3 for the 2022 investigation and Figure 5 for the 2023 investigation.

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

4.1 Ground Conditions

The ground conditions encountered by the 2022 investigation comprised a mantle of Topsoil or Made Ground overlying Wittering Formation overlying London Clay.

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

Top (m bgl)	Base (m bgl)	Geology	Positions
0.00	0.15 – 0.20	TOPSOIL: Grass over brown fine SAND with varying silt and gravel content; Grass over dark brown sandy slightly gravelly CLAY with rare rootlets. Rootlets present throughout.	WS201, WS202, WS204 & WS205
0.00	0.30	MADE GROUND: Grass over brown silty slightly gravelly fine sand with some gravel sized brick and lime mortar fragments.	WS203
0.15 – 0.30	3.60 – 4.10	WITTERING FORMATION: CLAY with low to medium proportions of sand and gravel and, less commonly, silt. CLAY with no secondary constituents recorded at depth along with layers containing mudstone gravel or lithorelicts. Colouration was various combinations of grey, brown, orange, orange brown, grey brown, light brown and yellow brown.	All
3.60 – 4.10	>5.00	LONDON CLAY FORMATION: Grey or brown CLAY or silty CLAY.	All

Table 4.1 Summary of Ground Conditions (2022 Investigation)

Visual and olfactory evidence of hydrocarbon contamination was recorded in WS202 as detailed below:

- 0.00m to 0.20m bgl – Faint diesel odour in Topsoil;
- 0.20m to 2.20m bgl – Mild diesel odour. Greenish hue possible staining;
- 2.20m to 3.50m bgl – Faint diesel odour.

The ground conditions encountered by the 2023 investigation comprised Made Ground overlying Wittering Formation. A generalised summary of the encountered shallow ground conditions is presented in Table 4.2.



Top (m bgl)	Base (m bgl)	Geology	Positions
0.00	0.10 – 0.55	MADE GROUND: Typically clay with varying proportions of sandy and gravel. Less commonly clayey or silty gravelly sand (TP107 & TP109), silty sand and gravel (TP109), and sandy silt (TP110). Gravel and cobble sized anthropogenic material noted in typically low proportions including brick and concrete, and less frequently asphalt, wire, metal, timber and ceramic tile. Colouration typically brown or dark brown, less commonly dark grey, black and grey, and reddish brown. One piece of corrugated cement [sampled ACM3] in TP112.	All except TP106
0.00 – 0.55	>1.30 – >2.50	WITTERING FORMATION: CLAY with low to medium proportions of sand and low to zero gravel content. CLAY with no secondary constituents occasionally recorded. Colouration was various combinations of yellow brown, orange brown, light grey, pale grey and greenish grey. Consistency ranged between soft and stiff.	All

Table 4.2 Summary of Ground Conditions (2023 Investigation)

Visual and olfactory evidence of contamination was recorded during the 2023 investigation as detailed in Table 4.3.

Location	Depth (m bgl)	Evidence
TP102	1.00 – 1.60	Slight hydrocarbon odour
TP103	1.40 – 2.30	Slight hydrocarbon odour
TP112	0.00 – 0.30	One piece of corrugated asbestos cement (sampled ACM3)
West of TP104	Surface	Asbestos cement fragments (sampled ACM1)
North of TP109	Surface	Presumed asbestos cement fragments

Table 4.3 Summary of Visual and Olfactory Evidence of Contamination (2023 Investigation)

For more detailed descriptions of the ground conditions at specific locations, reference should be made to the exploratory hole logs presented in Appendix B.

4.2 Groundwater

Groundwater was encountered during the May 2022 investigation as summarised in Table 4.4.

Location	Strike Depth (m bgl)	Depth After 20 Minutes (m bgl)
WS202	2.00	1.20
WS203	1.45	1.30
WS205	1.15	0.90

Table 4.4 Groundwater Summary (2022 Investigation)

Groundwater monitoring was undertaken within the borehole standpipes of three occasions between 26th May and 15th June 2022. The results are summarised in Table 4.5.

Location	Depth to water (m bgl)		
	26/05/2022	08/06/2022	15/06/2022
WS201	2.98	2.08	1.97
WS202	1.45	1.00	1.42
WS203	1.19	1.19	1.27
WS204	3.51	1.90	1.65
WS205	0.88	0.66	0.59

Table 4.5 Summary of Groundwater Encountered within Monitoring Wells



Groundwater was encountered during the February 2023 investigation as summarised in Table 4.6.

Location	Depth (m bgl)	Comments
TP101	1.50	Slow inflow
TP102	1.70	Moderate inflow
TP104	1.60	Slow inflow, slight sheen on water
TP104	1.30	Slow inflow, standing at 1.35m after 15 minutes
TP112	1.60	Slow inflow
TP113	1.80	Slow inflow

Table 4.6 Groundwater Summary (2023 Investigation)

4.3 Obstructions

No obstructions were encountered during the two phases of intrusive investigation works undertaken. The presence of natural and/or manmade obstructions elsewhere on site cannot be discounted.

4.4 Geochemical 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 supported by the joint National House Building Council (NHBC), Environment Agency (EA) and Chartered Institute of Environmental Health (CIEH) publication, *'Guidance for the Safe Development of Housing on Land Affected by Contamination'* (2008).

Soil samples were placed into plastic containers for general inorganic analysis and into amber jars for organic analysis. 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 the laboratory's protocols.

Representative samples of Topsoil, Made Ground and natural soils were submitted for analysis for a suite of commonly occurring brownfield contaminants, including asbestos, with selected samples submitted for total petroleum hydrocarbon (TPH), VOC and SVOC testing. A groundwater sample was also obtained from WS202 and submitted for analysis for a suite of commonly occurring brownfield contaminants including metals, PAH, TPH, VOC and SVOC.

4.5 Ground Gas and Vapour Monitoring

Three return 'spot' ground gas monitoring visits have been undertaken on 26th May, 8th June and 15th June 2022. Monitoring was undertaken within standpipes installed within dynamic windowless sampler boreholes WS201 to WS205. These locations were selected to target potential sources of ground gases/vapours.

The spot monitoring undertaken to date detected the presence of methane between 0.1% and 4.6%. Carbon dioxide has been detected at concentrations in the range of 0.0% to 6.3% and oxygen in the range 0.2% to 21.0%. Borehole flows were measured at 0.0l/hr throughout. VOCs were recorded up to 19.2ppm during the monitoring. Atmospheric pressure was recorded between 1002mb and 1023mb during the visits undertaken to date.

The gas monitoring results are included as Appendix D. The implications of the gas monitoring data are considered in Section 5 of this report.



5.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) utilising the results of the two phases of ground investigation was undertaken in accordance with LCRM, the findings of which are presented in the following sections.

5.1 Environmental Risk Assessment

A number of plausible pollutant linkages were identified within the Desk Study Report and previous third party reports for the site. The investigation did not encounter conditions that warranted a revision of the preliminary Conceptual Site Model.

5.2 Ground Gases

A Detailed Quantitative Gas Risk Assessment has been undertaken by Geo-Environmental for the site (ref. GE20584/DQGRA/JUN22, dated 30th June 2022). The assessment was based on the findings of this latest investigation and the investigations and reported detailed in Section 2.1.

The assessment considered that no potential sources of bulk gas generation were present at the site and that the recorded methane and carbon dioxide by monitoring undertaken to date was resultant from the presence of localised hydrocarbon contamination (WS202) and the long-term use of the site for livestock farming which did not represent a risk to the proposed development.

The assessment concluded that the site should be considered a Characteristic Situation 1 classification, with no requirement for gas protection measures. For further details reference should be made to the DQGRA report.

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 accordance with LCRM, 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 Tier 1 screening criteria in the first instance. These criteria comprise the Atkins ATRISK soil screening values (SSVs), the Suitable for Use Levels (S4ULs) published by LQM (Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3453. All rights reserved) and the Category 4 Screening Levels (C4SLs) published by DEFRA. 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 SSVs and S4ULs (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.

The exploratory holes were targeted to specific areas identified as potential sources of soil contamination. Samples were selected to provide coverage of these areas and where visible or olfactory evidence of contamination was recorded on site. Analysis was undertaken on soil samples collected from these exploratory holes, comprising Topsoil, Made Ground and natural soils.

In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria where available. Table 5.1 shows the exceedances identified on site above the respective generic guideline values for a proposed residential land use with plant uptake. Asbestos containing materials observed are also summarised in Table 5.1.



Determinand	Tier 1 Criteria (mg/kg)	Location	Depth (m bgl)	Concentration (mg/kg)	Geology
Aromatic TPH >C12-C16	165 – SSV (1% SOM) 268 – SSAC	WS202	1.00	210	Wittering Formation
2,6-Dinitrotoluene	0.902 – SSV (1% SOM) 111 – SSAC	WS202	1.00	3.0	Wittering Formation
Lead	200 – C4SL 201 – SSAC	TP107	0.10	432	Made Ground
Benzo(b)fluoranthene	3.3 – S4UL (2.5% SOM) 4.94 – SSAC	TP107	0.10	12.4	Made Ground
Benzo(a)pyrene	2.7 – S4UL (2.5% SOM) 4.96 – SSAC	TP107	0.10	10.3	Made Ground
Dibenzo(ah)anthracene	0.28 – S4UL (2.5% SOM) 0.393 – SSAC	TP107	0.10	1.25	Made Ground
Asbestos	None	West of TP104 ref. ACM1	Surface	Asbestos cement (chrysotile)	-
		TP112 ref, ACM3	0.00 – 0.30	Asbestos cement (chrysotile)	Made Ground

Table 5.1 Summary of contaminant exceedances above respective threshold for a residential end use

The results were assessed further in order to clarify the initial screening assessment, through the development of Site Specific Assessment Criteria (SSAC). The generated SSAC are shown within Table 5.1 for ease of comparison. SSAC were developed for soils where the Tier 1 exceedances were identified.

The assumptions made as part of the CLEA v1.07 calculations for a residential end use with plant uptake are presented in Table 5.2 (Wittering Formation soils) and Table 5.3 (Made Ground soils). Copies of the CLEA calculations are enclosed in Appendix C.

	Assumptions			Comments
Land Use	Residential with home grown produce			Commensurate with proposed residential development.
Receptor	Female (res)			A conservative assumption using the most sensitive possible receptor.
Receptor Age	1 to 6			Critical receptor age from birth to age 6.
Building	Semi-detached House			A conservative assumption of the private residence use proposed.
Soil Type	Sandy clay loam	pH 8.3	SOM 0.62%	Based on the geochemical test results.
Exposure Pathways	Oral	Direct soil & dust ingestion; consumption of home grown produce; soil attached to home grown produce		Default setting for land use.
	Dermal	Indoor & outdoor		Default setting for land use.
	Inhalation	Indoor & outdoor dust & vapour		Default setting for land use.
Occupancy	days/year	hours/day (indoors)	hour/day (outdoors)	Default settings for the critical receptor.
	180 - 365	19 - 23	1	

Table 5.2 Assumptions for SSAC Calculation – Wittering Formation Soils (CLEA v1.07 Software)



	Assumptions			Comments
Land Use	Residential with home grown produce			Commensurate with proposed residential development.
Receptor	Female (res)			A conservative assumption using the most sensitive possible receptor.
Receptor Age	1 to 6			Critical receptor age from birth to age 6.
Building	Semi-detached House			A conservative assumption of the private residence use proposed.
Soil Type	Sandy clay loam	pH 8.9	SOM 2.50%	Based on the geochemical test results.
Exposure Pathways	Oral	Direct soil & dust ingestion; consumption of home grown produce; soil attached to home grown produce		Default setting for land use.
	Dermal	Indoor & outdoor		Default setting for land use.
	Inhalation	Indoor & outdoor dust & vapour		Default setting for land use.
Occupancy	days/year	hours/day (indoors)	hour/day (outdoors)	Default settings for the critical receptor.
	180 - 365	19 - 23	1	

Table 5.3 Assumptions for SSAC Calculation – Made Ground Soils (CLEA v1.07 Software)

The tier 1 exceedances were screened against the Site Specific Assessment Criteria (SSAC) calculated for the site. The initial exceedances were found to be below the SSAC for Wittering Formation soils, however the recorded Lead and PAH (Benzo(b)fluoranthene, Benzo(a)pyrene, and Dibenzo(ah)anthracene) exceedances within the Made Ground soils were found to exceed the SSAC.

Geochemical testing of the shallow soils sampled has not returned any positive identification for asbestos. However, visible asbestos cement fragments have been identified within the Made Ground soils in TP112 and in two locations on the site surface (see Figure 5). It must be noted that further asbestos containing materials may be present on the site surface and within soils which were not readily observable or between points of investigation.

Elevated Lead and PAH concentrations have been recorded within the Made Ground soils in one location and visible asbestos cement fragments have been recorded within Made Ground soil and in two locations on the site surface. Additionally, elevated PAH concentrations and asbestos were recorded during a previous phase of investigation within the Made Ground soils in the Park Farm area.

A remediation strategy and verification plan has been developed for the site based on the results of the previous third party investigations and the two phases of investigation undertaken by Geo-Environmental (ref. GE20346/RSVPv4/MAR23). The strategy sets out a reduced dig exercise to remove the Lead, PAH and asbestos containing Made Ground from within proposed private gardens and areas of soft landscaping.

All work with asbestos containing materials and asbestos containing soils should be undertaken by a suitably competent contractor who should prepare an asbestos specific risk assessment and plan of work detailing the control measures to be applied when working with the asbestos containing materials/soils. The contractor should also assess whether the work would be considered licensable and/or notifiable under the Control of Asbestos Regulations 2012.

5.4 Soil Contamination vs. Adjacent land Users

Surrounding land uses were identified as residential and open land to be developed for residential usage. On the basis of the testing undertaken to date and the proposed remediation at the site, it is considered that no significant



risks to adjacent land users exist in relation to on-site soils.

However, it is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the construction phases on site in order to minimise the potential for airborne migration of specific hazards and to manage potential nuisance issues for adjacent land users.

Control measures to keep asbestos fibre release as low as reasonably practicable will be required where working with asbestos containing materials and asbestos containing soils and should be planned and detailed in an asbestos specific risk assessment and plan of work.

5.5 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil* 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 5.4 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 5.4 Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not record any contaminant concentrations which exceeded the assessment criteria for phytotoxicity. Therefore, no further action is required in this respect.

5.6 Soil Contamination vs. Building Materials

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 has 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 this investigation have been compared with the proposed thresholds published in UKWIR Table 3.1. The analysis undertaken has identified barrier pipe would be required within the area of WS202, TP101, TP102, TP103 and TP104 due to recorded TPH in the C11-C20 range and SVOC concentrations. This is likely associated with the former diesel AST in this location. The remaining analysis indicates that PE pipework would likely be suitable in other areas of the site.

The utility company should be consulted in order to confirm their specific requirements in this respect.

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 site overlies a Secondary 'A' Aquifer (Wittering Formation) and Unproductive Strata (London Clay Formation).



A former heating oil AST (WS201 and TP111), former plastic diesel AST and historic metal diesel AST (in the same location, WS202 & TP101-TP104) have been identified at the site and subjected to targeted investigations. Groundwater has been recorded at depths of between 0.59m and 2.98m bgl during return monitoring.

No evidence of gross soil impact or significant potentially mobile contaminants was recorded during the investigations, with the exception of diesel odour and potential staining to a depth of 3.50m bgl in WS202 located directly adjacent to the current and historic diesel ASTs. Geochemical testing of soil samples in this location recorded TPH concentrations above the laboratory limit of detection at 1.00m bgl with TPH concentrations below the limit of detection at 3.70m bgl. During the 2023 post demolition investigation, following removal of the tank, slight hydrocarbon odours were noted in TP102 and TP103 to depths of 1.60m and 2.30m bgl respectively. Trial pits TP101-TP104 were located in the area surrounding the former tank location to assess the lateral extent of any hydrocarbon impact. Geochemical testing of soil samples from these trial pits recorded TPH concentrations above the laboratory limit of detection (albeit it at relatively low concentrations) in TP101 at 1.50m bgl, TP102 at 1.80m bgl, TP103 at 1.50m bgl and TP104 at 1.50m bgl. TPH concentrations were recorded below the laboratory limit of detection at 2.40m bgl in TP103 from soils below the highest recorded TPH concentrations. These results are likely to be representative of historic long term minor diesel spillage associated with the former diesel tank, which has now been removed, and thus the residual soil impact would be expected to degrade naturally over time.

A groundwater sample was obtained from WS202 on 8th June 2022 to assess the groundwater quality in the area of the diesel AST.

The results of the groundwater analyses were compared against the Environmental Quality Standards for freshwater (EQS), Water Framework Directive and the Water Supply (Water Quality) Regulations 2000. A summary of contaminant concentrations encountered above the respective EQS, WFD and DWS guideline values, where values are set is presented in Table 5.5 below.

Determinand	Guideline Value (µg/l)	Location	Concentration (µg/l)
Arsenic	50 ^{EQS}	WS202	93
Cadmium	5 ^{EQS}		14
Nickel	50 ^{EQS}		360
Lead	50 ^{EQS}		1000
Selenium	10 ^{EQS}		84
Isopropylbenzene	NGV		100
N-Propylbenzene	NGV		61
1,2,4-Trimethylbenzene	NGV		50

NOTES: EQS - Environmental Quality Standards for freshwater; NGV – no guideline value available

Table 5.5 Contaminant exceedances within Groundwater analysis

Assessment of the groundwater results has identified elevated Arsenic, Cadmium, Nickel, Lead and Selenium against the relevant guideline values. Three VOC compounds were also recorded above the laboratory limit of detection for which no guideline values were available. No other VOC or SVOC compounds were recorded above the limit of detection in the groundwater sample tested. TPH was also not recorded above the limited of detection.

The elevated metal concentrations are considered to be representative of general background groundwater quality in the area of the site. No source of gross metal contamination has been identified within the Park Farm area or the wider Boorley Gardens site and no elevated metal concentrations were recorded in soil samples to date. The recorded VOC compounds are potentially associated with the natural breakdown and degradation of minor spillages of fuels at the site, including the recorded diesel usage, but also including potential historical usage of more volatile petrol and petrol paraffin oil mixtures (tractor vaporising oil).

The former tanks identified on site have been removed from the site as part of the demolition works prior to redevelopment. As such, the potential sources of continuing groundwater contamination from the site are no longer



present and it is considered that natural attenuation of organic contamination would also continue. Therefore, it is considered that no specific remediation is required in terms of risks to groundwater at this stage.

Should significant hydrocarbon contamination within the soils or free product be identified beneath the site, it is recommended that this be removed and/or treated to reduce the presence of an ongoing potential source on the site.

5.8 Groundwater Contamination vs End Users

The results of the groundwater analysis have been compared against the 'Atkins Water Screening Values for a Residential Land Use' (2011) to assess the vapour risk to end users from groundwater beneath the site.

No TPH or VOC concentrations were recorded above the relevant screening value. As such, it is considered that no specific protection measures are considered likely to be required in this respect.

5.9 Groundwater Contamination vs Soft Landscaping

Groundwater was encountered at varying depths within the Wittering Formation beneath the site noted between 0.59m and 2.98m bgl during investigation works and as such was considered to be predominantly outside of the primary root zone of influence for the soft landscaping on the site. Notwithstanding this, the vegetation on and around the site showed no evidence of stress. As such, it is considered that no specific action is warranted with respect to soft landscaping.

5.10 Groundwater Contamination vs Built Environment

Recommendations for the Built Environment as discussed in Section 5.6 are considered appropriate.

5.11 Waste Disposal

The soil analyses from both phases of Geo-Environmental's investigations (pre and post demolition) were assessed using HazWasteOnline software. An asbestos cement fragment was recorded within Made Ground soils in TP112. The concentration of fibres within the cement may be up to 25% (based on Appendix 2 of HSG264 Asbestos: The Survey Guide) and this concentration was used for the assessment.

The following samples were indicated as hazardous waste or hazardous mixed waste:

- WS202 at 1.00m bgl, natural soils – due to the recorded TPH concentration (List of Waste (LoW) Code 17 05 03* *Soil and stones containing hazardous substances* (hazardous waste);
- TP112 at 0.10m bgl, Made Ground – due to the recorded asbestos cement fragment observed (LoW Code 17 05 04 *Soil and stones other than those mentioned in 17 05 03** (non-hazardous waste) and LoW Code 17 06 05* *Construction materials containing asbestos* (hazardous waste) for the visible asbestos cement within the soils.

None of the other samples of Made Ground and natural soils assessed were indicated to represent potentially hazardous waste. The LoW Code for these soils is considered to be 17 05 04 *Soil and stones other than those mentioned in 17 05 03** (non-hazardous waste). The HazWasteOnline assessment is included within Appendix E.

It must be noted that fragments of asbestos cement were noted on the site surface in two locations during the 2023 investigation. These fragments would comprise hazardous waste and where entrained within soils, would render those soils a hazardous mixed waste. Further asbestos containing materials may be present on the site surface and within soils which were not readily observable or between points of investigation. Hand picking of visible asbestos containing materials may reduce the volume of hazardous mixed waste present. However, this activity should be carried out by a suitably competent contractor who should prepare an asbestos specific risk assessment and plan



of work detailing the control measures to be applied when working with the asbestos containing materials/soils. The contractor should also assess whether the work would be considered licensable and/or notifiable under the Control of Asbestos Regulations 2012.

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 waste categorisation and WAC 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 Material Management Plan that confirms the above criteria are met has to be prepared. The Material Management Plan must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. 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 re-use 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 demolition or remediation process may require disposal separately. All materials containing dangerous substances e.g. tar or bitumen, asbestos, mercury, hydrocarbons and PCBs 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 soil 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, 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 soils 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 regulatory consultation with the client, other technical personnel and/or regulatory/appraisal 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 an Officer 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 shown overleaf.

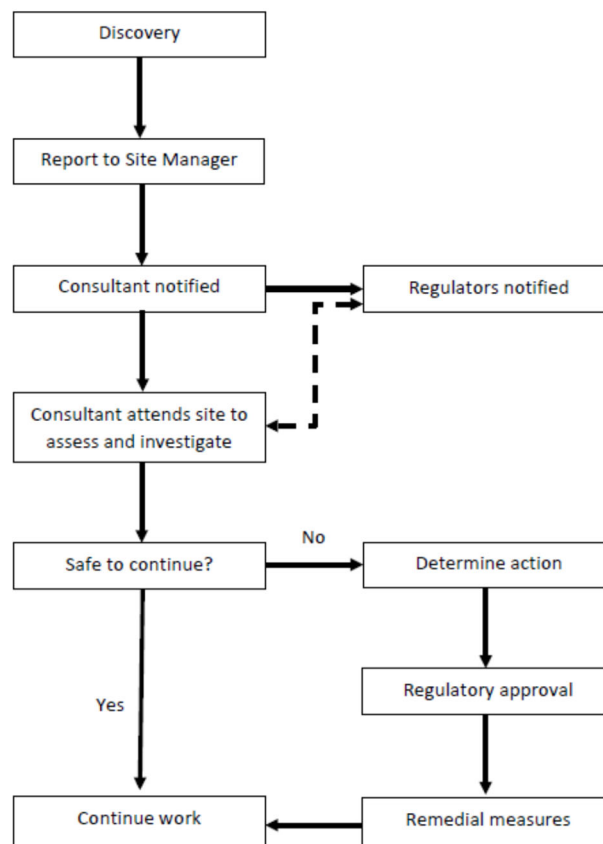
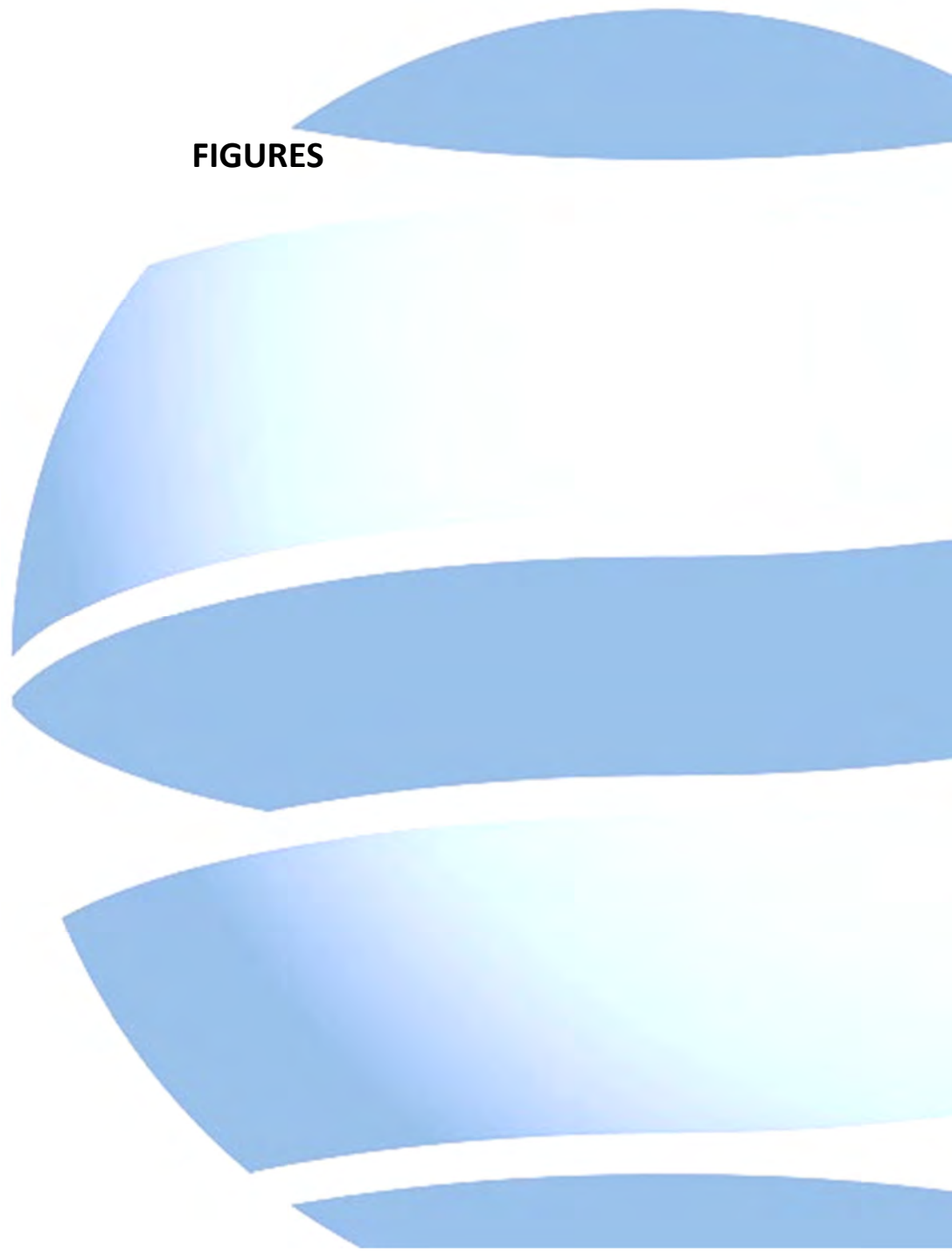


Chart 1 Discovery Strategy Process

A copy of this strategy will 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 or contaminated materials they may encounter.

FIGURES





Project:	Park Farm, Winchester Road, Southampton, SO32 2BX			Title	Site Location Plan	
Client:	Bellway Homes & Miller Homes			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:	GE20584	Revision:	1			
Drawn:	SA	Date:	20/06/2022			
Figure:	1	Scale:	Not To Scale			



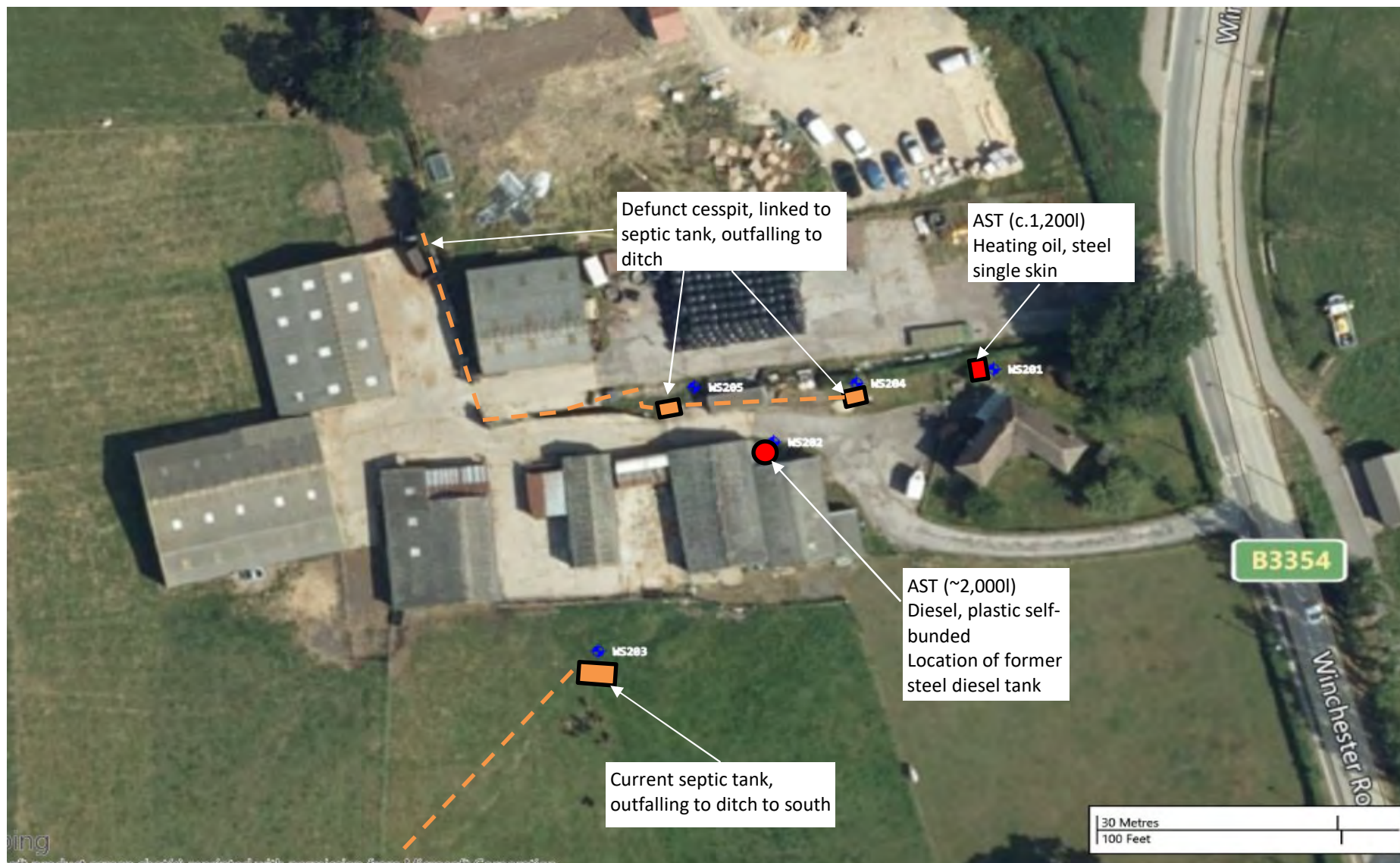
Project Title: Boorley Gardens
Location : Winchester Road, Hedge End
Project No. : GE20584
Client : Bellway Homes & Miller Homes

Title : Figure 2 - Exploratory Hole Location Plan
Scale: 1:750
Engineer: SA



- Legend Key
- Locations By Type - Empty
 - ◆ Locations By Type - WLS



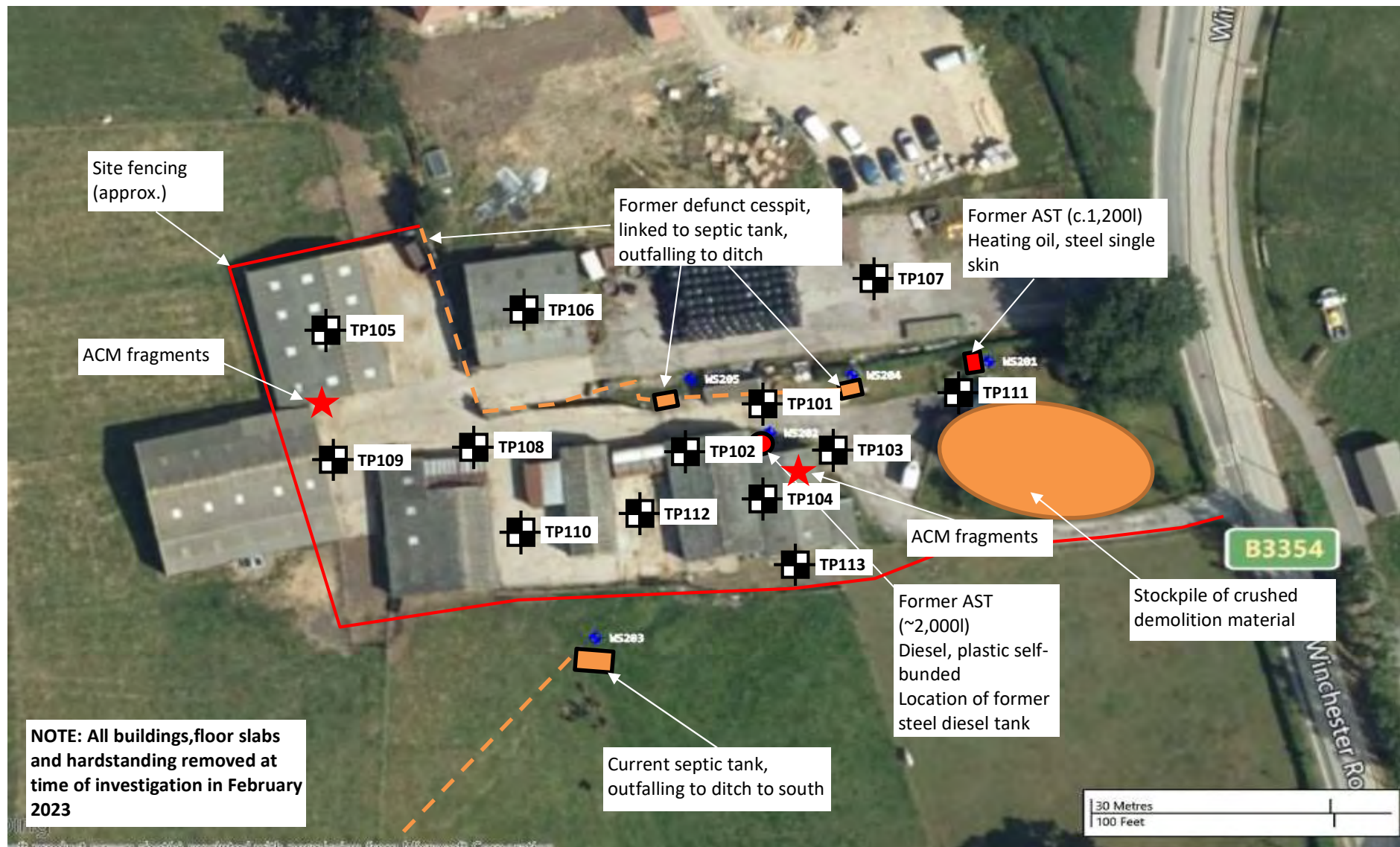


Project:	Park Farm, Winchester Road, Southampton, SO32 2BX			Title	Annotated Site Plan	
Client:	Bellway Homes & Miller Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE20584	Revision:	0			
Drawn:	SA	Date:	20/05/2022			
Figure:	3	Scale:	Not To Scale			

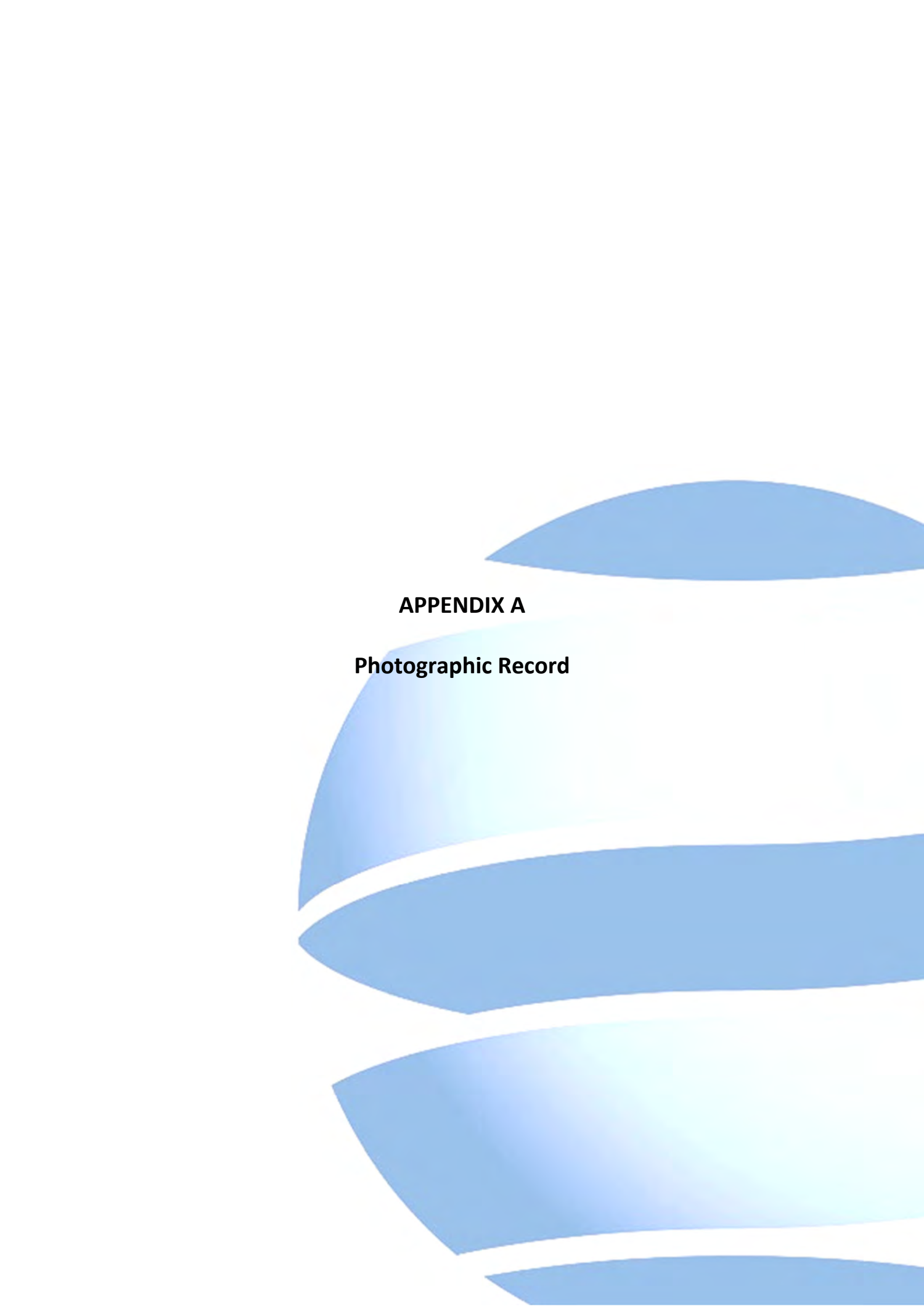


Project:	Park Farm, Winchester Road, Southampton, SO32 2BX			Title	Proposed Development Plan	
Client:	Bellway Homes & Miller Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE20584	Revision:	0			
Drawn:	SA	Date:	20/06/2022			
Figure:	4	Scale:	Not To Scale			





Project:	Park Farm, Winchester Road, Southampton, SO32 2BX			Title	Exploratory Hole Location Plan (post demolition investigation)		
Client:	Bellway Homes & Miller Homes			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:	GE20584	Revision:	0				
Drawn:	SA	Date:	15/02/2023				
Figure:	5	Scale:	Not To Scale				

The background of the page features a series of overlapping, wavy, horizontal bands in shades of light blue and white, creating a sense of movement and depth. The waves are more pronounced on the right side of the page, while the left side is mostly white.

APPENDIX A

Photographic Record



Plate 1 – View east across the site



Plate 2 – View north across the site



Plate 3 – View west across the site



Plate 4 – View east across the site



Plate 5 – View northeast across the site



Plate 6 – Broken concrete from the former barn floor slab



Plate 7 – View northeast across the site



Plate 8 – View southeast across the site



Plate 9 – Farmhouse in the east of the site



Plate 10 – Heating oil AST



Plate 11 – Diesel AST and location of former steel diesel AST



Plate 12 – Former cesspit location (concrete slab behind pole)



Plate 13 – Defunct septic tank location



Plate 14 – Current septic tank in south of the site



Plate 15 – Adblue urea storage in the easternmost barn



Plate 16 – Broken asbestos cement adjacent to western elevation of the northernmost barn



Plate 17 – Stacks of asbestos cement east of the northernmost barn



Plate 1 – View east across the site



Plate 2 – View northeast across the site



Plate 3 – View north across the west part of the site



Plate 4 – View southeast across the site



Plate 5 – Area of soft ground in the centre of the site



Plate 6 – View west across the site



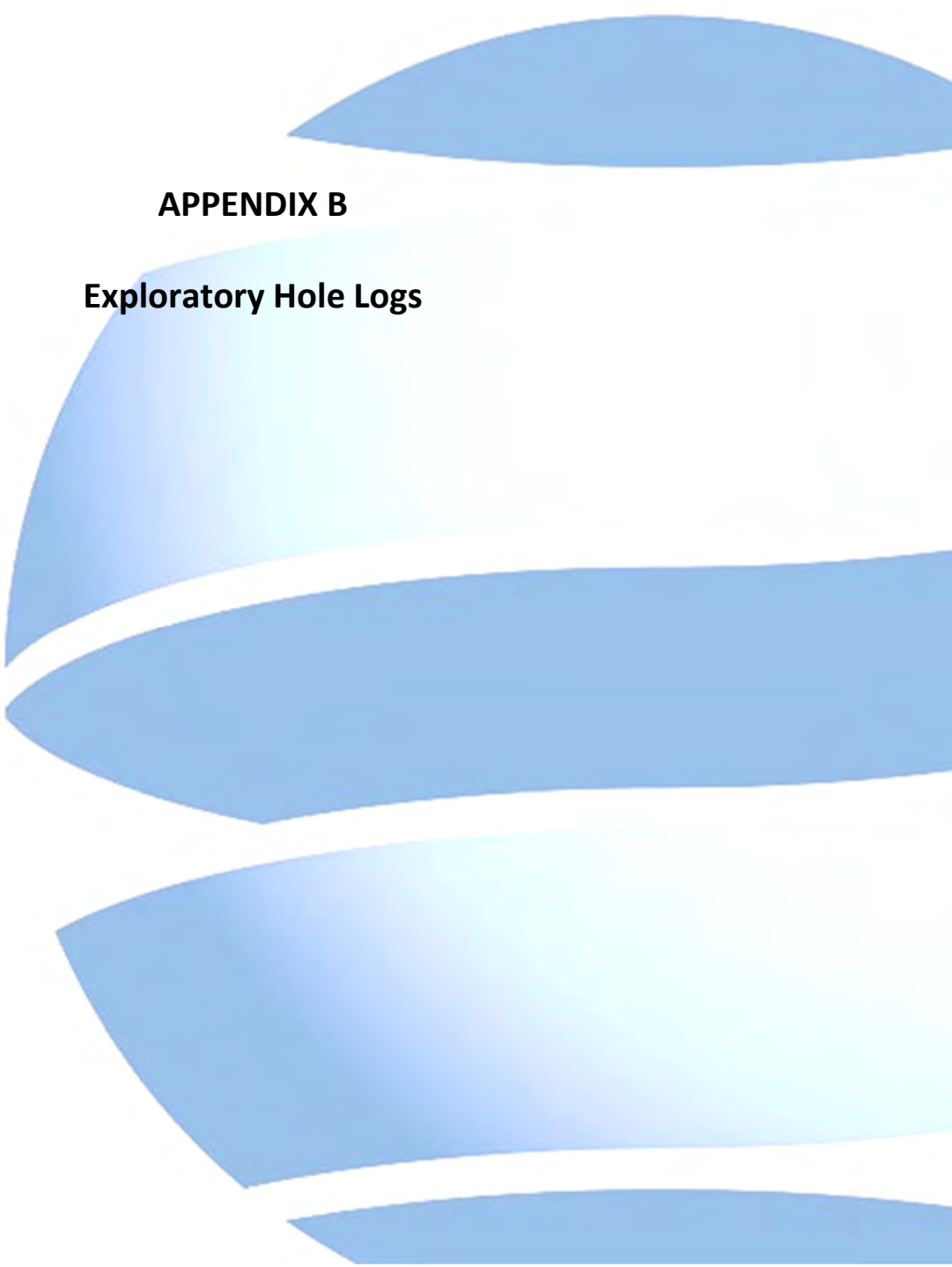
Plate 7 – View south of the crushed demolition material stockpile and hardstanding in the east of the site



Plate 8 – Potential asbestos cement fragments west of TP104 on site surface



Plate 9 – Potential asbestos cement fragments north of TP109 on site surface



APPENDIX B

Exploratory Hole Logs



Geo-Environmental www.gesl.net

Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS201

Sheet 1 of 2

Project Name: Boorley Gardens

Project No.
GE20584

Co-ords: 450384E - 115103N

Hole Type
WLS

Location: Winchester Road, Hedge End

Level: 28.80

Scale
1:25

Client: Bellway Homes & Miller Homes

Dates: 19/05/2022

Logged By
SA

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	28.60		Grass over brown very silty slightly gravelly fine SAND with some rootlets. TOPSOIL	1
		0.50	PP	1.2kg/cm2				Firm mottled yellow brown, orange and light grey slightly sandy CLAY. Occasional 1-4mm roots to 1.0m. WITTERING FORMATION	
		0.70	ES						
		1.00	D						2
		1.00	PP	1.0kg/cm2	1.25	27.55		Stiff mottled yellow brown, orange and light grey CLAY. WITTERING FORMATION	
		1.50	PP	1.8kg/cm2					
		2.00	D						3
		2.00	PP	2.2kg/cm2	2.20	26.60		Stiff pale grey occasionally brown and orange CLAY. WITTERING FORMATION	
		2.50	PP	2.2kg/cm2					
		2.75	ES		2.75	26.05		Firm friable brown and dark brown silty CLAY. WITTERING FORMATION	4
		3.00	D		2.85	25.95		Very stiff grey brown with occasional orange pockets CLAY. WITTERING FORMATION	
		3.00	PP	3.2kg/cm2					
		3.50	PP	3.2kg/cm2	3.60	25.20		Stiff grey slightly silty CLAY. LONDON CLAY	5
		4.00	D						
		4.00	PP	2.2kg/cm2					
		4.50	PP	2.8kg/cm2					
		5.00	D		5.00	23.80		Continued on Next Sheet	

Dynamic Sampling Run Details			Water Strike - Details		Remarks	
Depth Top	Depth Base	Diameter	Depth Water Value	Depth Water		
					No groundwater encountered. Monitoring standpipe installed	



www.gesl.net

Borehole Log

WS201

Sheet 2 of 2

Project Name: Boorley Gardens

Project No.
GE20584

Co-ords: 450384E - 115103N

Hole Type	WLS
-----------	-----

Location: Winchester Road, Hedge End

Level:	28.80
--------	-------

Scale
1:25

Client: Bellway Homes & Miller Homes

Dates: 19/05/2022

Logged By
SA

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00	PP	2.0kg/cm2				End of Borehole at 5.00m

Dynamic Sampling Run Details			Water Strike - Details		Remarks
Depth Top	Depth Base	Diameter	Depth Water Value	Depth Water	
					No groundwater encountered. Monitoring standpipe installed





Geo-Environmental www.gesl.net

Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS202

Sheet 1 of 1

Project Name: Boorley Gardens

Project No.
GE20584

Co-ords: 450357E - 115093N

Hole Type
WLS

Location: Winchester Road, Hedge End

Level: 28.20

Scale
1:25

Client: Bellway Homes & Miller Homes

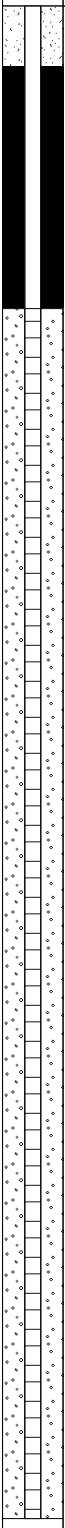
Dates: 19/05/2022

Logged By
SA

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	28.00		Grass over dark brown sandy slightly gravelly CLAY with rare rootlets. Faint diesel odour. TOPSOIL	
		0.50	PP	0.5kg/cm2				Soft to firm mottled greenish grey, brown and orange brown sandy CLAY. Mild diesel odour. Greenish hue possible straining. Dead root at 1m. WITTERING FORMATION	
		1.00	ES						1
		1.00	PP	0.5kg/cm2					
		1.50	PP	0.5kg/cm2					
		2.00	PP	0.5kg/cm2					2
		2.40 - 2.60	ES		2.20	26.00		Firm mottled light grey and yellow brown CLAY. Faint diesel odour. WITTERING FORMATION	
		2.50	PP	1.2kg/cm2					
		3.00	PP	1.2kg/cm2					3
		3.50	PP	1.5kg/cm2	3.50	24.70		Stiff mottled light grey and yellow brown CLAY. WITTERING FORMATION	
		3.70 - 3.90	ES						
		4.00	PP	2.0kg/cm2	4.00	24.20		No recovery	4
					4.60	23.60		Very stiff brown CLAY. LONDON CLAY	
		5.00	PP	3.5kg/cm2	5.00	23.20		End of Borehole at 5.00m	5

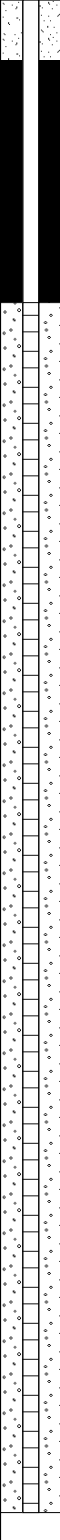
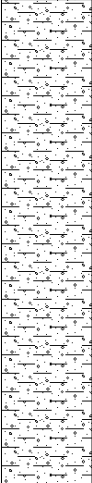
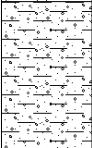
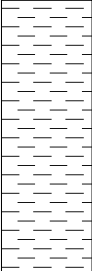
Dynamic Sampling Run Details			Water Strike - Details		Remarks	
Depth Top	Depth Base	Diameter	Depth Water Value	Depth Water		
			1.20	1.200	Groundwater at 2.0m rising to 1.2m after 20 minutes. Monitoring standpipe installed	

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS203 Sheet 1 of 1	
Project Name: Boorley Gardens		Project No. GE20584		Co-ords: 450335E - 115065N		Hole Type WLS	
Location: Winchester Road, Hedge End				Level: 26.94		Scale 1:25	
Client: Bellway Homes & Miller Homes				Dates: 19/05/2022		Logged By SA	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	26.64	Grass over brown silty slightly gravelly fine sand with some gravel sized brick and lime mortar fragments. MADE GROUND	1	
		0.50 0.60	PP ES	0.8kg/cm2			Soft brown, yellow brown and orange brown very sandy slightly gravelly CLAY. Sand is fine, gravel is fmc subangular flint. WITTERING FORMATION		
		1.00 1.00	D PP	0.2kg/cm2	1.50	25.44	Firm orange with light grey mottling slightly sandy CLAY. WITTERING FORMATION	2	
		1.50 1.50	ES PP	1.2kg/cm2			Stiff mottled pale grey, orange brown and yellow brown CLAY. WITTERING FORMATION		
		2.00 2.00	D PP	2.5kg/cm2	2.80	24.14	Stiff friable dark brown very gravelly CLAY. Gravel is fine and medium subangular extremely weak mudstone. WITTERING FORMATION	3	
		2.50	PP	2.0kg/cm2			Very stiff grey CLAY. LONDON CLAY		
		3.00 3.00	D PP	2.8kg/cm2	3.40	23.54	No recovery.	4	
		3.50	PP	2.0kg/cm2			Firm grey CLAY. LONDON CLAY		
		4.00 4.00	D PP	3.0kg/cm2	4.40	22.54		5	
		4.50	PP	1.5kg/cm2					
		5.00	PP	2.5kg/cm2	5.00	21.94	End of Borehole at 5.00m		

Dynamic Sampling Run Details			Water Strike - Details		Remarks
Depth Top	Depth Base	Diameter	Depth Water Value	Depth Water	
			1.30	1.300	

Groundwater at 1.45m rising to 1.30m after 20 minutes. Monitoring standpipe installed
 

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net			Borehole Log				Borehole No. WS204 Sheet 1 of 1			
Project Name: Boorley Gardens			Project No. GE20584		Co-ords: 450367E - 115101N		Hole Type WLS			
Location: Winchester Road, Hedge End					Level: 28.56		Scale 1:25			
Client: Bellway Homes & Miller Homes					Dates: 19/05/2022		Logged By SA			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.20	28.36	 Grass over brown silty gravelly fine SAND with occasional rootlets. TOPSOIL	1		
		0.50	PP	1.0kg/cm2						 Firm grey brown and orange sandy slightly gravelly CLAY. Sand is fine, gravel is medium and coarse subangular flint. WITTERING FORMATION
		1.00	PP	1.0kg/cm2		1.80	26.76	 Soft mottled orange and grey silty sandy slightly gravelly CLAY. Gravel is fine to medium subrounded ironstone. WITTERING FORMATION	2	
		1.50	PP	1.2kg/cm2						2.30
		2.00 - 2.20	ES			3.70	24.86	 Firm dark brown and grey CLAY with frequent fine gravel sized mudstone lithorelicts. WITTERING FORMATION	4	
		2.00	PP	0.5kg/cm2						3.80
		2.50	PP	1.8kg/cm2		4.10	24.46	 Stiff grey CLAY with rare fine brown partings. LONDON CLAY	5	
		3.00	PP	2.0kg/cm2						End of Borehole at 5.00m
		3.50	PP	1.8kg/cm2						
		4.00	PP	2.0kg/cm2						
	4.50	PP	2.8kg/cm2							
	5.00	PP	2.0kg/cm2							
Dynamic Sampling Run Details		Water Strike - Details		Remarks No groundwater encountered. Monitoring standpipe installed						
Depth Top	Depth Base	Diameter	Depth Water Value							Depth Water
										



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS205

Sheet 1 of 1

Project Name: Boorley Gardens

Project No.
GE20584

Co-ords: 450347E - 115100N

Hole Type
WLS

Location: Winchester Road, Hedge End

Level: 27.86

Scale
1:25

Client: Bellway Homes & Miller Homes

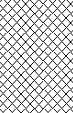
Dates: 19/05/2022

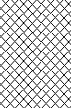
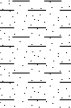
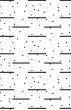
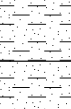
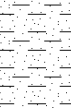
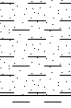
Logged By
SA

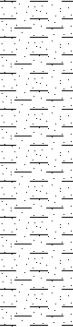
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15			0.15	27.71		Grass over brown silty slightly gravelly fine SAND with occasional rootlets. TOPSOIL	1
		0.40	ES					Soft grey brown and orange sandy CLAY. WITTERING FORMATION	
		0.50	PP	0.5kg/cm2					
		1.00	ES						
		1.00	PP	0.5kg/cm2					
		1.30			1.30	26.56			
		1.50	D					Firm mottled orange and light grey slightly sandy CLAY. WITTERING FORMATION	2
		1.50	PP	1.2kg/cm2					
		2.00	PP	1.2kg/cm2					
		2.30			2.30	25.56		Stiff mottled light grey, orange brown and brown CLAY. WITTERING FORMATION	3
		2.50	D						
		2.50	PP	2.0kg/cm2					
		3.00	PP	2.5kg/cm2	3.00	24.86		No recovery.	4
		3.60	D		3.60	24.26		Very stiff friable brown and dark brown CLAY with frequent fine gravel sized mudstone lithorelicts. WITTERING FORMATION	
		4.00	PP	4.2kg/cm2	4.00	23.86		No recovery.	5
		4.70			4.70	23.16		Firm grey CLAY. LONDON CLAY	
		5.00	PP	1.2kg/cm2	5.00	22.86		End of Borehole at 5.00m	

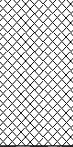
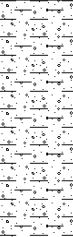
Dynamic Sampling Run Details			Water Strike - Details		Remarks	
Depth Top	Depth Base	Diameter	Depth Water Value	Depth Water		
			0.90	0.900	Groundwater at 1.15m rising to 0.90m after 20 minutes. Monitoring standpipe installed	

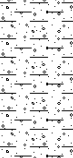
 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP101			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450355.4	Northing: 115096.9	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool cloudy		Hole Termination: Natural ground confirmed			Stability: Localised spalling			
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.05	ES1			0.10		Dark brown sandy gravelly clay with occasional gravel sized concrete and asphalt. MADE GROUND				
				(0.60)		Soft yellow brown with orange mottling sandy slightly gravelly CLAY with two decomposed 10mm roots. WITTERING FORMATION			0.5	
				0.70		Soft to firm yellow brown and greenish grey sandy CLAY. WITTERING FORMATION			1.0	
1.50	ES2			(1.60)					1.5	
						Boulder sized pocket of very soft pinkish brown slightly sandy CLAY			2.0	
				2.30		End of Trial Pit at 2.30m			2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	2.30m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
Slow inflow of groundwater at 1.50m										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
1.50	1.50		0							

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP102			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450346.1	Northing: 115088.9	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed			Stability: Localised spalling			
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.30	ES1			(0.40)		Brown and grey sandy clay with many gravel sized brick fragments. MADE GROUND				
				0.40		Firm greenish grey slightly sandy CLAY. WITTERING FORMATION			0.5	
				(0.60)						
				1.00		Firm greenish grey occasionally dark grey sandy CLAY with slight hydrocarbon odour. WITTERING FORMATION			1.0	
1.20	ES2			(0.60)						
				1.60		Firm orange brown and light grey mottled silty sandy CLAY. WITTERING FORMATION			1.5	
				(0.80)					2.0	
1.80	ES3			2.40		End of Trial Pit at 2.40m			2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	2.40m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
Moderate inflow of groundwater at 1.70m										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
1.70	1.70		0							
						PhotoofPit PhotoofSpoil				

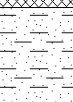
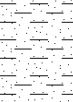
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	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450363.0	Northing: 115088.1	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool cloudy		Hole Termination: Natural ground confirmed		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			(0.40)		Brown sandy slightly gravelly clay with some gravel and cobble sized brick fragments. MADE GROUND				
				0.40		Firm yellow brown slightly sandy CLAY with rare medium angular flint gravel WITTERING FORMATION			0.5	
				(1.00)					1.0	
1.50	ES2			1.40		Soft to firm grey and yellow brown mottled sandy CLAY with slight hydrocarbon odour. WITTERING FORMATION			1.5	
				(0.90)					2.0	
2.40	ES3			2.30		Stiff pale yellow brown and light grey mottled CLAY. WITTERING FORMATION			2.5	
				2.50		End of Trial Pit at 2.50m			2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	2.50m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
Slow inflow of groundwater at 1.60m, slight sheen on water										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
1.60	1.60		0							
						Photo of Pit				
						Photo of Spoil				

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP104			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450354.8	Northing: 115082.2	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cold cloudy		Hole Termination: Natural ground confirmed			Stability: Localised spalling			
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.10	ES1			0.20		Brown sandy clay with some gravel sized concrete and brick. MADE GROUND				
				(1.10)		Soft yellow brown sandy CLAY. WITTERING FORMATION			0.5	
1.50	ES2			1.30		Soft orange brown and light grey mottled sandy CLAY. WITTERING FORMATION			1.0	
				(0.50)					1.5	
				1.80		End of Trial Pit at 1.80m			2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.80m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
Slow inflow of groundwater at 1.30m, standing at 1.35m after 15 minutes										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
1.30	1.35		15			PhotoofPitPhotoofSpoil				

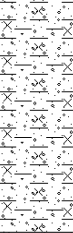
 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP105			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450300.9	Northing: 115105.6	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log				Weather: Cool sunny		Hole Termination: Natural ground confirmed		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			(0.50)		Dark grey brown sandy slightly gravelly clay. MADE GROUND				
				0.50		Firm grey with occasional orange brown pockets sandy slightly gravelly CLAY. Gravel is fmc subangular and angular flint. WITTERING FORMATION			0.5	
				(0.80)					1.0	
				1.30		Stiff pale grey CLAY. WITTERING FORMATION				
				1.50		End of Trial Pit at 1.50m			1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.50m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
No groundwater encountered										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
						PhotoofPit PhotoofSpoil				

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP106		
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1			
	Easting: 450325.4	Northing: 115109.1	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25			
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.05	ES1					Gravel over firm orange brown sandy slightly gravelly CLAY. WITTERING FORMATION			
				(1.20)				0.5	
				1.20		Stiff pale grey slightly sandy slightly gravelly CLAY. Gravel is medium subangular and angular flint. WITTERING FORMATION		1.0	
				(0.30)					
				1.50		End of Trial Pit at 1.50m		1.5	
								2.0	
								2.5	
								3.0	
								3.5	
Dimensions:						Photo:			
Final Depth:	1.50m								
Final Width:	0.45m								
Final Length:	3.00m								
Remarks									
No groundwater encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						
						PhotoofPitPhotoofSpoil			

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP107			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450369.2	Northing: 115115.0	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed			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			0.20		Light brown silty gravelly sand with many gravel sized brick fragments and some cobble sized brick fragments. One piece of wire and one gravel sized metal fragment. One cobble sized board fragment with bitumen coating with synthetic fibres [sampled ACM2]. MADE GROUND Firm light grey and yellow brown silty sandy CLAY. WITTERING FORMATION				
				(0.70)						
				0.90		Stiff pale grey CLAY. WITTERING FORMATION			0.5	
				(0.40)						
				1.30		End of Trial Pit at 1.30m			1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.30m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
No groundwater encountered										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
						PhotoofPit PhotoofSpoil				

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP108			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450321.2	Northing: 115090.4	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log										
Weather: Cool sunny			Hole Termination: Natural ground confirmed			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			(0.30)		Black and grey slightly sandy slightly gravelly clay. MADE GROUND			0.5	
				0.30		Stiff greenish grey sandy CLAY with occasional dead 5-10mm roots. WITTERING FORMATION				
				(0.80)						
				1.10		Stiff light grey occasionally orange brown silty sandy CLAY. WITTERING FORMATION				
				(0.40)						
1.50		End of Trial Pit at 1.50m			1.5					
Dimensions:						Photo:				
Final Depth:	1.50m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
No groundwater encountered										
Water Strikes (mbgl)										
Depth Strike		Rose to		Time Elapsed (mins)						
						PhotoofPit PhotoofSpoil				

 Geo-Environmental	Contract Name: Boorley Gardens		Client: Bellway Homes & Miller Homes			Trial Pit ID: TP109			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1			
	Easting: 450303.4	Northing: 115088.4	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25			
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed		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			0.20		Reddish brown silty sand and gravel of fmc angular stone. One cobble sized timber fragment. MADE GROUND	0.5		
				(0.35)		Brown clayey gravelly sand with some gravel sized brick and occasional gravel sized ceramic tile and concrete fragments. Black woven geotextile at base. MADE GROUND			
				0.55		Firm to stiff greenish grey sandy slightly gravelly CLAY. WITTERING FORMATION			
0.90	ES2			(0.55)			1.0		
				1.10		Stiff orange brown and light grey slightly sandy CLAY. WITTERING FORMATION			
				1.30	End of Trial Pit at 1.30m				1.5
						2.0			
								2.5	
									3.0
						3.5			
Dimensions:						Photo:			
Final Depth:	1.30m								
Final Width:	0.45m								
Final Length:	3.00m								
Remarks									
No groundwater encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to		Time Elapsed (mins)					
						PhotoofPit			
						PhotoofSpoil			

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP110			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450326.1	Northing: 115078.6	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed			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			0.10		Dark brown sandy SILT. MADE GROUND				
				0.25		Brown sandy slightly gravelly clay with rare gravel sized brick. MADE GROUND				
0.50	ES2					Firm greenish grey becoming orange brown and light grey sandy slightly gravelly CLAY. Gravel is medium and coarse subangular flint. WITTERING FORMATION			0.5	
				(1.55)					1.0	
				1.80		End of Trial Pit at 1.80m			1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	1.80m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
No groundwater encountered										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
						PhotoofPit PhotoofSpoil				

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP111		
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1			
	Easting: 450381.0	Northing: 115099.1	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25			
Trial Pit Log									
Weather: Cool sunny			Hole Termination: Natural ground confirmed			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			(0.30)		Brown sandy clay with some gravel sized brick and occasional gravel sized concrete fragments. MADE GROUND		0.5	
				0.30		Firm orange brown and light grey sandy slightly gravelly CLAY. WITTERING FORMATION			
				(1.00)					
				1.30		Stiff yellow brown and light grey slightly sandy CLAY. WITTERING FORMATION			
				(0.70)					
2.00		End of Trial Pit at 2.00m		2.0					
Dimensions:						Photo:			
Final Depth:	2.00m								
Final Width:	0.45m								
Final Length:	3.00m								
Remarks									
No groundwater encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to		Time Elapsed (mins)					
						PhotoofPit			
						PhotoofSpoil			



Contract Number:
GE20584

Bellway Homes & Miller Homes

TP112

Sheet 1 of 1

Trial Pit Log

Easting:	450340.0
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Northings:	115082.3
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Ground Level	
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Plant Used:	6 tonne tracked excavator
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Date Printed:
06/03/2023

Scale: 1:25

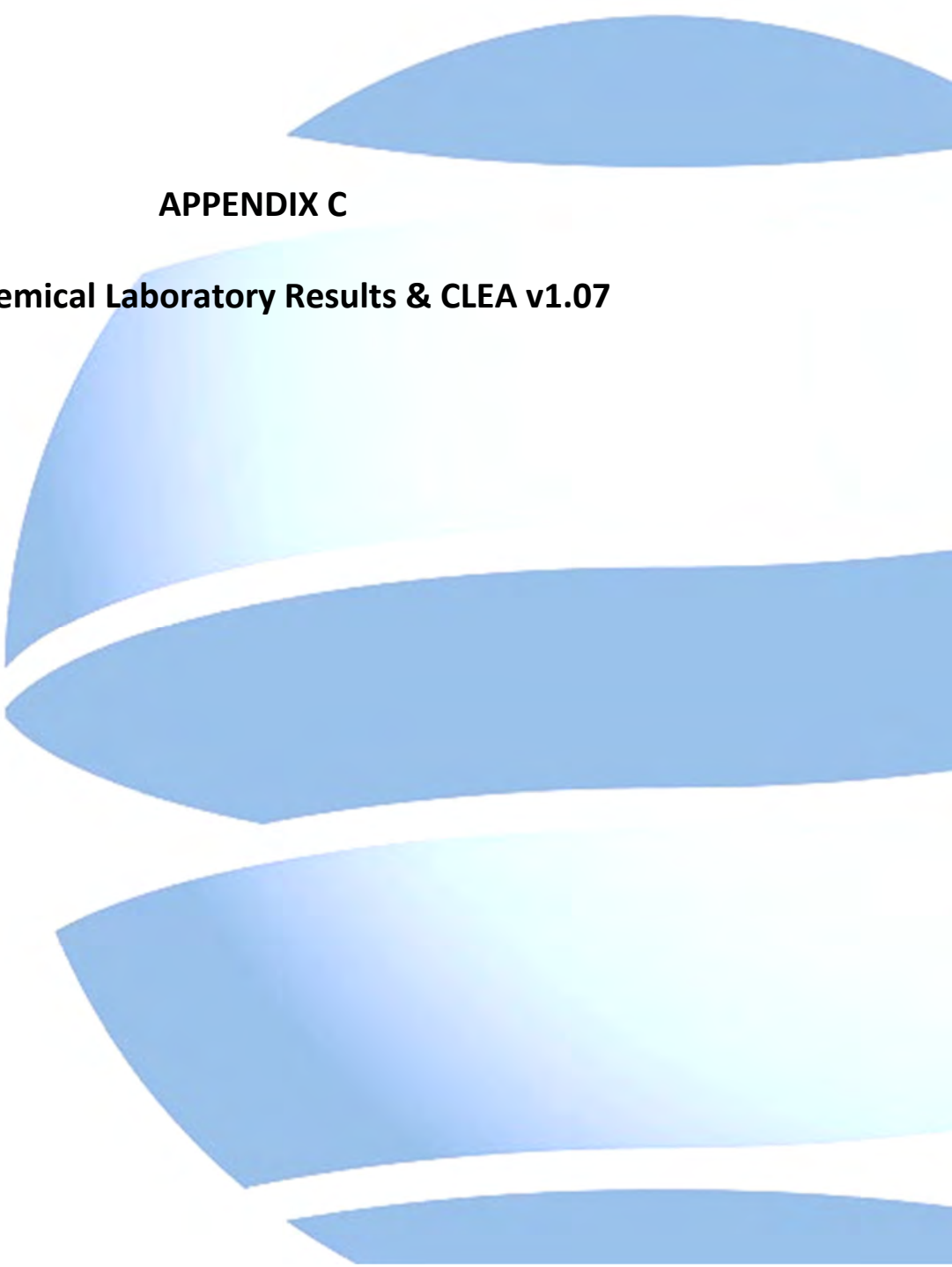
Weather: Cool sunny

Hole Termination: Natural ground confirmed
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Stability: Sides stable

Dimensions:			Photo:	
Final Depth:	2.30m			
Final Width:	0.45m			
Final Length:	3.00m			
Remarks				
Slow inflow of groundwater at 1.6m				
Water Strikes (mbgl)				
Depth Strike	Rose to	Time Elapsed (mins)		
1.60	1.60	0	PhotoofPit	PhotoofSpoil

 Geo-Environmental	Contract Name: Boorley Gardens			Client: Bellway Homes & Miller Homes			Trial Pit ID: TP113			
	Contract Number: GE20584	Date Started: 13/02/2023	Logged By: SA	Checked By: GR	Status: FINAL	Sheet 1 of 1				
	Easting: 450359.8	Northing: 115075.1	Ground Level:	Plant Used: 6 tonne tracked excavator	Date Printed: 06/03/2023	Scale: 1:25				
Trial Pit Log		Weather: Cool sunny		Hole Termination: Natural ground confirmed		Stability: Localised spalling				
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.05	ES1			0.10		Brown sandy slightly gravelly clay with occasional gravel sized brick fragments. MADE GROUND				
				(1.10)		Firm yellow to orange brown sandy slightly gravelly CLAY. Gravel is medium and coarse subangular and angular flint. WITTERING FORMATION			0.5	
				1.20		Firm orange brown and light grey mottled sandy CLAY. WITTERING FORMATION			1.0	
				(1.20)					1.5	
				2.40		End of Trial Pit at 2.40m			2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	2.40m									
Final Width:	0.45m									
Final Length:	3.00m									
Remarks										
Slow inflow of groundwater at 1.8m										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							
1.80	1.80		0			PhotoofPitPhotoofSpoil				

The background of the page features a series of stylized, overlapping wavy bands in shades of blue and light blue, creating a sense of movement and depth. These bands are positioned primarily on the right side of the page, with some extending towards the center.

APPENDIX C

Geochemical Laboratory Results & CLEA v1.07



Final Report

Report No.: 22-19200-1
Initial Date of Issue: 30-May-2022
Client Geo-Environmental Services Ltd

Client Address: Unit 7, Danworth Farm
Cuckfield Road
Hurstpierpoint
West Sussex
BN6 9GL

Contact(s): Laura Legate
Reporting
Shaun Armitage

Project GE20584 Park Farm, Boorley Gardens

Quotation No.: Q22-27574 **Date Received:** 23-May-2022

Order No.: PO-5326 **Date Instructed:** 23-May-2022

No. of Samples: 10

Turnaround (Wkdays): 5 **Results Due:** 27-May-2022

Date Approved: 30-May-2022

Approved By:

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0
	Bottom Depth (m):								3.9			2.2
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-		-			-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	18	20	19	21	10	7.8	21
Soil Colour	N	2040		N/A	Brown		Brown			Brown	Brown	Brown
Other Material	N	2040		N/A	Roots		Stones			Stones	Roots and Stones	Stones
Soil Texture	N	2040		N/A	Sand		Clay			Sand	Sand	Sand
pH	M	2010		4.0	7.8		8.0			8.1	5.9	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40		0.42			0.75	< 0.40	1.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.037		< 0.010			< 0.010	< 0.010	0.011
Sulphur (Elemental)	M	2180	mg/kg	1.0	< 1.0		4.0			1.3	< 1.0	12
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010		0.019			< 0.010	0.010	0.019
Cyanide (Total)	M	2300	mg/kg	0.50	0.80		< 0.50			< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	2.1		5.4			3.2	3.5	32
Sulphate (Total)	U	2430	mg/kg	100	380		450			620	820	570
Arsenic	M	2455	mg/kg	0.5	3.1		3.3			2.4	5.8	4.6
Beryllium	U	2455	mg/kg	0.5	< 0.5		< 0.5			< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10		0.21			< 0.10	0.13	0.12
Chromium	M	2455	mg/kg	0.5	11		8.3			6.7	19	15
Copper	M	2455	mg/kg	0.50	8.6		13			7.8	13	10
Mercury	M	2455	mg/kg	0.05	< 0.05		0.05			< 0.05	0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	3.3		3.8			2.7	8.2	6.3
Lead	M	2455	mg/kg	0.50	37		56			18	150	110
Selenium	M	2455	mg/kg	0.25	< 0.25		< 0.25			< 0.25	0.43	0.40
Vanadium	U	2455	mg/kg	0.5	13		14			10	22	18
Zinc	M	2455	mg/kg	0.50	32		130			53	70	54
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50			< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40		0.41		0.62	0.50			
Total Organic Carbon	M	2625	%	0.20	2.1		1.8			2.0	1.8	0.23
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	530	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	810	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	250	< 1.0	< 1.0	32	< 1.0

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0
	Bottom Depth (m):								3.9			2.2
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	1600	< 5.0	< 5.0	32	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	210	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	210	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	1800	< 10	< 10	32	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Chloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromomethane	M	2760	µg/kg	20		< 20		< 20	< 20			
Chloroethane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0			
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Benzene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010
Benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0			
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10			
Toluene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010
Toluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122	
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0	
	Bottom Depth (m):								3.9			2.2	
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10				
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		< 10	< 10				
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Dibromochloromethane	U	2760	µg/kg	10		< 10		< 10	< 10				
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0				
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010	
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010	
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010	
o-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Styrene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50	< 50				
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50	< 50				
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010			< 0.0010	< 0.0010	< 0.0010	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122	
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0	
	Bottom Depth (m):								3.9			2.2	
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Phenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Chlorophenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Methylphenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Hexachloroethane	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Methylphenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Nitrobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Isophorone	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Nitrophenol	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2,4-Dimethylphenol	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2,4-Dichlorophenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Naphthalene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Chloroaniline	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Hexachlorobutadiene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Methylnaphthalene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Nitrophenol	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Chloronaphthalene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Nitroaniline	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Acenaphthylene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Dimethylphthalate	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50		3.0	< 0.50				
Acenaphthene	M	2790	mg/kg	0.50		< 0.50		0.84	< 0.50				
3-Nitroaniline	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Dibenzofuran	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122	
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0	
	Bottom Depth (m):								3.9			2.2	
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Fluorene	M	2790	mg/kg	0.50		< 0.50		1.1	< 0.50				
Diethyl Phthalate	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Nitroaniline	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Azobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Hexachlorobenzene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Pentachlorophenol	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Phenanthrene	M	2790	mg/kg	0.50		< 0.50		2.5	< 0.50				
Anthracene	M	2790	mg/kg	0.50		< 0.50		0.67	< 0.50				
Carbazole	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Fluoranthene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Pyrene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Benzo[a]anthracene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Chrysene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Benzo[a]pyrene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		< 0.50		< 0.50	< 0.50				
Naphthalene	N	2800	mg/kg	0.010	< 0.010		< 0.010			< 0.010	< 0.010	< 0.010	
Acenaphthylene	N	2800	mg/kg	0.010	< 0.010		< 0.010			< 0.010	< 0.010	< 0.010	
Acenaphthene	N	2800	mg/kg	0.010	< 0.010		< 0.010			< 0.010	< 0.010	< 0.010	
Fluorene	N	2800	mg/kg	0.010	< 0.010		< 0.010			< 0.010	< 0.010	< 0.010	
Phenanthrene	N	2800	mg/kg	0.010	0.45		0.18			< 0.010	< 0.010	< 0.010	
Anthracene	N	2800	mg/kg	0.010	0.13		0.12			< 0.010	< 0.010	< 0.010	
Fluoranthene	N	2800	mg/kg	0.010	1.1		0.49			0.11	< 0.010	< 0.010	
Pyrene	N	2800	mg/kg	0.010	0.99		0.56			0.12	< 0.010	< 0.010	
Benzo[a]anthracene	N	2800	mg/kg	0.010	0.58		0.36			< 0.010	< 0.010	< 0.010	
Chrysene	N	2800	mg/kg	0.010	0.54		0.38			< 0.010	< 0.010	< 0.010	
Benzo[b]fluoranthene	N	2800	mg/kg	0.010	0.77		0.47			< 0.010	< 0.010	< 0.010	

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434111	1434112	1434114	1434115	1434117	1434118	1434121	1434122
	Client Sample ID.:				WS201	WS201	WS202	WS202	WS202	WS203	WS204	WS204
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.7	0.1	1.0	3.7	0.2	0.1	2.0
	Bottom Depth (m):								3.9			2.2
	Date Sampled:				19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM		DURHAM			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Benzo[k]fluoranthene	N	2800	mg/kg	0.010	0.26		0.13			< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	2800	mg/kg	0.010	0.69		0.54			< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.010	0.44		0.46			< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.010	0.13		0.075			< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	2800	mg/kg	0.010	0.49		0.58			< 0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	2800	mg/kg	0.20	6.6		4.4			0.23	< 0.20	< 0.20
Total Phenols	M	2920	mg/kg	0.10	< 0.10		< 0.10			< 0.10	< 0.10	< 0.10
SVOC TIC	N	2790	mg/kg	N/A		None Detected		None Detected	None Detected			
VOC TIC	N	2760	µg/kg	N/A		None Detected		None Detected	None Detected			

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	21
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	None	None
Soil Texture	N	2040		N/A	Clay	Clay
pH	M	2010		4.0	7.9	8.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010
Sulphur (Elemental)	M	2180	mg/kg	1.0	1.6	13
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	0.60	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	20	3.3
Sulphate (Total)	U	2430	mg/kg	100	170	100
Arsenic	M	2455	mg/kg	0.5	2.1	1.8
Beryllium	U	2455	mg/kg	0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	8.1	11
Copper	M	2455	mg/kg	0.50	2.8	3.5
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	2.1	1.7
Lead	M	2455	mg/kg	0.50	8.9	4.4
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	11	13
Zinc	M	2455	mg/kg	0.50	23	11
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40		
Total Organic Carbon	M	2625	%	0.20	0.55	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0		
Chloromethane	M	2760	µg/kg	1.0		
Vinyl Chloride	M	2760	µg/kg	1.0		
Bromomethane	M	2760	µg/kg	20		
Chloroethane	U	2760	µg/kg	2.0		
Trichlorofluoromethane	M	2760	µg/kg	1.0		
1,1-Dichloroethene	M	2760	µg/kg	1.0		
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0		
1,1-Dichloroethane	M	2760	µg/kg	1.0		
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		
Bromochloromethane	U	2760	µg/kg	5.0		
Trichloromethane	M	2760	µg/kg	1.0		
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		
Tetrachloromethane	M	2760	µg/kg	1.0		
1,1-Dichloropropene	U	2760	µg/kg	1.0		
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Benzene	M	2760	µg/kg	1.0		
1,2-Dichloroethane	M	2760	µg/kg	2.0		
Trichloroethene	N	2760	µg/kg	1.0		
1,2-Dichloropropane	M	2760	µg/kg	1.0		
Dibromomethane	M	2760	µg/kg	1.0		
Bromodichloromethane	M	2760	µg/kg	5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10		
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene	M	2760	µg/kg	1.0		

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		
1,1,2-Trichloroethane	M	2760	µg/kg	10		
Tetrachloroethene	M	2760	µg/kg	1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0		
Dibromochloromethane	U	2760	µg/kg	10		
1,2-Dibromoethane	M	2760	µg/kg	5.0		
Chlorobenzene	M	2760	µg/kg	1.0		
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene	M	2760	µg/kg	1.0		
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	µg/kg	1.0		
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	µg/kg	1.0		
Styrene	M	2760	µg/kg	1.0		
Tribromomethane	U	2760	µg/kg	1.0		
Isopropylbenzene	M	2760	µg/kg	1.0		
Bromobenzene	M	2760	µg/kg	1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50		
N-Propylbenzene	U	2760	µg/kg	1.0		
2-Chlorotoluene	M	2760	µg/kg	1.0		
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0		
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0		
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0		
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		
N-Butylbenzene	U	2760	µg/kg	1.0		
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		
Phenol	M	2790	mg/kg	0.50		
2-Chlorophenol	M	2790	mg/kg	0.50		
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		
2-Methylphenol	M	2790	mg/kg	0.50		
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		
Hexachloroethane	N	2790	mg/kg	0.50		
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		
4-Methylphenol	M	2790	mg/kg	0.50		
Nitrobenzene	M	2790	mg/kg	0.50		
Isophorone	M	2790	mg/kg	0.50		
2-Nitrophenol	N	2790	mg/kg	0.50		
2,4-Dimethylphenol	N	2790	mg/kg	0.50		
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		
2,4-Dichlorophenol	M	2790	mg/kg	0.50		
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		
Naphthalene	M	2790	mg/kg	0.50		
4-Chloroaniline	N	2790	mg/kg	0.50		
Hexachlorobutadiene	M	2790	mg/kg	0.50		
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		
2-Methylnaphthalene	M	2790	mg/kg	0.50		
4-Nitrophenol	N	2790	mg/kg	0.50		
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		
2-Chloronaphthalene	M	2790	mg/kg	0.50		
2-Nitroaniline	M	2790	mg/kg	0.50		
Acenaphthylene	M	2790	mg/kg	0.50		
Dimethylphthalate	M	2790	mg/kg	0.50		
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		
Acenaphthene	M	2790	mg/kg	0.50		
3-Nitroaniline	N	2790	mg/kg	0.50		
Dibenzofuran	M	2790	mg/kg	0.50		
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		
Fluorene	M	2790	mg/kg	0.50		
Diethyl Phthalate	M	2790	mg/kg	0.50		
4-Nitroaniline	M	2790	mg/kg	0.50		
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		
Azobenzene	M	2790	mg/kg	0.50		
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		
Hexachlorobenzene	M	2790	mg/kg	0.50		
Pentachlorophenol	N	2790	mg/kg	0.50		
Phenanthrene	M	2790	mg/kg	0.50		
Anthracene	M	2790	mg/kg	0.50		
Carbazole	M	2790	mg/kg	0.50		
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		
Fluoranthene	M	2790	mg/kg	0.50		
Pyrene	M	2790	mg/kg	0.50		
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		
Benzo[a]anthracene	M	2790	mg/kg	0.50		
Chrysene	M	2790	mg/kg	0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		
Benzo[a]pyrene	M	2790	mg/kg	0.50		
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		
Naphthalene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Acenaphthylene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Acenaphthene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Fluorene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Phenanthrene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Anthracene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Fluoranthene	N	2800	mg/kg	0.010	0.087	< 0.010
Pyrene	N	2800	mg/kg	0.010	0.12	< 0.010
Benzo[a]anthracene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Chrysene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	2800	mg/kg	0.010	< 0.010	< 0.010

Results - Soil

Project: GE20584 Park Farm, Boorley Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-19200	22-19200
Quotation No.: Q22-27574	Chemtest Sample ID.:				1434123	1434124
	Client Sample ID.:				WS205	WS205
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.4	1.0
	Bottom Depth (m):					
	Date Sampled:				19-May-2022	19-May-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Benzo[k]fluoranthene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	2800	mg/kg	0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	2800	mg/kg	0.20	0.21	< 0.20
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10
SVOC TIC	N	2790	mg/kg	N/A		
VOC TIC	N	2760	µg/kg	N/A		

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5-C6, >C6-C8,>C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

CLEA Software Version 1.071

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Report generated 22-Jun-22

Report title Park Farm Area, Boorley Gardens

Created by SA at GESL



RESULTS

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	Average Daily Exposure ($\text{mg kg}^{-1} \text{ bw day}^{-1}$)	Distribution by Pathway (%)
	Direct soil ingestion Consumption of homegrown produce and attached soil Dermal contact with soil and dust Inhalation of dust Inhalation of vapour Background (oral) Background (inhalation)	Direct soil ingestion Consumption of homegrown produce and attached soil Dermal contact with soil and dust Inhalation of dust Inhalation of vapour (indoor) Inhalation of vapour (outdoor) Background (oral) Background (inhalation)
1 >Aromatic EC12-16	1.99E-02 1.25E-04 8.86E-04 4.43E-05 2.47E-02 5.62E+95 6.06E+95	49.69 0.31 0.00 0.00 0.00 0.00 50.00
2 2,6-Dinitrotoluene	8.27E-04 5.22E-06 3.65E-05 1.84E-06 1.30E-04 0.00E+00 0.00E+00	82.67 0.52 3.65 0.18 12.88 0.10 0.00
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Report generated	22/06/2022	
Report title	Park Farm Area, Boorley Gardens	
Created by	SA at GESL	
BASIC SETTINGS		



Land Use	Residential with produce (C4SL)				
Building	Semi-detached house				
Receptor	Female (res C4SL)	Start age class	1	End age class	6
Soil	Sandy clay loam			Exposure Duration	6 years

Exposure Pathways	Direct soil and dust ingestion	☒	Dermal contact with indoor dust	☒	Inhalation of indoor dust	☒
	Consumption of homegrown produce	☒	Dermal contact with soil	☒	Inhalation of soil dust	☒
	Soil attached to homegrown produce	☒			Inhalation of indoor vapour	☒
					Inhalation of outdoor vapour	☒



Land Use Residential with produce (C4SL)

Receptor Female (res C4SL)

Age Class	Exposure Frequencies (days yr ⁻¹)						Occupation Periods (hr day ⁻¹)		Soil to skin adherence factors (mg cm ²)		Direct soil ingestion rate (g day ⁻¹)	Body weight (kg)	Body height (m)	Inhalation rate (m ³ day ⁻¹)	Max exposed skin factor		Total skin area (m ²)
	Direct soil ingestion	Consumption of homegrown produce	Dermal contact with indoor dust	Dermal contact with soil	Inhalation of dust and vapour, indoor	Inhalation of dust and vapour, outdoor	Indoors	Outdoors									
									Indoor	Outdoor							
1	180	180	180	170	365	365	23.0	1.0	0.06	0.10	0.10	5.60	0.7	5.4	0.32	0.26	3.43E-01
2	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	9.80	0.8	8.0	0.33	0.26	4.84E-01
3	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	12.70	0.9	8.9	0.32	0.25	5.82E-01
4	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	15.10	0.9	10.1	0.35	0.28	6.36E-01
5	365	365	365	170	365	365	19.0	1.0	0.06	0.10	0.10	16.90	1.0	10.1	0.35	0.28	7.04E-01
6	365	365	365	170	365	365	19.0	1.0	0.06	0.10	0.10	19.70	1.1	10.1	0.33	0.26	7.94E-01
7	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	22.10	1.2	12.0	0.22	0.15	8.73E-01
8	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	25.30	1.2	12.0	0.22	0.15	9.36E-01
9	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	27.50	1.3	12.0	0.22	0.15	1.01E+00
10	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	31.40	1.3	12.0	0.22	0.15	1.08E+00
11	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	35.70	1.4	12.0	0.22	0.14	1.19E+00
12	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	41.30	1.4	15.2	0.22	0.14	1.29E+00
13	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	47.20	1.5	15.2	0.22	0.14	1.42E+00
14	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	51.20	1.6	15.2	0.22	0.14	1.52E+00
15	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	56.70	1.6	15.2	0.21	0.14	1.60E+00
16	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	59.00	1.6	15.2	0.21	0.14	1.63E+00
17	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	70.00	1.6	15.7	0.33	0.27	1.78E+00
18	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	70.90	1.6	13.6	0.33	0.27	1.80E+00

Consumption Rates



Age Class	Consumption rates (α FW kg^{-1} bodyweight day^{-1}) by Produce Group											
	MEAN RATES						90TH PERCENTILE RATES					
	Green veg	Root veg	Tuber veg	Herb. Fruit	Shrub fruit	Tree fruit	Green veg	Root veg	Tuber veg	Herb. Fruit	Shrub fruit	Tree fruit
1	3.47E+00	5.22E+00	9.22E+00	8.90E-01	1.07E+00	1.87E+00	7.12E+00	1.07E+01	1.60E+01	1.83E+00	2.23E+00	3.82E+00
2	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
3	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
4	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
5	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
6	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
7	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
8	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
9	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
10	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
11	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
12	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
13	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
14	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
15	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
16	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
17	1.26E+00	6.00E-01	1.18E+00	6.90E-01	9.00E-02	1.27E+00	2.36E+00	1.12E+00	2.35E+00	1.29E+00	1.80E-01	2.38E+00
18	1.35E+00	6.40E-01	1.25E+00	7.40E-01	1.00E-01	1.36E+00	2.34E+00	1.12E+00	2.36E+00	1.28E+00	1.80E-01	2.37E+00

Top 2 applied? Yes

Where top 2 method is applied, two produce categories use 90th percentile rates, while the remainder use the mean. Produce categories vary on a chemical-by-chemical basis. Where top 2 method is not used, all produce categories for all chemicals assume 90th percentile rates.

Building Semi-detached house**Soil** Sandy clay loam

Building footprint (m ²)	4.30E+01
Living space air exchange rate (hr ⁻¹)	5.00E-01
Living space height (above ground, m)	4.80E+00
Living space height (below ground, m)	0.00E+00
Pressure difference (soil to enclosed space, Pa)	3.10E+00
Foundation thickness (m)	1.50E-01
Floor crack area (cm ²)	5.25E+02
Dust loading factor (µg m ⁻³)	5.00E+01

Porosity, Total (cm ³ cm ⁻³)	5.30E-01
Porosity, Air-Filled (cm ³ cm ⁻³)	1.60E-01
Porosity, Water-Filled (cm ³ cm ⁻³)	3.70E-01
Residual soil water content (cm ³ cm ⁻³)	1.50E-01
Saturated hydraulic conductivity (cm s ⁻¹)	2.37E-03
van Genuchten shape parameter <i>m</i> (dimensionless)	3.10E-01
Bulk density (g cm ⁻³)	1.20E+00
Threshold value of wind speed at 10m (m s ⁻¹)	7.20E+00
Empirical function (<i>F_w</i>) for dust model (dimensionless)	1.22E+00
Ambient soil temperature (K)	2.83E+02
Soil pH	8.30E+00
Soil Organic Matter content (%)	6.20E-01
Fraction of organic carbon (g g ⁻¹)	3.60E-03
Effective total fluid saturation (unitless)	5.79E-01
Intrinsic soil permeability (cm ²)	3.16E-08
Relative soil air permeability (unitless)	5.78E-01
Effective air permeability (cm ²)	1.83E-08

Soil - Vapour Model

Depth to top of source (no building) (cm)	0
Depth to top of source (beneath building) (cm)	65
Default soil gas ingress rate?	Yes
Soil gas ingress rate ($\text{cm}^3 \text{s}^{-1}$)	2.50E+01
Building ventilation rate ($\text{cm}^3 \text{s}^{-1}$)	2.87E+04
Averaging time surface emissions (yr)	6
Finite vapour source model?	No
Thickness of contaminated layer (cm)	200

Air Dispersion Model

Mean annual windspeed at 10m (m s^{-1})	5.00
Air dispersion factor at height of 0.8m *	2400.00
Air dispersion factor at height of 1.6m *	0.00
Fraction of site cover ($\text{m}^2 \text{m}^{-2}$)	0.75

* Air dispersion factor in $\text{g m}^{-2} \text{s}^{-1}$ per kg m^{-3} **Soil - Plant Model**

	Dry weight conversion factor	Homegrown fraction		Soil loading factor	Preparation correction factor
	g DW g^{-1} FW	Average	High		
		dimensionless		g g^{-1} DW	dimensionless
Green vegetables	0.096	0.05	0.33	1.00E-03	2.00E-01
Root vegetables	0.103	0.06	0.40	1.00E-03	1.00E+00
Tuber vegetables	0.210	0.02	0.13	1.00E-03	1.00E+00
Herbaceous fruit	0.058	0.06	0.40	1.00E-03	6.00E-01
Shrub fruit	0.166	0.09	0.60	1.00E-03	6.00E-01
Tree fruit	0.157	0.04	0.27	1.00E-03	6.00E-01

Gardener type Average



2183

Final Report

Report No.:	22-21689-1		
Initial Date of Issue:	16-Jun-2022		
Client	Geo-Environmental Services Ltd		
Client Address:	Unit 7, Danworth Farm Cuckfield Road Hurstpierpoint West Sussex BN6 9GL		
Contact(s):	Shaun Armitage Travis Underdown Reporting		
Project	GE20584 Borely Gardens		
Quotation No.:	Q22-27853	Date Received:	10-Jun-2022
Order No.:	PO-9351	Date Instructed:	10-Jun-2022
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	16-Jun-2022
Date Approved:	16-Jun-2022		
Approved By:			

Results - Water

Project: GE20584 Borely Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:			22-21689	
Quotation No.: Q22-27853	Chemtest Sample ID.:			1445949	
	Client Sample ID.:			WS02	
	Sample Type:			WATER	
	Top Depth (m):			2.5	
	Date Sampled:			08-Jun-2022	
Determinand	Accred.	SOP	Units	LOD	
pH	U	1010		N/A	7.0
Chloride	U	1220	mg/l	1.0	30
Sulphate	U	1220	mg/l	1.0	120
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	0.32
Arsenic (Dissolved)	U	1455	µg/l	0.20	93
Boron (Dissolved)	U	1455	µg/l	10.0	1300
Beryllium (Dissolved)	U	1455	µg/l	1.00	24
Cadmium (Dissolved)	U	1455	µg/l	0.11	14
Chromium (Dissolved)	U	1455	µg/l	0.50	250
Copper (Dissolved)	U	1455	µg/l	0.50	1200
Mercury (Dissolved)	U	1455	µg/l	0.05	0.70
Nickel (Dissolved)	U	1455	µg/l	0.50	360
Lead (Dissolved)	U	1455	µg/l	0.50	1000
Selenium (Dissolved)	U	1455	µg/l	0.50	84
Vanadium (Dissolved)	U	1455	µg/l	0.50	350
Zinc (Dissolved)	U	1455	µg/l	2.5	2400
Low-Level Chromium (Hexavalent)	U	1495	µg/l	0.10	< 0.10
Total Organic Carbon	U	1610	mg/l	2.0	720
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0

Results - Water

Project: GE20584 Borely Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-21689
Quotation No.: Q22-27853	Chemtest Sample ID.:				1445949
	Client Sample ID.:				WS02
	Sample Type:				WATER
	Top Depth (m):				2.5
	Date Sampled:				08-Jun-2022
Determinand	Accred.	SOP	Units	LOD	
Chloromethane	U	1760	µg/l	1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5
Chloroethane	U	1760	µg/l	2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5
Trichloromethane	U	1760	µg/l	1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0
Benzene	U	1760	µg/l	1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10
Toluene	U	1760	µg/l	1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5
Chlorobenzene	N	1760	µg/l	1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0
Styrene	U	1760	µg/l	1.0	< 1.0
Tribromomethane	U	1760	µg/l	1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1.0	100
Bromobenzene	U	1760	µg/l	1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50
N-Propylbenzene	U	1760	µg/l	1.0	61

Results - Water

Project: GE20584 Borely Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-21689
Quotation No.: Q22-27853	Chemtest Sample ID.:				1445949
	Client Sample ID.:				WS02
	Sample Type:				WATER
	Top Depth (m):				2.5
	Date Sampled:				08-Jun-2022
Determinand	Accred.	SOP	Units	LOD	
2-Chlorotoluene	U	1760	µg/l	1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0	50
Sec-Butylbenzene	U	1760	µg/l	1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1.0	< 1.0
4-Isopropyltoluene	U	1760	µg/l	1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.50	< 0.50
Phenol	N	1790	µg/l	0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50	< 0.50
4-Methylphenol	N	1790	µg/l	0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.50	< 0.50
Isophorone	N	1790	µg/l	0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50	< 0.50
2,4-Dichlorophenol	N	1790	µg/l	0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50	< 0.50
Naphthalene	N	1790	µg/l	0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50	< 0.50

Results - Water

Project: GE20584 Borely Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:				22-21689
Quotation No.: Q22-27853	Chemtest Sample ID.:				1445949
	Client Sample ID.:				WS02
	Sample Type:				WATER
	Top Depth (m):				2.5
	Date Sampled:				08-Jun-2022
Determinand	Accred.	SOP	Units	LOD	
2-Methylnaphthalene	N	1790	µg/l	0.50	< 0.50
Hexachlorocyclopentadiene	N	1790	µg/l	0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50
Fluorene	N	1790	µg/l	0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50	< 0.50
Azobenzene	N	1790	µg/l	0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.50	< 0.50
Anthracene	N	1790	µg/l	0.50	< 0.50
Carbazole	N	1790	µg/l	0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.50	< 0.50
Pyrene	N	1790	µg/l	0.50	< 0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.50	< 0.50
Benzo[a]anthracene	N	1790	µg/l	0.50	< 0.50
Chrysene	N	1790	µg/l	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.50	< 0.50
Benzo[k]fluoranthene	N	1790	µg/l	0.50	< 0.50
Benzo[a]pyrene	N	1790	µg/l	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50	< 0.50

Results - Water

Project: GE20584 Borely Gardens

Client: Geo-Environmental Services Ltd	Chemtest Job No.:		22-21689		
Quotation No.: Q22-27853	Chemtest Sample ID.:		1445949		
	Client Sample ID.:		WS02		
	Sample Type:		WATER		
	Top Depth (m):		2.5		
	Date Sampled:		08-Jun-2022		
Determinand	Accred.	SOP	Units	LOD	
4-Nitrophenol	N	1790	µg/l	0.50	< 0.50
Naphthalene	N	1800	µg/l	0.010	< 0.010
Acenaphthylene	N	1800	µg/l	0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010
Total Of 16 PAH's	N	1800	µg/l	0.20	< 0.20
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



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East Sussex
TN38 9BY
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info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-46745

Issue: 1

Date of Issue: 06/03/2023

Contact: Shaun Armitage

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

Quotation No: Q22-03510

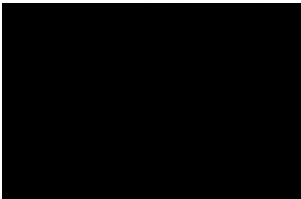
Order No: PO-6133

Customer Reference: GE20584

Date Received: 15/02/2023

Date Approved: 06/03/2023

Details: Boorley Gardens

Approved by: 



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.: 23-46745, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
312239	TP101 0.05	13/02/2023	15/02/2023		
312240	TP101 1.50	13/02/2023	15/02/2023	Silty clayey loam	
312241	TP102 0.30	13/02/2023	15/02/2023	Sandy silty loam	
312242	TP102 1.20	13/02/2023	15/02/2023	Sandy loam	
312243	TP102 1.80	13/02/2023	15/02/2023	Sandy clayey loam	
312244	TP103 0.20	13/02/2023	15/02/2023		
312245	TP103 1.50	13/02/2023	15/02/2023	Sandy loam	
312246	TP103 2.40	13/02/2023	15/02/2023	Silty clayey loam	
312247	TP104 0.10	13/02/2023	15/02/2023		
312248	TP104 1.50	13/02/2023	15/02/2023	Sandy clayey loam	
312249	TP105 0.10	13/02/2023	15/02/2023	Sandy silty loam	
312250	TP106 0.05	13/02/2023	15/02/2023		
312251	TP107 0.10	13/02/2023	15/02/2023	Loamy sand	
312252	TP108 0.10	13/02/2023	15/02/2023		
312253	TP109 0.40	13/02/2023	15/02/2023	Sandy loam	
312254	TP109 0.90	13/02/2023	15/02/2023		
312255	TP110 0.20	13/02/2023	15/02/2023		
312256	TP110 0.50	13/02/2023	15/02/2023	Silty loam	
312257	TP111 0.20	13/02/2023	15/02/2023	Sandy silty loam	
312258	TP112 0.10	13/02/2023	15/02/2023	Sandy silty loam	
312259	TP113 0.05	13/02/2023	15/02/2023		
312260	ACM1 0.05	13/02/2023	15/02/2023		
312261	ACM2 0.05	13/02/2023	15/02/2023		
312262	ACM3 0.05	13/02/2023	15/02/2023		



Results Summary

Report No.: 23-46745, issue number 1

				ELAB Reference	312240	312241	312242	312243	312245	312246	312248	312249	312251	312253	312256	312257	312258
				Customer Reference													
				Sample ID													
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP101	TP102	TP102	TP102	TP103	TP103	TP104	TP105	TP107	TP109	TP110	TP111	TP112
				Sample Depth (m)	1.50	0.30	1.20	1.80	1.50	2.40	1.50	0.10	0.10	0.40	0.50	0.20	0.10
				Sampling Date	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023
Determinand		Codes	Units	LOD													
Soil sample preparation parameters																	
Moisture Content		N	%	0.1	24.5	21.2	18.5	19.7	21.0	23.7	23.2	12.7	13.9	10.9	17.6	15.0	29.9
Material removed		N	%	0.1	n/t	8.8	n/t	n/t	n/t	n/t	n/t	6.7	12.9	10.9	9.2	7.1	10.1
Description of Inert material removed		N		0	n/t	Stones/Brick	n/t	n/t	n/t	n/t	n/t	Stones/Brick	Stones/Brick/Clinker	Stones/Clinker	Stones	Stones/Clinker	Stones/Brick/Clinker
Metals																	
Arsenic		M	mg/kg	1	n/t	9.1	n/t	n/t	n/t	n/t	n/t	7.1	7.6	11.7	10.0	5.2	10.6
Beryllium		U	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium		M	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t	n/t	n/t	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium		M	mg/kg	5	n/t	29.4	n/t	n/t	n/t	n/t	n/t	22.4	18.4	29.6	35.0	19.5	32.8
Copper		M	mg/kg	5	n/t	28.9	n/t	n/t	n/t	n/t	n/t	11.2	20.7	36.8	9.7	11.8	25.9
Lead		M	mg/kg	5	n/t	106	n/t	n/t	n/t	n/t	n/t	33.4	432	117	19.3	82.4	46.7
Mercury		M	mg/kg	0.5	n/t	0.5	n/t	n/t	n/t	n/t	n/t	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel		M	mg/kg	5	n/t	10.4	n/t	n/t	n/t	n/t	n/t	7.5	9.5	17.0	8.8	5.3	11.2
Selenium		M	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium		M	mg/kg	5	n/t	47.3	n/t	n/t	n/t	n/t	n/t	33.3	21.7	34.2	46.7	27.4	55.8
Zinc		M	mg/kg	5	n/t	341	n/t	n/t	n/t	n/t	n/t	56.1	153	178	56.9	39.5	223
Anions																	
Water Soluble Chloride		M	mg/kg	40	n/t	< 40	n/t	n/t	n/t	n/t	n/t	353	< 40	118	< 40	< 40	86
Water Soluble Sulphate		M	g/l	0.02	n/t	0.06	n/t	n/t	n/t	n/t	n/t	0.03	0.22	0.77	0.06	0.05	0.12
Inorganics																	
Elemental Sulphur		M	mg/kg	20	n/t	< 20	n/t	n/t	n/t	n/t	n/t	57	122	< 20	< 20	< 20	88
Hexavalent Chromium		N	mg/kg	0.8	n/t	< 0.8	n/t	n/t	n/t	n/t	n/t	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide		N	mg/kg	2	n/t	< 2	n/t	n/t	n/t	n/t	n/t	< 2	< 2	< 2	< 2	< 2	< 2
Total Cyanide		M	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate (SO4)		U	%	0.02	n/t	0.07	n/t	n/t	n/t	n/t	n/t	0.02	0.12	0.49	0.05	0.03	0.07
Water Soluble Boron		N	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t	n/t	n/t	0.9	0.7	1.1	0.5	0.8	1.0
Miscellaneous																	
pH		M	pH units	0.1	n/t	8.7	n/t	n/t	n/t	n/t	n/t	8.5	8.5	10.9	8.3	8.2	8.3
Total Organic Carbon		N	%	0.01	n/t	1.1	n/t	n/t	n/t	n/t	n/t	0.63	1.6	1.7	0.37	1.5	2.2
Phenols																	
Total Phenols		N	mg/kg	6	n/t	< 6	n/t	n/t	n/t	n/t	n/t	< 6	< 6	< 6	< 6	< 6	< 6



Results Summary

Report No.: 23-46745, issue number 1

				ELAB Reference	312240	312241	312242	312243	312245	312246	312248	312249	312251	312253	312256	312257	312258
				Customer Reference													
				Sample ID													
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP101	TP102	TP102	TP102	TP103	TP103	TP104	TP105	TP107	TP109	TP110	TP111	TP112
				Sample Depth (m)	1.50	0.30	1.20	1.80	1.50	2.40	1.50	0.10	0.10	0.40	0.50	0.20	0.10
				Sampling Date	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023	13/02/2023
Determinand					Codes	Units	LOD										
Polyaromatic hydrocarbons																	
Naphthalene	MS	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	1.81	0.18	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	MS	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	< 0.02	0.08	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	MS	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	2.66	0.13	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	US	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	1.95	0.12	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	MS	mg/kg	0.02	n/t	0.04	n/t	n/t	n/t	n/t	n/t	0.08	21.5	0.84	< 0.02	0.03	0.30	0.30
Anthracene	US	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	4.32	0.20	< 0.02	0.02	0.10	0.10
Fluoranthene	MS	mg/kg	0.02	n/t	0.10	n/t	n/t	n/t	n/t	n/t	0.05	24.4	1.16	< 0.02	0.38	1.09	1.09
Pyrene	MS	mg/kg	0.02	n/t	0.10	n/t	n/t	n/t	n/t	n/t	0.06	20.4	1.04	< 0.02	0.40	0.88	0.88
Benzo(a)anthracene	US	mg/kg	0.02	n/t	0.07	n/t	n/t	n/t	n/t	n/t	0.03	9.66	0.54	< 0.02	0.39	0.74	0.74
Chrysene	MS	mg/kg	0.02	n/t	0.06	n/t	n/t	n/t	n/t	n/t	0.04	10.2	0.55	< 0.03	0.35	0.67	0.67
Benzo(b)fluoranthene	MS	mg/kg	0.02	n/t	0.08	n/t	n/t	n/t	n/t	n/t	0.04	12.4	0.67	< 0.02	0.84	0.86	0.86
Benzo(k)fluoranthene	MS	mg/kg	0.03	n/t	0.03	n/t	n/t	n/t	n/t	n/t	< 0.03	4.29	0.27	< 0.03	0.26	0.25	0.25
Benzo(a)pyrene	US	mg/kg	0.02	n/t	0.06	n/t	n/t	n/t	n/t	n/t	0.03	10.3	0.53	< 0.02	0.64	0.68	0.68
Indeno(1,2,3-cd)pyrene	MS	mg/kg	0.02	n/t	0.05	n/t	n/t	n/t	n/t	n/t	0.03	7.91	0.43	< 0.02	0.52	0.58	0.58
Dibenzo(a,h)anthracene	MS	mg/kg	0.02	n/t	< 0.02	n/t	n/t	n/t	n/t	n/t	< 0.02	1.25	0.09	< 0.02	0.08	0.12	0.12
Benzo(g,h,i)perylene	MS	mg/kg	0.02	n/t	0.04	n/t	n/t	n/t	n/t	n/t	0.03	6.51	0.37	< 0.02	0.44	0.48	0.48
Total PAH(16)	NS	mg/kg	0.34	n/t	0.64	n/t	n/t	n/t	n/t	n/t	0.39	140	7.18	< 0.34	4.35	6.76	6.76
BTEX																	
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 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	< 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	< 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	< 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	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0



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Results Summary

Report No.: 23-46745, issue number 1

ELAB Reference				312242	312245
Customer Reference					
Sample ID					
Sample Type				SOIL	SOIL
Sample Location				TP102	TP103
Sample Depth (m)				1.20	1.50
Sampling Date				13/02/2023	13/02/2023
Determinand	Codes	Units	LOD		
VOC					
Heptane	N	ug/kg	10	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0
cis-1,2-dichloroethene	N	ug/kg	10	< 10.0	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0
1,1,2,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0
1,2-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0	< 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0
p-cymene	N	ug/kg	10	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0
VOC TIC					
Various	N	ug/kg	10	None Detected	None Detected



Results Summary

2683

Report No.: 23-46745, issue number 1

ELAB Reference	312242	312245
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP102	TP103
Sample Depth (m)	1.20	1.50
Sampling Date	13/02/2023	13/02/2023

Determinand	Codes	Units	LOD		
SVOC					
Phenol	N	mg/kg	0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	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.: 23-46745, issue number 1

ELAB Reference	312242	312245
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP102	TP103
Sample Depth (m)	1.20	1.50
Sampling Date	13/02/2023	13/02/2023

Determinand	Codes	Units	LOD		
SVOC					
Phenanthrene	N	mg/kg	0.01	< 0.01	< 0.01
Anthracene	N	mg/kg	0.01	< 0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	< 0.01	< 0.01
Pyrene	N	mg/kg	0.01	< 0.01	< 0.01
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	< 0.01	< 0.01
Chrysene	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)pyrene	N	mg/kg	0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	N	mg/kg	0.01	< 0.01	< 0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	< 0.01	< 0.01
SVOCTIC					
Various	N	mg/kg	0.01	Y	Y
Pentane, 2-bromo-	N	mg/kg	0.01	0.16	-
Diisoamyl ether	N	mg/kg	0.01	-	0.28
Octane, 3,6-dimethyl-	N	mg/kg	0.01	-	0.09
Octane, 3,3-dimethyl-	N	mg/kg	0.01	-	0.23
Heptadecane	N	mg/kg	0.01	-	0.94
2-Methylhept-6-en-3-one	N	mg/kg	0.01	-	2.27



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Results Summary

Report No.: 23-46745, 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 (%)
312241	0.30	TP102	Brown Soil,Stones,Brick,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
312249	0.10	TP105	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
312251	0.10	TP107	Brown Sandy Soil,Stones,Brick,Slate	No asbestos detected	n/t	n/t	n/t	n/t
312252	0.10	TP108	Brown Soil,Stones,Tar,Brick	No asbestos detected	n/t	n/t	n/t	n/t
312253	0.40	TP109	Brown sandy Soil,Stones,Organic,Brick,Tar	No asbestos detected	n/t	n/t	n/t	n/t
312256	0.50	TP110	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
312257	0.20	TP111	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
312258	0.10	TP112	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
312260	0.10	ACM1	Cement Fragments	Chrysotile	n/t	n/t	n/t	n/t
312261	0.10	ACM2	Board With Bitumen Coating With Synthetic Fibres	No asbestos detected	n/t	n/t	n/t	n/t
312262	0.10	ACM3	Cement Fragment	Chrysotile	n/t	n/t	n/t	n/t

Method Summary

Report No.: 23-46745, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
VOC in solids	M	As submitted sample	20/02/2023		GC-MS
Sulphide	N	As submitted sample	22/02/2023	109	Colorimetry
Hexavalent chromium	N	As submitted sample	17/02/2023	110	Colorimetry
pH	M	Air dried sample	21/02/2023	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	21/02/2023	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	17/02/2023	300	ICPMS
Phenols in solids	N	As submitted sample	17/02/2023	121	HPLC
Elemental Sulphur	M	Air dried sample	17/02/2023	122	HPLC
SVOC in solids	N	As submitted sample	17/02/2023	167	GC-MS
Water soluble anions	M	Air dried sample	17/02/2023	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	20/02/2023	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	20/02/2023	181	GC-MS
VOC in solids	M	As submitted sample	20/02/2023	181	GC-MS
BTEX in solids	M	As submitted sample	20/02/2023	181A	GC-MS
Water soluble boron	N	Air dried sample	17/02/2023	202	Colorimetry
Total cyanide	M	As submitted sample	17/02/2023	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	20/02/2023	210	IR
Asbestos identification	U	Air dried sample	21/02/2023	281	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-46745, 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

Certificate of Analysis

Client: The Environmental Laboratory Ltd

Project: 23021919

Quote: BEC230228851 V1.2

Project Ref: Elab

Site: 23-46745

Contact: Brian Perry

Address: Unit A2, Windmill Road
Ponswood Ind. Est
St Leonards on Sea
East Sussex
TN38 9BY

E-Mail: bperry@elab-uk.co.uk

Phone: 01424 718618

No. Samples Received: 13

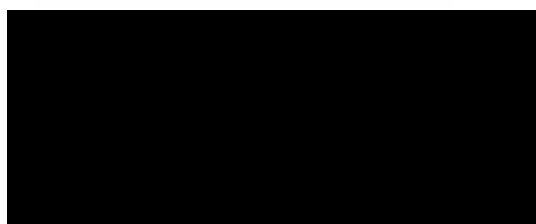
Date Received: 18/02/2023

Analysis Date: 01/03/2023

Date Issued: 01/03/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory





Client: The Environmental Laboratory Ltd
Project Name: Elab-23-46745
Project No: 23021919
Date Issued: 01/03/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23021919-001	312240	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-002	312241	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-003	312242	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-004	312243	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-005	312245	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-006	312246	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-007	312248	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-008	312249	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-009	312251	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-010	312253	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-011	312256	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-012	312257	10/02/2023 00:00:00	SOLID	Soil Sample
23021919-013	312258	10/02/2023 00:00:00	SOLID	Soil Sample

Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004	005	006	007
					Customer ID	312240	312241	312242	312243	312245	312246	312248
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023
>C6-C8 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.262	<0.245	<0.242	<0.244	<0.251	<0.262	<0.258
>C7-C8 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.01	mg/kg [^]	UM		<0.013	<0.012	<0.012	<0.012	<0.013	<0.013	<0.013
>C8-C10 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.262	<0.245	<0.242	<0.244	<0.251	<0.262	<0.258
>C8-C10 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.04	mg/kg [^]	UM		<0.053	<0.049	<0.048	<0.049	<0.051	<0.053	<0.052
C5-C6 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.262* _B	<0.245* _B	<0.242* _B	<0.244* _B	<0.251* _B	<0.262* _B	<0.258* _B
C5-C7 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.01	mg/kg [^]	UM		<0.013	<0.012	<0.012	<0.012	<0.013	<0.013	<0.013
Total GRO C5-C10 HS_1D_Total	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.262	<0.245	<0.242	<0.244	<0.251	0.282	<0.258
Benzene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<13	<12	<12	<12	<13	<13	<13
Ethylbenzene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<13	<12	<12	<12	<13	<13	<13
m/p-Xylene HS_1D_AR	BTEXHSA	20	µg/kg [^]	UM		<26	<25	<24	<24	<25	<26	<26
o-Xylene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<13	<12	<12	<12	<13	<13	<13
Toluene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<13	<12	<12	<12	<13	<13	<13
>C10-C12 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<5.25	<4.91	<4.84	<4.88	12.8	<5.25	<5.17
>C12-C16 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<5.25	<4.91	<4.84	<4.88	128	<5.25	<5.17
>C16-C21 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<5.25	<4.91	<4.84	<4.88	201	<5.25	<5.17
>C21-C35 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	10	mg/kg [^]	U		<13.1	<12.3	<12.1	<12.2	95.8	<13.1	<12.9
>C35-C44 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	6	mg/kg [^]	N		<7.87	<7.36	<7.26	<7.32	<7.54	<7.87	<7.75
Total TPH >C8-C40 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	20	mg/kg [^]	U		<26.2	<24.5	<24.2	<24.4	441	<26.2	<25.8
>C10-C12 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg [^]	U		9.66	9.97	<4.84	9.21	<5.03	<5.25	<5.17

Client: The Environmental Laboratory Ltd
Project Name:
Project No: 23021919
Date Issued: 01/03/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	008	009	010	011	012	013
					Customer ID	312249	312251	312253	312256	312257	312258
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023
>C6-C8 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.225	<0.283	<0.224	<0.245	<0.234	<0.306
>C7-C8 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.01	mg/kg [^]	UM		<0.011	<0.014	<0.011	<0.012	<0.012	<0.015
>C8-C10 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.225	<0.283	<0.224	<0.245	<0.234	<0.306
>C8-C10 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.04	mg/kg [^]	UM		<0.045	<0.057	<0.045	<0.049	<0.047	<0.061
C5-C6 Aliphatic HS_1D_AL	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.225* _B	<0.283* _B	<0.224* _B	<0.245* _B	<0.234* _B	<0.306* _B
C5-C7 Aromatic HS_1D_AR	GROHSA/BTEXHSA	0.01	mg/kg [^]	UM		<0.011	<0.014	<0.011	<0.012	<0.012	<0.015
Total GRO C5-C10 HS_1D_Total	GROHSA/BTEXHSA	0.2	mg/kg [^]	UM		<0.225	<0.283	<0.224	<0.245	<0.234	<0.306
Benzene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<11	<14	<11	<12	<12	<15
Ethylbenzene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<11	<14	<11	<12	<12	<15
m/p-Xylene HS_1D_AR	BTEXHSA	20	µg/kg [^]	UM		<23	<28	<22	<25	<23	<31
o-Xylene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<11	<14	<11	<12	<12	<15
Toluene HS_1D_AR	BTEXHSA	10	µg/kg [^]	UM		<11	<14	<11	<12	<12	<15
>C10-C12 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<4.49	<5.67	<4.48	<4.91	<4.68	<6.12
>C12-C16 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<4.49	<5.67	<4.48	<4.91	<4.68	<6.12
>C16-C21 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	4	mg/kg [^]	U		<4.49	<5.67	7.68	<4.91	<4.68	<6.12
>C21-C35 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	10	mg/kg [^]	U		<11.2	23.6	94.7	<12.3	<11.7	<15.3
>C35-C44 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	6	mg/kg [^]	N		<6.74	<8.50	60.7	<7.36	<7.02	<9.17
Total TPH >C8-C40 (Aliphatic) EH_CU_1D_AL	TPHFIDUS (Aliphatic)	20	mg/kg [^]	U		<22.5	34.0	148	<24.5	<23.4	<30.6
>C10-C12 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg [^]	U		<4.49	<5.67	<4.48	<4.91	<4.68	<6.12



Client: The Environmental Laboratory Ltd
 Project Name: Elab-23-46745
 Project No: 23021919
 Date Issued: 01/03/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004	005	006	007
					Customer ID	312240	312241	312242	312243	312245	312246	312248
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023
>C12-C16 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg^	U		6.43	9.57	<4.84	6.75	53.7	<5.25	6.74
>C16-C21 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg^	U		<5.25	10.3	<4.84	6.23	187	<5.25	10.1
>C21-C35 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	10	mg/kg^	U		18.4	20.6	<12.1	14.9	109	<13.1	35.4
>C35-C44 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	6	mg/kg^	N		24.4	22.5	<7.26	17.6	<7.54	<7.87	<7.75
Total TPH >C8-C40 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	20	mg/kg^	U		60.3	70.5	<24.2	53.9	354	<26.2	58.7
Total Moisture at 35°C	CLANDPREP	0.1	%	N		23.8	18.5	17.3	18.0	20.4	23.8	22.6
Description of Solid Material	CLANDPREP		-	N		CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY

Client: The Environmental Laboratory Ltd
 Project Name:
 Project No: 23021919
 Date Issued: 01/03/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	008	009	010	011	012	013
					Customer ID	312249	312251	312253	312256	312257	312258
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023
>C12-C16 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg^	U		<4.49	<5.67	4.93	<4.91	<4.68	<6.12
>C16-C21 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	4	mg/kg^	U		5.66	8.68	20.4	<4.91	<4.68	<6.12
>C21-C35 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	10	mg/kg^	U		<11.2	70.9	128	<12.3	24.6	<15.3
>C35-C44 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	6	mg/kg^	N		<6.74	23.2	103	<7.36	<7.02	<9.17
Total TPH >C8-C40 (Aromatic) EH_CU_1D_AR	TPHFIDUS (Aromatic)	20	mg/kg^	U		<22.5	101	225	<24.5	35.8	<30.6
Total Moisture at 35°C	CLANDPREP	0.1	%	N		11.0	29.4	10.7	18.5	14.5	34.6
Description of Solid Material	CLANDPREP		-	N		SILT	SILT	SILT	CLAY	SILT	MADE GROUND



Client: The Environmental Laboratory Ltd
 Project Name: Elab-23-46745
 Project No: 23021919
 Date Issued: 01/03/2023

Deviating Sample Report

<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
312240	23021919-001	BTEXHSA			✓			
312241	23021919-002	BTEXHSA			✓			
312242	23021919-003	BTEXHSA			✓			
312243	23021919-004	BTEXHSA			✓			
312245	23021919-005	BTEXHSA			✓			
312246	23021919-006	BTEXHSA			✓			
312248	23021919-007	BTEXHSA			✓			
312249	23021919-008	BTEXHSA			✓			
312251	23021919-009	BTEXHSA			✓			
312253	23021919-010	BTEXHSA			✓			
312256	23021919-011	BTEXHSA			✓			
312257	23021919-012	BTEXHSA			✓			
312258	23021919-013	BTEXHSA			✓			

Analysis Method

Method Code

BTEXHSA
 CLANDPREP
 CLANDPREP
 GROHSA/BTEXHSA
 TPHFIDUS (Aliphatic)
 TPHFIDUS (Aromatic)

Method Description

BTEX by GCFID
 Basic Solid Description
 DW35 - CLand Prep and Dry Weight Correction to 35°C
 GRO CWG UK (C5-C10) Ali/Aro Split
 TPH (CWG UK) Aliphatic Split with Carbon Banding
 TPH (CWG UK) Aromatic Split with Carbon Banding

Analysis Method

As Received
 As Received
 As Received
 As Received
 As Received
 As Received



Client: The Environmental Laboratory Ltd
Project Name: Elab-23-46745
Project No: 23021919
Date Issued: 01/03/2023

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing . Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: The Environmental Laboratory Ltd
Project Name: Elab-23-46745
Project No: 23021919
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Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

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Report generated 07/03/2023

Report title Park Farm Area, Boorley Gardens



Created by SA at GESL

BASIC SETTINGS

Land Use Residential with produce (C4SL)

Building Semi-detached house

Receptor Female (res C4SL)

Start age class 1

End age class 6

Exposure Duration 6 years

Soil Sandy clay loam

Exposure Pathways

Direct soil and dust ingestion ☒

Consumption of homegrown produce ☒

Soil attached to homegrown produce ☒

Dermal contact with indoor dust ☒

Dermal contact with soil ☒

Inhalation of indoor dust ☒

Inhalation of soil dust ☒

Inhalation of indoor vapour ☒

Inhalation of outdoor vapour ☒



Land Use Residential with produce (C4SL)

Receptor Female (res C4SL)

Age Class	Exposure Frequencies (days yr ⁻¹)						Occupation Periods (hr day ⁻¹)		Soil to skin adherence factors (mg cm ²)		Direct soil ingestion rate (g day ⁻¹)	Body weight (kg)	Body height (m)	Inhalation rate (m ³ day ⁻¹)	Max exposed skin factor		Total skin area (m ²)
	Direct soil ingestion	Consumption of homegrown produce	Dermal contact with indoor dust	Dermal contact with soil	Inhalation of dust and vapour, indoor	Inhalation of dust and vapour, outdoor	Indoors	Outdoors	Indoor						Indoor (m ² m ⁻²)	Outdoor (m ² m ⁻²)	
									Indoor	Outdoor							
1	180	180	180	170	365	365	23.0	1.0	0.06	0.10	0.10	5.60	0.7	5.4	0.32	0.26	3.43E-01
2	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	9.80	0.8	8.0	0.33	0.26	4.84E-01
3	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	12.70	0.9	8.9	0.32	0.25	5.82E-01
4	365	365	365	170	365	365	23.0	1.0	0.06	0.10	0.10	15.10	0.9	10.1	0.35	0.28	6.36E-01
5	365	365	365	170	365	365	19.0	1.0	0.06	0.10	0.10	16.90	1.0	10.1	0.35	0.28	7.04E-01
6	365	365	365	170	365	365	19.0	1.0	0.06	0.10	0.10	19.70	1.1	10.1	0.33	0.26	7.94E-01
7	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	22.10	1.2	12.0	0.22	0.15	8.73E-01
8	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	25.30	1.2	12.0	0.22	0.15	9.36E-01
9	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	27.50	1.3	12.0	0.22	0.15	1.01E+00
10	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	31.40	1.3	12.0	0.22	0.15	1.08E+00
11	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	35.70	1.4	12.0	0.22	0.14	1.19E+00
12	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	41.30	1.4	15.2	0.22	0.14	1.29E+00
13	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	47.20	1.5	15.2	0.22	0.14	1.42E+00
14	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	51.20	1.6	15.2	0.22	0.14	1.52E+00
15	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	56.70	1.6	15.2	0.21	0.14	1.60E+00
16	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	59.00	1.6	15.2	0.21	0.14	1.63E+00
17	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	70.00	1.6	15.7	0.33	0.27	1.78E+00
18	0	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	70.90	1.6	13.6	0.33	0.27	1.80E+00



Consumption Rates

Age Class	Consumption rates (a FW kg^{-1} bodyweight day^{-1}) by Produce Group											
	MEAN RATES						90TH PERCENTILE RATES					
	Green veg	Root veg	Tuber veg	Herb. Fruit	Shrub fruit	Tree fruit	Green veg	Root veg	Tuber veg	Herb. Fruit	Shrub fruit	Tree fruit
1	3.47E+00	5.22E+00	9.22E+00	8.90E-01	1.07E+00	1.87E+00	7.12E+00	1.07E+01	1.60E+01	1.83E+00	2.23E+00	3.82E+00
2	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
3	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
4	3.34E+00	1.61E+00	3.14E+00	1.93E+00	2.60E-01	5.84E+00	5.87E+00	2.83E+00	6.60E+00	3.39E+00	4.60E-01	1.03E+01
5	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
6	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
7	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
8	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
9	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
10	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
11	2.54E+00	1.20E+00	2.65E+00	1.25E+00	1.10E-01	2.89E+00	4.53E+00	2.14E+00	4.95E+00	2.24E+00	1.90E-01	5.16E+00
12	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
13	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
14	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
15	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
16	1.03E+00	4.90E-01	1.60E+00	5.10E-01	4.00E-02	1.18E+00	1.87E+00	8.90E-01	3.05E+00	9.30E-01	8.00E-02	2.13E+00
17	1.26E+00	6.00E-01	1.18E+00	6.90E-01	9.00E-02	1.27E+00	2.36E+00	1.12E+00	2.35E+00	1.29E+00	1.80E-01	2.38E+00
18	1.35E+00	6.40E-01	1.25E+00	7.40E-01	1.00E-01	1.36E+00	2.34E+00	1.12E+00	2.36E+00	1.28E+00	1.80E-01	2.37E+00

Top 2 applied? Yes

Where top 2 method is applied, two produce categories use 90th percentile rates, while the remainder use the mean. Produce categories vary on a chemical-by-chemical basis. Where top 2 method is not used, all produce categories for all chemicals assume 90th percentile rates.

Building Semi-detached house**Soil** Sandy clay loam

Building footprint (m ²)	4.30E+01
Living space air exchange rate (hr ⁻¹)	5.00E-01
Living space height (above ground, m)	4.80E+00
Living space height (below ground, m)	0.00E+00
Pressure difference (soil to enclosed space, Pa)	3.10E+00
Foundation thickness (m)	1.50E-01
Floor crack area (cm ²)	5.25E+02
Dust loading factor (µg m ⁻³)	5.00E+01

Porosity, Total (cm ³ cm ⁻³)	5.30E-01
Porosity, Air-Filled (cm ³ cm ⁻³)	1.60E-01
Porosity, Water-Filled (cm ³ cm ⁻³)	3.70E-01
Residual soil water content (cm ³ cm ⁻³)	1.50E-01
Saturated hydraulic conductivity (cm s ⁻¹)	2.37E-03
van Genuchten shape parameter <i>m</i> (dimensionless)	3.10E-01
Bulk density (g cm ⁻³)	1.20E+00
Threshold value of wind speed at 10m (m s ⁻¹)	7.20E+00
Empirical function (<i>F_s</i>) for dust model (dimensionless)	1.22E+00
Ambient soil temperature (K)	2.83E+02
Soil pH	8.85E+00
Soil Organic Matter content (%)	2.50E+00
Fraction of organic carbon (g g ⁻¹)	1.45E-02
Effective total fluid saturation (unitless)	5.79E-01
Intrinsic soil permeability (cm ²)	3.16E-08
Relative soil air permeability (unitless)	5.78E-01
Effective air permeability (cm ²)	1.83E-08

Soil - Vapour Model

Depth to top of source (no building) (cm)	0
Depth to top of source (beneath building) (cm)	65
Default soil gas ingress rate?	Yes
Soil gas ingress rate ($\text{cm}^3 \text{s}^{-1}$)	2.50E+01
Building ventilation rate ($\text{cm}^3 \text{s}^{-1}$)	2.87E+04
Averaging time surface emissions (yr)	6
Finite vapour source model?	No
Thickness of contaminated layer (cm)	200

Air Dispersion Model

Mean annual windspeed at 10m (m s^{-1})	5.00
Air dispersion factor at height of 0.8m *	2400.00
Air dispersion factor at height of 1.6m *	0.00
Fraction of site cover ($\text{m}^2 \text{m}^{-2}$)	0.75

* Air dispersion factor in $\text{g m}^{-2} \text{s}^{-1}$ per kg m^{-3}

Soil - Plant Model

	Dry weight conversion factor	Homegrown fraction		Soil loading factor	Preparation correction factor
	g DW g^{-1} FW	Average	High	g g^{-1} DW	dimensionless
Green vegetables	0.096	0.05	0.33	1.00E-03	2.00E-01
Root vegetables	0.103	0.06	0.40	1.00E-03	1.00E+00
Tuber vegetables	0.210	0.02	0.13	1.00E-03	1.00E+00
Herbaceous fruit	0.058	0.06	0.40	1.00E-03	6.00E-01
Shrub fruit	0.166	0.09	0.60	1.00E-03	6.00E-01
Tree fruit	0.157	0.04	0.27	1.00E-03	6.00E-01

Gardener type Average

CLEA Software Version 1.071

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Report generated 07-Mar-23

Report title Park Farm Area, Boorley Gardens

Created by SA at GESL



RESULTS

[illegible]

[illegible]

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	Average Daily Exposure ($\text{mg kg}^{-1} \text{ bw day}^{-1}$)	Distribution by Pathway (%)
	Direct soil ingestion Consumption of homegrown produce and attached soil Dermal contact with soil and dust Inhalation of dust Inhalation of vapour Background (oral) Background (inhalation)	Direct soil ingestion Consumption of homegrown produce and attached soil Dermal contact with soil and dust Inhalation of dust Inhalation of vapour (indoor) Inhalation of vapour (outdoor) Background (oral) Background (inhalation)
1 Benzo(b)fluoranthene	3.66E-05 2.31E-07 2.12E-06 8.17E-08 4.87E-09 6.19E-06 7.88E-07	93.96 0.59 5.45 0.00 0.00 0.00 0.00
2 Benzo(a)pyrene (C4SL child)	3.68E-05 3.03E-06 2.13E-06 8.19E-08 3.69E-09 0.00E+00 0.00E+00	87.52 7.20 5.07 0.20 0.01 0.00 0.00
3 Dibenz(ah)anthracene	2.91E-06 1.84E-08 1.69E-07 6.49E-09 4.86E-10 2.25E-06 2.00E-06	93.96 0.59 5.45 0.00 0.00 0.00 0.00
4 Lead (C4SL child)	8.94E-04 5.04E-04 0.00E+00 2.13E-06 0.00E+00 0.00E+00 0.00E+00	63.85 35.99 0.00 0.15 0.00 0.00 0.00
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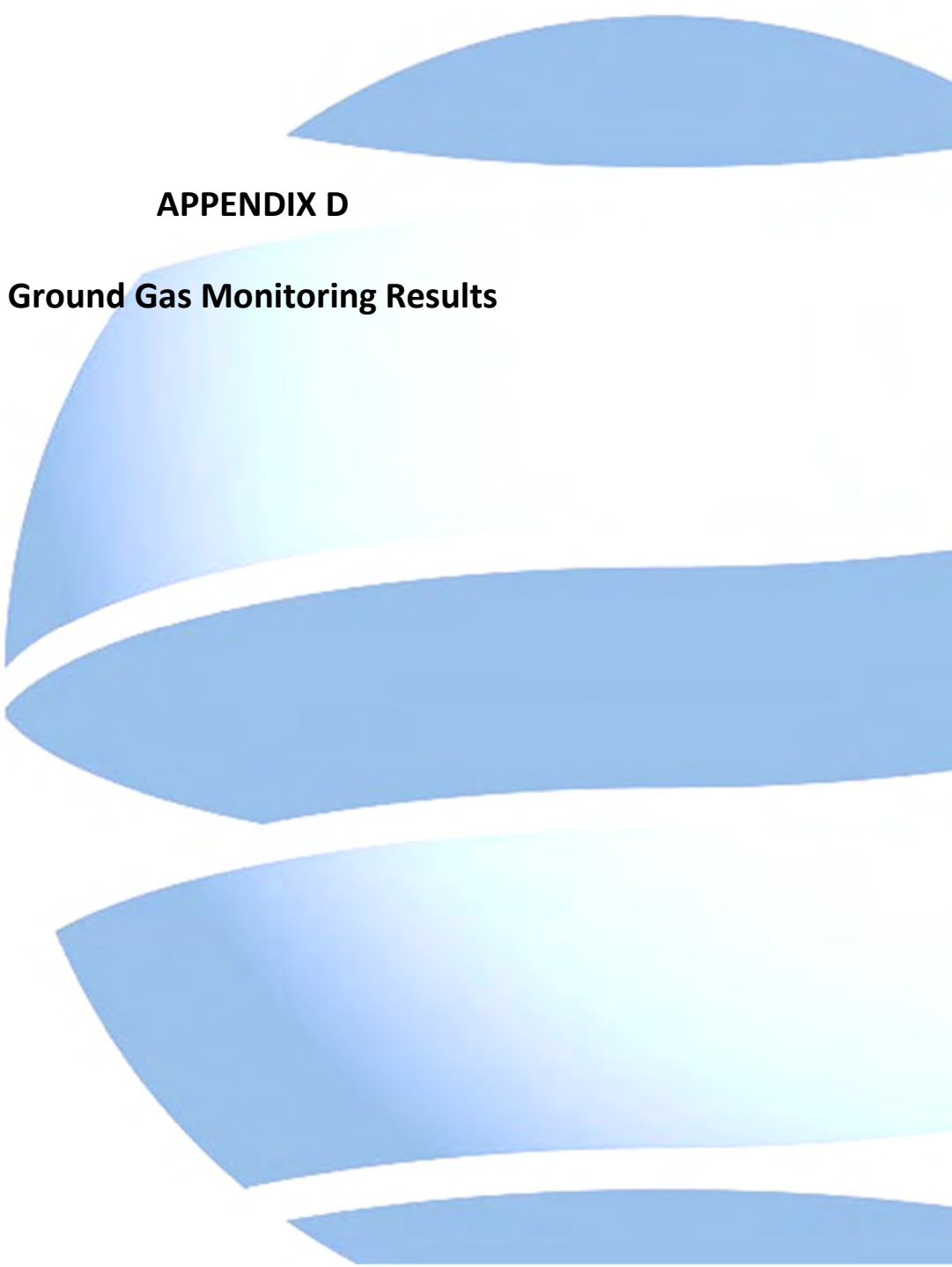
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APPENDIX D

Ground Gas Monitoring Results

Project: Park Farm, Boorley Gardens, Winchester Road, Southampton, SO32 2BX
Ref: GE20584
Client: Bellway Homes & Miller Homes



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.
WS01	26/05/22	0	0.0	0.3	20.9	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	10	0.0	2.8	18.9	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	20	0.0	2.8	18.3	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	30	0.0	2.8	18.2	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	60	0.0	2.9	18.2	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	90	0.0	2.9	18.2	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	120	0.0	2.9	18.2	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	26/05/22	180	0.0	2.8	18.3	0.0	9.5	1023	2.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	26/05/22	0	0.0	0.0	2.6	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	26/05/22	10	3.8	3.1	10.1	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	20	3.8	3.1	1.1	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	30	3.9	3.1	0.4	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	60	4.0	3.2	0.3	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	90	4.0	3.2	0.2	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	120	4.1	3.4	0.2	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	26/05/22	180	4.2	3.6	0.2	0.0	17.5	1022	1.45	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS03	26/05/22	0	0.0	0.1	20.8	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	10	0.0	2.7	19.8	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	20	0.0	2.8	19.3	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	30	0.0	2.8	19.3	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	60	0.0	2.4	19.4	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	90	0.0	2.3	19.4	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	120	0.0	2.2	19.4	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	26/05/22	180	0.0	2.1	19.5	0.0	14.4	1023	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	0	0.0	0.1	20.8	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	10	0.0	2.2	20.1	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	20	0.0	5.5	19.1	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS04	26/05/22	30	0.0	2.6	19.0	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	60	0.0	6.3	18.9	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS04	26/05/22	90	0.0	2.1	19.0	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	120	0.0	2.0	19.0	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	26/05/22	180	0.0	1.8	19.1	0.0	0.5	1022	3.51	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	0	0.2	0.4	19.1	0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	10	0.2	1.2	17.9	0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	20				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	30				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	60				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	90				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	120				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	26/05/22	180				0.0	0.0	1023	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	0	0.0	0.2	20.3	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	10	0.0	2.4	19.9	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	20	0.0	3.3	18.1	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	30	0.0	3.3	17.2	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	60	0.0	3.5	17.4	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Park Farm, Boorley Gardens, Winchester Road, Southampton, SO32 2BX
Ref: GE20584
Client: Bellway Homes & Miller Homes

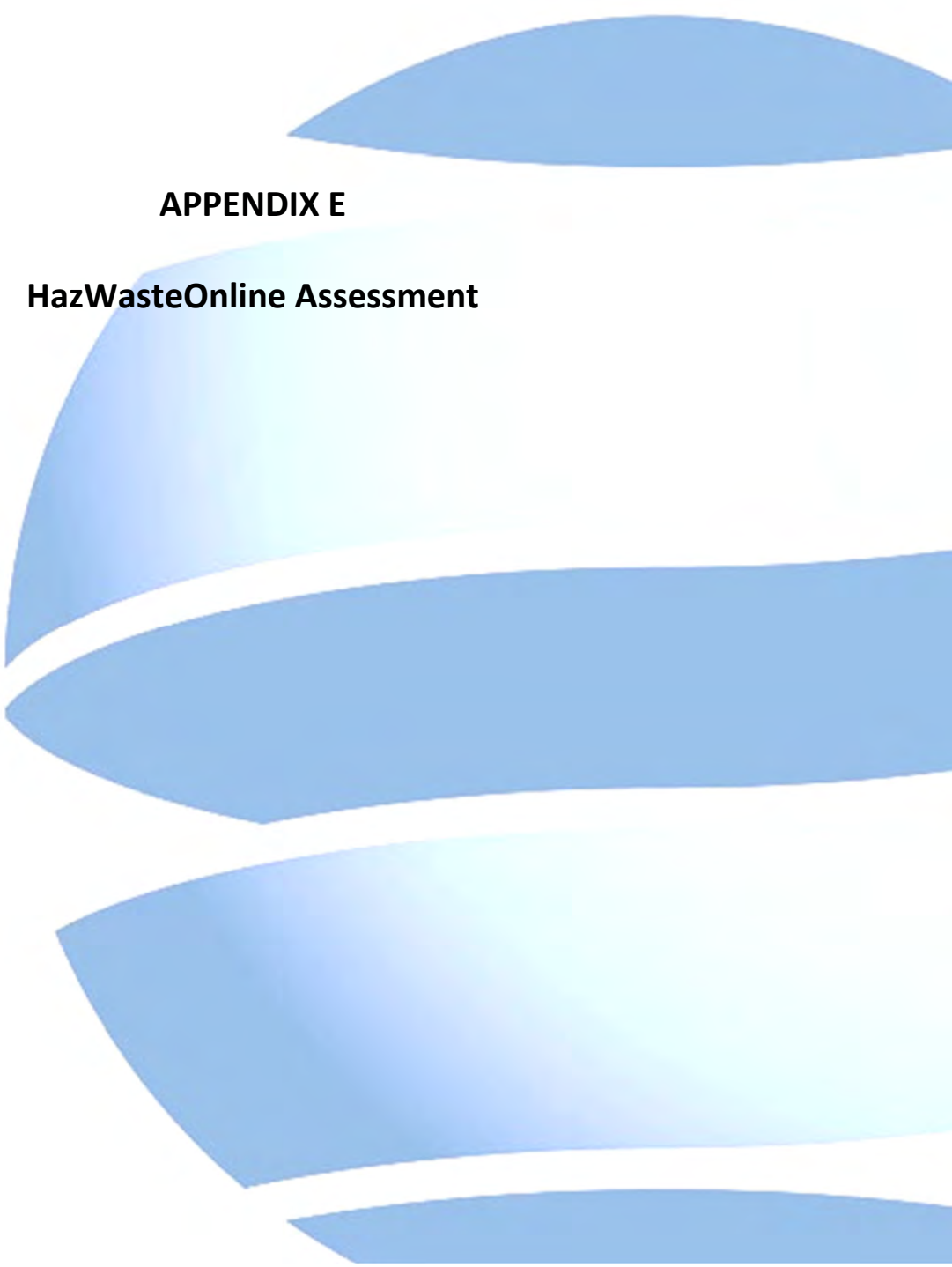


Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	08/06/22	90	0.0	3.5	17.4	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	120	0.0	3.5	17.3	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/06/22	180	0.0	3.5	17.4	0.0	1.2	1002	2.08	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/06/22	0	0.0	0.0	20.3	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/06/22	10	1.9	1.8	15.6	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	08/06/22	20	2.4	2.4	13.5	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	08/06/22	30	3.6	2.2	4.6	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	08/06/22	60	3.9	2.1	1.0	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	08/06/22	90	3.9	4.5	1.4	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	08/06/22	120	4.4	5.4	0.4	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	CO2>CS1 limit	GREEN	AMBER 1	GREEN	AMBER 1
WS02	08/06/22	180	4.5	5.9	0.4	0.0	0.7	1002	1.00	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	CO2>CS1 limit	GREEN	AMBER 1	GREEN	AMBER 1
WS03	08/06/22	0	0.0	0.5	18.1	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	10	0.0	3.6	18.1	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	20	0.0	4.0	18.4	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	30	0.0	4.0	18.4	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	60	0.0	4.0	18.5	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	90	0.0	3.2	18.7	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	120	0.0	3.0	18.8	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	08/06/22	180	0.0	2.8	18.9	0.0	3.2	1002	1.19	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	0	0.0	0.0	20.7	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	10	0.0	1.1	20.5	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	20	0.0	1.4	20.1	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	30	0.0	1.7	19.9	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	60	0.0	1.5	19.9	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	90	0.0	1.5	19.6	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	120	0.0	1.4	19.7	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	08/06/22	180	0.0	1.4	19.6	0.0	2.5	1002	1.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	0	0.0	0.3	19.8	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	10	0.0	0.8	19.8	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	20	0.0	0.8	19.9	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	30	0.0	0.6	20.2	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	60	0.0	0.3	20.5	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	90	0.0	0.3	20.7	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	120	0.0	0.4	20.6	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/06/22	180	0.0	0.4	20.6	0.0	0.6	1002	0.66	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	0	0.0	0.0	20.5	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	10	0.0	2.4	20.1	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	20	0.0	3.2	19.0	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	30	0.0	3.4	18.3	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	60	0.0	3.4	18.2	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	90	0.0	3.4	18.5	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	120	0.0	3.4	18.5	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	15/06/22	180	0.0	3.4	18.2	0.0	6.3	1015	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	15/06/22	0	0.0	0.1	21.0	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	15/06/22	10	1.7	4.1	12.3	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN

Project: Park Farm, Boorley Gardens, Winchester Road, Southampton, SO32 2BX
Ref: GE20584
Client: Bellway Homes & Miller Homes



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.
WS02	15/06/22	20	3.0	4.7	3.1	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	15/06/22	30	3.8	4.8	1.3	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	15/06/22	60	4.2	4.8	0.5	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	15/06/22	90	4.3	4.9	0.3	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	15/06/22	120	4.4	4.9	0.3	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS02	15/06/22	180	4.6	4.9	0.2	0.0	19.2	1016	1.42	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS03	15/06/22	0	0.0	0.3	19.3	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	10	0.0	2.6	19.6	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	20	0.0	3.1	19.2	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	30	0.0	3.2	19.1	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	60	0.0	3.1	19.1	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	90	0.0	2.8	19.2	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	120	0.0	2.5	19.3	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	15/06/22	180	0.0	2.4	19.3	0.0	0.7	1015	1.27	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	0	0.0	0.1	19.9	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	10	0.0	1.0	20.1	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	20	0.0	1.1	20.0	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	30	0.0	1.1	19.9	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	60	0.0	1.1	19.8	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	90	0.0	1.1	19.8	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	120	0.0	1.1	19.8	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	180	0.0	1.1	19.8	0.0	14.3	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	0	0.0	0.1	21.0	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	10	0.0	0.4	21.0	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	20	0.0	1.3	20.7	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	30	0.0	2.1	20.1	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	60	0.0	2.4	19.7	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	90	0.0	3.2	19.5	0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	120				0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	15/06/22	180				0.0	1.1	1016	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
Max values			4.6	6.3	21.0	0.0	19.2	1023.0	3.51	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	CO2>CS1 limit	GREEN	AMBER 1	GREEN	AMBER 1
Min Vaues			0.0	0.0	0.2	0.0	0.0	1002.0	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			4.6	6.3	21.0	0.1	-	-	-	0.005	0.006	CS1	CS1	NO	CH4>CS1 limit	CO2>CS1 limit	GREEN	AMBER 1	GREEN	AMBER 1



APPENDIX E

HazWasteOnline 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)



3R5SY-7SBY0-S0LKO

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

Job name

GE20584 Waste Soil Assessment

Description/Comments

Eurofins Chemtest Report No.: 22-19200-1

Project

GE20584

Site

Park Farm, Boorley Gardens

Classified by

Name: **Shaun Armitage**
 Date: **22 Jun 2022 14:25 GMT**
 Telephone:
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Rd
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
 09 Jun 2022

Next 3 year Refresher due by Jun 2025

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS201-19/05/2022-0.1	0.1	Non Hazardous		2
2	WS201-19/05/2022-0.7	0.7	Non Hazardous		5
3	WS202-19/05/2022-0.1	0.1	Non Hazardous		10
4	WS202-19/05/2022-1.0	1.0	Hazardous	HP 7, HP 11	13
5	WS202-19/05/2022-3.7	3.7-3.9	Non Hazardous		19
6	WS203-19/05/2022-0.2	0.2	Non Hazardous		24
7	WS204-19/05/2022-0.1	0.1	Non Hazardous		27
8	WS204-19/05/2022-2.0	2.0-2.2	Non Hazardous		30
9	WS205-19/05/2022-0.4	0.4	Non Hazardous		33
10	WS205-19/05/2022-1.0	1.0	Non Hazardous		36

Related documents

#	Name	Description
1	HWOL_22-19200-20220622 150448.hwol	.hwol file used to create the Job
2	GESL Soils Waste Stream Template	waste stream template used to create this Job

Report

Created by: Shaun Armitage

Created date: 22 Jun 2022 14:25 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	39
Appendix B: Rationale for selection of metal species	43
Appendix C: Version	44

Classification of sample: WS201-19/05/2022-0.1

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

Sample details

Sample name:	LoW Code:
WS201-19/05/2022-0.1	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)
0.1 m	
Moisture content:	
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% 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 }				3.1 mg/kg	1.32	3.643 mg/kg	0.000364 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11 mg/kg	1.462	14.309 mg/kg	0.00143 %	✓		
		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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				8.6 mg/kg	1.126	8.618 mg/kg	0.000862 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	37 mg/kg	1.56	51.365 mg/kg	0.00329 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				3.3 mg/kg	2.976	8.741 mg/kg	0.000874 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				13 mg/kg	1.785	20.655 mg/kg	0.00207 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
13	zinc { zinc chromate }				32 mg/kg	2.774	79.008 mg/kg	0.0079 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.8 mg/kg	1.884	1.341 mg/kg	0.000134 %	✓		
	006-007-00-5										
21	pH		PH		7.8 pH		7.8 pH	7.8 pH			
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.45 mg/kg		0.401 mg/kg	0.0000401 %	✓		
		201-581-5	85-01-8								
27	anthracene				0.13 mg/kg		0.116 mg/kg	0.0000116 %	✓		
		204-371-1	120-12-7								
28	fluoranthene				1.1 mg/kg		0.979 mg/kg	0.0000979 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.99 mg/kg		0.881 mg/kg	0.0000881 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.58 mg/kg		0.516 mg/kg	0.0000516 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.54 mg/kg		0.481 mg/kg	0.0000481 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.77 mg/kg		0.685 mg/kg	0.0000685 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.26 mg/kg		0.231 mg/kg	0.0000231 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.69 mg/kg		0.614 mg/kg	0.0000614 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.44 mg/kg		0.392 mg/kg	0.0000392 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				0.13 mg/kg		0.116 mg/kg	0.0000116 %	✓		
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.49 mg/kg		0.436 mg/kg	0.0000436 %	✓		
		205-883-8	191-24-2								
38	sulfur { sulfur }				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols		P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0191 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS201-19/05/2022-0.7

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

Sample details

Sample name:	LoW Code:
WS201-19/05/2022-0.7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.7 m	Entry:
Moisture content:	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	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
		215-535-7 [4]	1330-20-7 [4]							
7	naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
16	chrysene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							

#	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[b]fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-883-8	191-24-2							
23	phenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
24	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
25	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
26	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
27	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
28	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
29	hexachlorobenzene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
30	dichlorodifluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-893-9	75-71-8							
31	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
32	bromomethane; methylbromide				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
33	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
34	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
35	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
36	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
37	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
38	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
39	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
40	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
41	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
42	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
43	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]							
44	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6							
45	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							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
46	1,3-dichloropropane	205-531-3	142-28-9		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
47	dibromochloromethane	204-704-0	124-48-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
48	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
50	1,1,1,2-tetrachloroethane	211-135-1		630-20-6	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
51	styrene	601-026-00-0	202-851-5	100-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
52	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
53	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
54	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
55	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
56	tert-butylbenzene		202-632-4	98-06-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
57	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
58	sec-butylbenzene		205-227-0	135-98-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
59	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
60	4-isopropyltoluene		202-796-7	99-87-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
61	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
62	n-butylbenzene		203-209-7	104-51-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
63	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
64	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
65	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
66	hexachlorobutadiene		201-765-5	87-68-3	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
67	1,2,3-trichlorobenzene		201-757-1	87-61-6	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
68	dimethylnitrosoamine; N-nitrosodimethylamine	612-077-00-3	200-549-8	62-75-9	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
69	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]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
70	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
71	hexachloroethane		200-666-4	67-72-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
72	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
73	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<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							
74	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
75	2-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-857-5	88-75-5							
76	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]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]	95-87-4						
		202-461-5 [2]	[2] 105-67-9 [3]							
		203-321-6 [3]	526-75-0 [4]							
		208-395-3 [4]	576-26-1 [5]							
		209-400-1 [5]	1300-71-6 [6]							
		215-089-3 [6]	71975-58-1 [7]							
		276-245-4 [7]								
77	bis(2-chloroethoxy)methane				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		203-920-2	111-91-1							
78	2,4-dichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
79	4-chloroaniline				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
80	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
81	2-methyl naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-078-3	91-57-6							
82	4-nitrophenol; p-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
83	hexachlorocyclopentadiene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
84	2,4,6-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
85	2,4,5-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
86	2-chloronaphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-079-9	91-58-7							
87	dimethyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-011-6	131-11-3							
88	2,6-dinitrotoluene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
89	dibenzofuran				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-071-3	132-64-9							
90	4-chlorophenylphenylether				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		230-281-7	7005-72-3							
91	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-007-00-9	204-450-0 [1]	121-14-2 [1]							
		246-836-1 [2]	25321-14-6 [2]							
92	diethyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-550-6	84-66-2							
93	DNOC (ISO); 4,6-dinitro-o-cresol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-020-00-X	208-601-1	534-52-1							
94	azobenzene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
95	4-bromophenylphenylether				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-952-4	101-55-3							
96	pentachlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
97	carbazole				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-696-0	86-74-8							
98	dibutyl phthalate; DBP				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
99	BBP; benzyl butyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	607-430-00-3	201-622-7	85-68-7							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
100		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		607-317-00-9	204-211-0	117-81-7							
101	•	di-n-octyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
			204-214-7	117-84-0							
102		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		604-004-00-9	203-577-9 [1]	108-39-4 [1]							
			202-423-8 [2]	95-48-7 [2]							
			203-398-6 [3]	106-44-5 [3]							
			215-293-2 [4]	1319-77-3 [4]							
103		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
104		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1]	98-82-8 [1]							
			203-132-9 [2]	103-65-1 [2]							
105		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<1.5 mg/kg		<1.5 mg/kg	<0.00015 %		<LOD
		612-012-00-9	201-855-4 [1]	88-74-4 [1] 99-09-2							
			202-729-1 [2]	[2] 100-01-6 [3]							
			202-810-1 [3]								
Total: 0.00387 %											

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
ND	Not detected

Classification of sample: WS202-19/05/2022-0.1

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

Sample details

Sample name:	LoW Code:
WS202-19/05/2022-0.1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

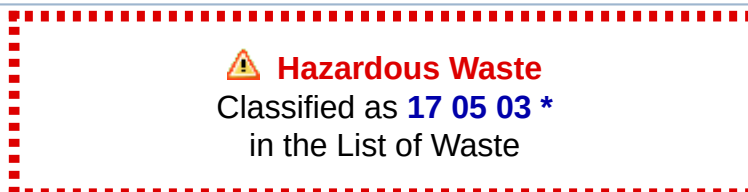
#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				3.3 mg/kg	1.32	3.486 mg/kg	0.000349 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }										
		004-003-00-8	215-133-1	1304-56-9		<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD	
3		boron { diboron trioxide; boric oxide }				0.42 mg/kg	3.22	1.082 mg/kg	0.000108 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }										
		048-002-00-0	215-146-2	1306-19-0		0.21 mg/kg	1.142	0.192 mg/kg	0.0000192 %	✓		
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.3 mg/kg	1.462	9.705 mg/kg	0.00097 %	✓		
			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 }										
		024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD	
7		copper { dicopper oxide; copper (I) oxide }				13 mg/kg	1.126	11.709 mg/kg	0.00117 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }										
		082-004-00-2	231-846-0	7758-97-6	1	56 mg/kg	1.56	69.88 mg/kg	0.00448 %	✓		
9		mercury { mercury dichloride }				0.05 mg/kg	1.353	0.0541 mg/kg	0.00000541 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }										
		028-035-00-7	238-766-5	14721-18-7		3.8 mg/kg	2.976	9.048 mg/kg	0.000905 %	✓		
11		selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		vanadium { divanadium pentaoxide; vanadium pentoxide }										
		023-001-00-8	215-239-8	1314-62-1		14 mg/kg	1.785	19.994 mg/kg	0.002 %	✓		
13		zinc { zinc chromate }				130 mg/kg	2.774	288.511 mg/kg	0.0289 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
14		TPH (C6 to C40) petroleum group										
				TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	pH		PH		8 pH		8 pH	8pH		
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
26	phenanthrene				0.18 mg/kg		0.144 mg/kg	0.0000144 %	✓	
		201-581-5	85-01-8							
27	anthracene				0.12 mg/kg		0.096 mg/kg	0.0000096 %	✓	
		204-371-1	120-12-7							
28	fluoranthene				0.49 mg/kg		0.392 mg/kg	0.0000392 %	✓	
		205-912-4	206-44-0							
29	pyrene				0.56 mg/kg		0.448 mg/kg	0.0000448 %	✓	
		204-927-3	129-00-0							
30	benzo[a]anthracene				0.36 mg/kg		0.288 mg/kg	0.0000288 %	✓	
	601-033-00-9	200-280-6	56-55-3							
31	chrysene				0.38 mg/kg		0.304 mg/kg	0.0000304 %	✓	
	601-048-00-0	205-923-4	218-01-9							
32	benzo[b]fluoranthene				0.47 mg/kg		0.376 mg/kg	0.0000376 %	✓	
	601-034-00-4	205-911-9	205-99-2							
33	benzo[k]fluoranthene				0.13 mg/kg		0.104 mg/kg	0.0000104 %	✓	
	601-036-00-5	205-916-6	207-08-9							
34	benzo[a]pyrene; benzo[def]chrysene				0.54 mg/kg		0.432 mg/kg	0.0000432 %	✓	
	601-032-00-3	200-028-5	50-32-8							
35	indeno[123-cd]pyrene				0.46 mg/kg		0.368 mg/kg	0.0000368 %	✓	
		205-893-2	193-39-5							
36	dibenz[a,h]anthracene				0.075 mg/kg		0.06 mg/kg	0.000006 %	✓	
	601-041-00-2	200-181-8	53-70-3							
37	benzo[ghi]perylene				0.58 mg/kg		0.464 mg/kg	0.0000464 %	✓	
		205-883-8	191-24-2							
38	sulfur { sulfur }				4 mg/kg		3.2 mg/kg	0.00032 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
39	monohydric phenols		P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
Total:								0.041 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS202-19/05/2022-1.0



Sample details

Sample name:	LoW Code:
WS202-19/05/2022-1.0	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
1.0 m	
Moisture content:	
19%	
(wet weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

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	TPH (C6 to C40) petroleum group				1800 mg/kg		1458 mg/kg	0.146 %	✓	
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
7	naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
9	acenaphthene	201-469-6	83-32-9		0.84 mg/kg		0.68 mg/kg	0.000068 %	✓	
10	fluorene	201-695-5	86-73-7		1.1 mg/kg		0.891 mg/kg	0.0000891 %	✓	
11	phenanthrene	201-581-5	85-01-8		2.5 mg/kg		2.025 mg/kg	0.000202 %	✓	
12	anthracene	204-371-1	120-12-7		0.67 mg/kg		0.543 mg/kg	0.0000543 %	✓	
13	fluoranthene	205-912-4	206-44-0		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
14	pyrene	204-927-3	129-00-0		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
19	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
20	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
22	benzo[ghi]perylene	205-883-8	191-24-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
23	phenol	604-001-00-2	203-632-7	108-95-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
24	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
25	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
26	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
27	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
28	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
29	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
30	dichlorodifluoromethane	200-893-9	75-71-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
31	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
32	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
33	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
34	trichlorofluoromethane	200-892-3	75-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
35	1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
36	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
39	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
40	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
41	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
42	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
43	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] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
44	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6							
45	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							
46	1,3-dichloropropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		205-531-3	142-28-9							
47	dibromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1							
48	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
49	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
50	1,1,1,2-tetrachloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		211-135-1	630-20-6							
51	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
52	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
53	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
54	1,2,3-trichloropropane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
55	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
56	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
57	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
58	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
59	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
60	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
61	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
62	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
63	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
64	1,2-dibromo-3-chloropropane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
65	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
66	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
67	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
68	dimethylnitrosoamine; N-nitrosodimethylamine	612-077-00-3	200-549-8	62-75-9	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
69	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]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
70	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
71	hexachloroethane	200-666-4	67-72-1		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
72	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
73	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
74	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
75	2-nitrophenol	201-857-5	88-75-5		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
76	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
77	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
78	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
79	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
80	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
81	2-methyl naphthalene	202-078-3	91-57-6		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
82	4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
83	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
84	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
85	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
86	2-chloronaphthalene	202-079-9	91-58-7		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
87	dimethyl phthalate	205-011-6	131-11-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
88	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	3 mg/kg		2.43 mg/kg	0.000243 %	✓		
89	dibenzofuran	205-071-3	132-64-9		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
90	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
91	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<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							
92	● diethyl phthalate	201-550-6	84-66-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
93	DNOC (ISO); 4,6-dinitro-o-cresol	609-020-00-X	208-601-1	534-52-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
94	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
95	● 4-bromophenylphenylether	202-952-4	101-55-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
96	pentachlorophenol	604-002-00-8	201-778-6	87-86-5	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
97	● carbazole	201-696-0	86-74-8		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
98	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
99	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
100	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
101	● di-n-octyl phthalate	204-214-7	117-84-0		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
102	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]	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
103	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	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]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
104	cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
105	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	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]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
106	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]	<1.5 mg/kg		<1.5 mg/kg	<0.00015 %		<LOD
Total:								0.149 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

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 free phase liquid

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

Classification of sample: WS202-19/05/2022-3.7

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

Sample details

Sample name:	LoW Code:
WS202-19/05/2022-3.7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.7-3.9 m	Entry:
Moisture content:	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	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
		215-535-7 [4]	1330-20-7 [4]							
7	naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
16	chrysene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							

#	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[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
18	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
19	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
20	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
21	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
22	benzo[ghi]perylene 205-883-8		191-24-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
23	phenol 604-001-00-2	203-632-7	108-95-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
24	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5		107-06-2, 75-34-3		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
25	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
26	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
27	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
28	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
29	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
30	dichlorodifluoromethane 200-893-9		75-71-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
31	chloromethane; methyl chloride 602-001-00-7	200-817-4	74-87-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
32	bromomethane; methylbromide 602-002-00-2	200-813-2	74-83-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
33	chloroethane 602-009-00-0	200-830-5	75-00-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
34	trichlorofluoromethane 200-892-3		75-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
35	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
36	bromochloromethane 200-826-3		74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
38	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
39	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
40	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
41	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
42	bromodichloromethane 200-856-7		75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	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
44	trans-1,3-dichloropropene 431-460-4		10061-02-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
46	1,3-dichloropropane	205-531-3	142-28-9		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
47	dibromochloromethane	204-704-0	124-48-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
48	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
50	1,1,1,2-tetrachloroethane	211-135-1		630-20-6	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
51	styrene	601-026-00-0	202-851-5	100-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
52	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
53	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
54	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
55	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
56	tert-butylbenzene		202-632-4	98-06-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
57	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
58	sec-butylbenzene		205-227-0	135-98-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
59	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
60	4-isopropyltoluene		202-796-7	99-87-6	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
61	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
62	n-butylbenzene		203-209-7	104-51-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
63	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
64	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
65	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
66	hexachlorobutadiene		201-765-5	87-68-3	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
67	1,2,3-trichlorobenzene		201-757-1	87-61-6	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
68	dimethylnitrosoamine; N-nitrosodimethylamine	612-077-00-3	200-549-8	62-75-9	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
69	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]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
70	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
71	hexachloroethane		200-666-4	67-72-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
72	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
73	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<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							
74	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
75	2-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-857-5	88-75-5							
76	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]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]	95-87-4						
		202-461-5 [2]	[2] 105-67-9 [3]							
		203-321-6 [3]	526-75-0 [4]							
		208-395-3 [4]	576-26-1 [5]							
		209-400-1 [5]	1300-71-6 [6]							
		215-089-3 [6]	71975-58-1 [7]							
		276-245-4 [7]								
77	bis(2-chloroethoxy)methane				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		203-920-2	111-91-1							
78	2,4-dichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
79	4-chloroaniline				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
80	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
81	2-methyl naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-078-3	91-57-6							
82	4-nitrophenol; p-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
83	hexachlorocyclopentadiene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
84	2,4,6-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
85	2,4,5-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
86	2-chloronaphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-079-9	91-58-7							
87	dimethyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-011-6	131-11-3							
88	2,6-dinitrotoluene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
89	dibenzofuran				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-071-3	132-64-9							
90	4-chlorophenylphenylether				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		230-281-7	7005-72-3							
91	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-007-00-9	204-450-0 [1]	121-14-2 [1]							
		246-836-1 [2]	25321-14-6 [2]							
92	diethyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-550-6	84-66-2							
93	DNOC (ISO); 4,6-dinitro-o-cresol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-020-00-X	208-601-1	534-52-1							
94	azobenzene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
95	4-bromophenylphenylether				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-952-4	101-55-3							
96	pentachlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
97	carbazole				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-696-0	86-74-8							
98	dibutyl phthalate; DBP				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
99	BBP; benzyl butyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	607-430-00-3	201-622-7	85-68-7							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
100		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		607-317-00-9	204-211-0	117-81-7							
101	•	di-n-octyl phthalate				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
			204-214-7	117-84-0							
102		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		604-004-00-9	203-577-9 [1]	108-39-4 [1]							
			202-423-8 [2]	95-48-7 [2]							
			203-398-6 [3]	106-44-5 [3]							
			215-293-2 [4]	1319-77-3 [4]							
103		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
104		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1]	98-82-8 [1]							
			203-132-9 [2]	103-65-1 [2]							
105		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<1.5 mg/kg		<1.5 mg/kg	<0.00015 %		<LOD
		612-012-00-9	201-855-4 [1]	88-74-4 [1]							
			202-729-1 [2]	100-01-6 [3]							
			202-810-1 [3]								
Total:									0.00387 %		

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
ND	Not detected

Classification of sample: WS203-19/05/2022-0.2

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

Sample details

Sample name:	LoW Code:
WS203-19/05/2022-0.2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content:	
10%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% 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 }				2.4 mg/kg	1.32	2.852 mg/kg	0.000285 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD	
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide; boric oxide }				0.75 mg/kg	3.22	2.173 mg/kg	0.000217 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6.7 mg/kg	1.462	8.813 mg/kg	0.000881 %	✓		
			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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				7.8 mg/kg	1.126	7.904 mg/kg	0.00079 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	18 mg/kg	1.56	25.269 mg/kg	0.00162 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }				2.7 mg/kg	2.976	7.232 mg/kg	0.000723 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		vanadium { divanadium pentaoxide; vanadium pentoxide }				10 mg/kg	1.785	16.067 mg/kg	0.00161 %	✓		
		023-001-00-8	215-239-8	1314-62-1								
13		zinc { zinc chromate }				53 mg/kg	2.774	132.327 mg/kg	0.0132 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
14		TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
				TPH								
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
21	pH		PH		8.1 pH		8.1 pH	8.1 pH			
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.11 mg/kg		0.099 mg/kg	0.0000099 %		✓	
		205-912-4	206-44-0								
29	pyrene				0.12 mg/kg		0.108 mg/kg	0.0000108 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-883-8	191-24-2								
38	sulfur { sulfur }				1.3 mg/kg		1.17 mg/kg	0.000117 %		✓	
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols		P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0209 %		

Key

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

Classification of sample: WS204-19/05/2022-0.1

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

Sample details

Sample name:	LoW Code:
WS204-19/05/2022-0.1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.8%	
(wet weight correction)	

Hazard properties

None identified

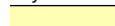
Determinands

Moisture content: 7.8% 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 }				5.8 mg/kg	1.32	7.061 mg/kg	0.000706 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.13 mg/kg	1.142	0.137 mg/kg	0.0000137 %	✓	
	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	25.604 mg/kg	0.00256 %	✓	
		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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				13 mg/kg	1.126	13.495 mg/kg	0.00135 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	150 mg/kg	1.56	215.722 mg/kg	0.0138 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.05 mg/kg	1.353	0.0624 mg/kg	0.00000624 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				8.2 mg/kg	2.976	22.502 mg/kg	0.00225 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				0.43 mg/kg	2.554	1.012 mg/kg	0.000101 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				22 mg/kg	1.785	36.211 mg/kg	0.00362 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				70 mg/kg	2.774	179.043 mg/kg	0.0179 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				32 mg/kg		29.504 mg/kg	0.00295 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
21	pH				5.9 pH		5.9 pH	5.9 pH			
			PH								
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-883-8	191-24-2								
38	sulfur { sulfur }				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
			P1186								
Total:									0.0459 %		

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
ND	Not detected
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 free phase liquid**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00295%)

Classification of sample: WS204-19/05/2022-2.0

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

Sample details

Sample name:	LoW Code:
WS204-19/05/2022-2.0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.0-2.2 m	Entry:
Moisture content:	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	arsenic { arsenic trioxide }				4.6 mg/kg	1.32	4.798 mg/kg	0.00048 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				1.3 mg/kg	3.22	3.307 mg/kg	0.000331 %		✓	
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.12 mg/kg	1.142	0.108 mg/kg	0.0000108 %		✓	
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	17.319 mg/kg	0.00173 %		✓	
		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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	8.895 mg/kg	0.000889 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	110 mg/kg	1.56	135.548 mg/kg	0.00869 %		✓	
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				6.3 mg/kg	2.976	14.813 mg/kg	0.00148 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				0.4 mg/kg	2.554	0.807 mg/kg	0.0000807 %		✓	
	028-031-00-5	239-125-2	15060-62-5								
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				18 mg/kg	1.785	25.385 mg/kg	0.00254 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
13	zinc { zinc chromate }				54 mg/kg	2.774	118.345 mg/kg	0.0118 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
21	pH		PH		7.9 pH		7.9 pH	7.9 pH			
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-883-8	191-24-2								
38	sulfur { sulfur }				12 mg/kg		9.48 mg/kg	0.000948 %	✓		
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols		P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0304 %		

Key

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

Classification of sample: WS205-19/05/2022-0.4

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

Sample details

Sample name:	LoW Code:
WS205-19/05/2022-0.4	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.4 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(wet weight correction)	

Hazard properties

None identified

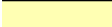
Determinands

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	arsenic { arsenic trioxide }				2.1 mg/kg	1.32	2.218 mg/kg	0.000222 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.1 mg/kg	1.462	9.471 mg/kg	0.000947 %	✓	
		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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				2.8 mg/kg	1.126	2.522 mg/kg	0.000252 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	8.9 mg/kg	1.56	11.106 mg/kg	0.000712 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				2.1 mg/kg	2.976	5 mg/kg	0.0005 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				11 mg/kg	1.785	15.71 mg/kg	0.00157 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				23 mg/kg	2.774	51.044 mg/kg	0.0051 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.6 mg/kg	1.884	0.904 mg/kg	0.0000904 %		✓	
	006-007-00-5										
21	pH				7.9 pH		7.9 pH	7.9 pH			
			P1186								
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.087 mg/kg		0.0696 mg/kg	0.00000696 %		✓	
		205-912-4	206-44-0								
29	pyrene				0.12 mg/kg		0.096 mg/kg	0.0000096 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-883-8	191-24-2								
38	sulfur { sulfur }				1.6 mg/kg		1.28 mg/kg	0.000128 %		✓	
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
			P1186								
Total:									0.011 %		

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
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Classification of sample: WS205-19/05/2022-1.0

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

Sample details

Sample name:	LoW Code:
WS205-19/05/2022-1.0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.0 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21%	
(wet weight correction)	

Hazard properties

None identified

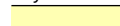
Determinands

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		arsenic { arsenic trioxide }				1.8 mg/kg	1.32	1.878 mg/kg	0.000188 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD	
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD	
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11 mg/kg	1.462	12.701 mg/kg	0.00127 %	✓		
			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 }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				3.5 mg/kg	1.126	3.113 mg/kg	0.000311 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	4.4 mg/kg	1.56	5.422 mg/kg	0.000348 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }				1.7 mg/kg	2.976	3.997 mg/kg	0.0004 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		vanadium { divanadium pentaoxide; vanadium pentoxide }				13 mg/kg	1.785	18.334 mg/kg	0.00183 %	✓		
		023-001-00-8	215-239-8	1314-62-1								
13		zinc { zinc chromate }				11 mg/kg	2.774	24.107 mg/kg	0.00241 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
14		TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
				TPH								
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
21	pH		PH		8.7 pH		8.7 pH	8.7 pH			
22	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-883-8	191-24-2								
38	sulfur { sulfur }				13 mg/kg		10.27 mg/kg	0.00103 %	✓		
	016-094-00-1	231-722-6	7704-34-9								
39	monohydric phenols		P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.00937 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• 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

■ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

■ **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

■ **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

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: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

■ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

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 , Ozone 1; H420

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

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

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

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

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

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

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

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

▪ **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

▪ **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

▪ **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

■ **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

■ **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

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

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **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

■ **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

■ **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-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

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

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Repr. 2; H361, Skin Sens. 1; H317, Resp. Sens. 1; H334, Eye Irrit. 2; H319, Aquatic Chronic 4; H413

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

beryllium {beryllium oxide}

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

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

cadmium {cadmium oxide}

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

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

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

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

Worst case species based on hazard statements/molecular weight

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species selected

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

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

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

sulfur {sulfur}

metal

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2022.168.5189.9766 (18 Jun 2022)

HazWasteOnline Database: 2022.168.5189.9766 (18 Jun 2022)

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)



B6TZH-LGX86-PFQIP

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

Job name

GE20584 Waste Soils Assessment (February 2023 Investigation)

Description/Comments

Based on ELAB Report No.: 23-46745, issue number 1 & SOCTEC Project No. 23021919

Project

GE20584

Site

Park Farm Area, Boorley Gardens

Classified by

Name: **Shaun Armitage**
 Date: **07 Mar 2023 14:31 GMT**
 Telephone:
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Rd
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
 09 Jun 2022

Next 3 year Refresher due by Jun 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Bepton Road, Midhurst

Post Code GU29 9QX

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Excavation of soils for residential development

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

Waste created by excavation of soils for residential development

Description of the waste

Clay, silt, sand and sand & gravel based Made Ground with gravel and cobble sized anthropogenic material noted in typically low proportions including brick and concrete, and less frequently asphalt, wire, metal, timber and ceramic tile. One piece of corrugated cement [sampled ACM3] in TP112.

Natural clay soils.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP101-1.50--13/02/2023	1.50	Non Hazardous		3
2	TP102-0.30--13/02/2023	0.30	Non Hazardous		5
3	TP102-1.20--13/02/2023	1.20	Non Hazardous		8
4	TP102-1.80--13/02/2023	1.80	Non Hazardous		14
5	TP103-1.50--13/02/2023	1.50	Non Hazardous		16
6	TP103-2.40--13/02/2023	2.40	Non Hazardous		22
7	TP104-1.50--13/02/2023	1.50	Non Hazardous		23
8	TP105-0.10--13/02/2023	0.10	Non Hazardous		25
9	TP107-0.10--13/02/2023	0.10	Non Hazardous		28
10	TP109-0.40--13/02/2023	0.40	Non Hazardous		31
11	TP110-0.50--13/02/2023	0.50	Non Hazardous		34
12	TP111-0.20--13/02/2023	0.20	Non Hazardous		37
13	TP112-0.10--13/02/2023	0.10	Hazardous	HP 5, HP 7	40

Related documents

#	Name	Description
1	HWOL_23-46745_20230306.HWOL	ELAB .hwol file used to populate the Job
2	GESL Soils Waste Stream Template	waste stream template used to create this Job

Report

Created by: Shaun Armitage

Created date: 07 Mar 2023 14:31 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	43
Appendix B: Rationale for selection of metal species	47
Appendix C: Version	48

Classification of sample: TP101-1.50--13/02/2023


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

Sample details

Sample name:	LoW Code:
TP101-1.50--13/02/2023	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)
24.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 24.5% 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	TPH (C6 to C40) petroleum group				86.5 mg/kg		65.308 mg/kg	0.00653 %	✓	
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	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]							
Total:								0.00654 %		

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
ND	Not detected

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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00653%)

Classification of sample: TP102-0.30--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP102-0.30--13/02/2023	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)
21.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.2% 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 }				9.1 mg/kg	1.32	9.468 mg/kg	0.000947 %	✓	
	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) }				29.4 mg/kg	1.462	33.86 mg/kg	0.00339 %	✓	
		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 }				28.9 mg/kg	1.126	25.64 mg/kg	0.00256 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	106 mg/kg	1.56	130.288 mg/kg	0.00835 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.533 mg/kg	0.0000533 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				10.4 mg/kg	2.976	24.391 mg/kg	0.00244 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				47.3 mg/kg	1.785	66.538 mg/kg	0.00665 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				341 mg/kg	2.774	745.435 mg/kg	0.0745 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				95 mg/kg		74.86 mg/kg	0.00749 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	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								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	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]								
20	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										
21	pH				8.7 pH		8.7 pH	8.7 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.04 mg/kg		0.0315 mg/kg	0.00000315 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.1 mg/kg		0.0788 mg/kg	0.00000788 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.1 mg/kg		0.0788 mg/kg	0.00000788 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.07 mg/kg		0.0552 mg/kg	0.00000552 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.06 mg/kg		0.0473 mg/kg	0.00000473 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.08 mg/kg		0.063 mg/kg	0.0000063 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.03 mg/kg		0.0236 mg/kg	0.00000236 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.0473 mg/kg	0.00000473 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.05 mg/kg		0.0394 mg/kg	0.00000394 %	✓		
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				0.04 mg/kg		0.0315 mg/kg	0.00000315 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.115 %		

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
ND	Not detected
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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00749%)

Classification of sample: TP102-1.20--13/02/2023


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

Sample details

Sample name:	LoW Code:
TP102-1.20--13/02/2023	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)
1.20 m	
Moisture content:	
18.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.5% 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	TPH (C6 to C40) petroleum group				<48.4 mg/kg		<48.4 mg/kg	<0.00484 %		<LOD
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
		215-535-7 [4]	1330-20-7 [4]							
7	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	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							
20	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5							
21	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							
22	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2							
23	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
24	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							
25	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
26	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
27	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
28	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
29	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] 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]							
30	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] 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] 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]	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] 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]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		210-621-0 [17] 213-923-0 [18] 247-861-0 [19]	619-99-8 [17] 1067-08-9 [18] 26635-64-3 [19]							
31	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	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
33	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	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
35	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
40	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
41	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
42	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
43	1,3-dichloropropane; [1] (Z)-1,3-dichloropropane [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
44	trans-1,3-dichloropropane 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	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
46	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
47	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
48	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
49	styrene 601-026-00-0	202-851-5	100-42-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
50	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
51	tert-butylbenzene 202-632-4	98-06-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
52	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
53	sec-butylbenzene 205-227-0	135-98-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
54	4-isopropyltoluene 202-796-7	99-87-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
55	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
56	n-butylbenzene 203-209-7	104-51-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
57	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
58	hexachlorobutadiene 201-765-5	87-68-3			<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							
59	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
60	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
61	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
62	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
63	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
64	aniline	612-008-00-7	200-539-3	62-53-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
65	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
66	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
67	benzyl alcohol	603-057-00-5	202-859-9	100-51-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
69	hexachloroethane		200-666-4	67-72-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	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
72	2-nitrophenol		201-857-5	88-75-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	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] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	bis(2-chloroethoxy)methane		203-920-2	111-91-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	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
78	2-methyl naphthalene		202-078-3	91-57-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	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
81	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
82	dimethyl phthalate		205-011-6	131-11-3	<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							
83	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	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
85	dibenzofuran 205-071-3	132-64-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	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
87	diethyl phthalate 201-550-6	84-66-2			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	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
90	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
92	4-bromophenylphenylether 202-952-4	101-55-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
93	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
94	carbazole 201-696-0	86-74-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
95	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	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
97	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
98	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
99	cumene; [1] propylbenzene [2] 601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
100	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
101	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
102	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
103	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
Total:								0.00495 %		

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
ND	Not detected

Classification of sample: TP102-1.80--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP102-1.80--13/02/2023	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)
1.80 m	
Moisture content:	
19.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 19.7% 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	TPH (C6 to C40) petroleum group				78.3 mg/kg		62.875 mg/kg	0.00629 %	✓	
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	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]							
Total:								0.00629 %		

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
ND	Not detected

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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: TP103-1.50--13/02/2023


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

Sample details

Sample name:	LoW Code:
TP103-1.50--13/02/2023	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)
1.50 m	
Moisture content:	
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	TPH (C6 to C40) petroleum group				795 mg/kg		628.05 mg/kg	0.0628 %	✓	
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	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]							
7	naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chrysene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	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							
20	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5							
21	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							
22	benzo[ghi]perylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2							
23	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
24	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							
25	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
26	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
27	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
28	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
29	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] 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]							
30	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] 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] 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]	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] 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]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		210-621-0 [17] 213-923-0 [18] 247-861-0 [19]	619-99-8 [17] 1067-08-9 [18] 26635-64-3 [19]							
31	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	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
33	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	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
35	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
40	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
41	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
42	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
43	1,3-dichloropropane; [1] (Z)-1,3-dichloropropane [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
44	trans-1,3-dichloropropane 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	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
46	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
47	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
48	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
49	styrene 601-026-00-0	202-851-5	100-42-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
50	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
51	tert-butylbenzene 202-632-4	98-06-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
52	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
53	sec-butylbenzene 205-227-0	135-98-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
54	4-isopropyltoluene 202-796-7	99-87-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
55	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
56	n-butylbenzene 203-209-7	104-51-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
57	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
58	hexachlorobutadiene 201-765-5	87-68-3			<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							
59	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
60	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
61	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
62	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
63	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
64	aniline	612-008-00-7	200-539-3	62-53-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
65	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
66	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
67	benzyl alcohol	603-057-00-5	202-859-9	100-51-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
69	hexachloroethane		200-666-4	67-72-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	3,5-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
72	2-nitrophenol		201-857-5	88-75-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	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] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	bis(2-chloroethoxy)methane		203-920-2	111-91-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	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
78	2-methyl naphthalene		202-078-3	91-57-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	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
81	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
82	dimethyl phthalate		205-011-6	131-11-3	<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							
83	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	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
85	dibenzofuran 205-071-3	132-64-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	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
87	diethyl phthalate 201-550-6	84-66-2			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	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
90	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
92	4-bromophenylphenylether 202-952-4	101-55-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
93	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
94	carbazole 201-696-0	86-74-8			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
95	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	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
97	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
98	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
99	cumene; [1] propylbenzene [2] 601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
100	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
101	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
102	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
103	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
Total:								0.0629 %		

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
ND	Not detected

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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0628%)

Classification of sample: TP103-2.40--13/02/2023


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

Sample details

Sample name:	LoW Code:
TP103-2.40--13/02/2023	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)
2.40 m	
Moisture content:	
23.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 23.7% 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	TPH (C6 to C40) petroleum group				<52.4 mg/kg		<52.4 mg/kg	<0.00524 %		<LOD
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	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]							
Total:								0.00525 %		

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
ND	Not detected

Classification of sample: TP104-1.50--13/02/2023


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

Sample details

Sample name:	LoW Code:
TP104-1.50--13/02/2023	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)
23.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 23.2% 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	TPH (C6 to C40) petroleum group				84.5 mg/kg		64.896 mg/kg	0.00649 %	✓	
			TPH							
2	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							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	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]							
Total:								0.00649 %		

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
ND	Not detected

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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00649%)

Classification of sample: TP105-0.10--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP105-0.10--13/02/2023	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)
12.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.7% 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 }				7.1 mg/kg	1.32	8.184 mg/kg	0.000818 %	✓	
	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	2.53 mg/kg	0.000253 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.4 mg/kg	1.462	28.581 mg/kg	0.00286 %	✓	
		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 }				11.2 mg/kg	1.126	11.008 mg/kg	0.0011 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	33.4 mg/kg	1.56	45.481 mg/kg	0.00292 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				7.5 mg/kg	2.976	19.487 mg/kg	0.00195 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				33.3 mg/kg	1.785	51.897 mg/kg	0.00519 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				56.1 mg/kg	2.774	135.865 mg/kg	0.0136 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				45 mg/kg		39.285 mg/kg	0.00393 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	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								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	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]								
20	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										
21	pH				8.5 pH		8.5 pH	8.5 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.08 mg/kg		0.0698 mg/kg	0.00000698 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.05 mg/kg		0.0437 mg/kg	0.00000436 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.06 mg/kg		0.0524 mg/kg	0.00000524 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.03 mg/kg		0.0262 mg/kg	0.00000262 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.04 mg/kg		0.0349 mg/kg	0.00000349 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.04 mg/kg		0.0349 mg/kg	0.00000349 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.03 mg/kg		0.0262 mg/kg	0.00000262 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.03 mg/kg		0.0262 mg/kg	0.00000262 %	✓		
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				0.03 mg/kg		0.0262 mg/kg	0.00000262 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				57 mg/kg	3.211	159.799 mg/kg	0.016 %	✓		
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0503 %		

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
ND	Not detected
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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00393%)

Classification of sample: TP107-0.10--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP107-0.10--13/02/2023	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:	
13.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.9% 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 }				7.6 mg/kg	1.32	8.64 mg/kg	0.000864 %	✓	
	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	1.941 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) }				18.4 mg/kg	1.462	23.155 mg/kg	0.00232 %	✓	
		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 }				20.7 mg/kg	1.126	20.066 mg/kg	0.00201 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	432 mg/kg	1.56	580.176 mg/kg	0.0372 %	✓	
	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 }				9.5 mg/kg	2.976	24.344 mg/kg	0.00243 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				21.7 mg/kg	1.785	33.354 mg/kg	0.00334 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				153 mg/kg	2.774	365.447 mg/kg	0.0365 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				135 mg/kg		116.235 mg/kg	0.0116 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	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								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	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]								
20	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										
21	pH				8.5 pH		8.5 pH	8.5 pH			
			PH								
22	naphthalene				1.81 mg/kg		1.558 mg/kg	0.000156 %		✓	
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				2.66 mg/kg		2.29 mg/kg	0.000229 %		✓	
		201-469-6	83-32-9								
25	fluorene				1.95 mg/kg		1.679 mg/kg	0.000168 %		✓	
		201-695-5	86-73-7								
26	phenanthrene				21.5 mg/kg		18.511 mg/kg	0.00185 %		✓	
		201-581-5	85-01-8								
27	anthracene				4.32 mg/kg		3.72 mg/kg	0.000372 %		✓	
		204-371-1	120-12-7								
28	fluoranthene				24.4 mg/kg		21.008 mg/kg	0.0021 %		✓	
		205-912-4	206-44-0								
29	pyrene				20.4 mg/kg		17.564 mg/kg	0.00176 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				9.66 mg/kg		8.317 mg/kg	0.000832 %		✓	
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				10.2 mg/kg		8.782 mg/kg	0.000878 %		✓	
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				12.4 mg/kg		10.676 mg/kg	0.00107 %		✓	
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				4.29 mg/kg		3.694 mg/kg	0.000369 %		✓	
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				10.3 mg/kg		8.868 mg/kg	0.000887 %		✓	
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				7.91 mg/kg		6.811 mg/kg	0.000681 %		✓	
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				1.25 mg/kg		1.076 mg/kg	0.000108 %		✓	
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				6.51 mg/kg		5.605 mg/kg	0.000561 %		✓	
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				122 mg/kg	3.211	337.324 mg/kg	0.0337 %		✓	
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.144 %		

Key

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

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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: TP109-0.40--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP109-0.40--13/02/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.9% 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 }				11.7 mg/kg	1.32	13.764 mg/kg	0.00138 %	✓	
	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 }				1.1 mg/kg	3.22	3.156 mg/kg	0.000316 %	✓	
	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) }				29.6 mg/kg	1.462	38.546 mg/kg	0.00385 %	✓	
		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 }				36.8 mg/kg	1.126	36.917 mg/kg	0.00369 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	117 mg/kg	1.56	162.606 mg/kg	0.0104 %	✓	
	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 mg/kg	2.976	45.081 mg/kg	0.00451 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				34.2 mg/kg	1.785	54.399 mg/kg	0.00544 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				178 mg/kg	2.774	439.974 mg/kg	0.044 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				373 mg/kg		332.343 mg/kg	0.0332 %	✓	
			TPH							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		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										
16		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2										
17		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3										
18	●	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4										
19		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]										
20	🌐	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												
21	●	pH				10.9	pH		10.9	pH	10.9 pH		
			PH										
22		naphthalene				0.18	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-052-00-2	202-049-5	91-20-3										
23	●	acenaphthylene				0.08	mg/kg		0.0713	mg/kg	0.00000713 %	✓	
		205-917-1	208-96-8										
24	●	acenaphthene				0.13	mg/kg		0.116	mg/kg	0.0000116 %	✓	
		201-469-6	83-32-9										
25	●	fluorene				0.12	mg/kg		0.107	mg/kg	0.0000107 %	✓	
		201-695-5	86-73-7										
26	●	phenanthrene				0.84	mg/kg		0.748	mg/kg	0.0000748 %	✓	
		201-581-5	85-01-8										
27	●	anthracene				0.2	mg/kg		0.178	mg/kg	0.0000178 %	✓	
		204-371-1	120-12-7										
28	●	fluoranthene				1.16	mg/kg		1.034	mg/kg	0.000103 %	✓	
		205-912-4	206-44-0										
29	●	pyrene				1.04	mg/kg		0.927	mg/kg	0.0000927 %	✓	
		204-927-3	129-00-0										
30		benzo[a]anthracene				0.54	mg/kg		0.481	mg/kg	0.0000481 %	✓	
	601-033-00-9	200-280-6	56-55-3										
31		chrysene				0.55	mg/kg		0.49	mg/kg	0.000049 %	✓	
	601-048-00-0	205-923-4	218-01-9										
32		benzo[b]fluoranthene				0.67	mg/kg		0.597	mg/kg	0.0000597 %	✓	
	601-034-00-4	205-911-9	205-99-2										
33		benzo[k]fluoranthene				0.27	mg/kg		0.241	mg/kg	0.0000241 %	✓	
	601-036-00-5	205-916-6	207-08-9										
34		benzo[a]pyrene; benzo[def]chrysene				0.53	mg/kg		0.472	mg/kg	0.0000472 %	✓	
	601-032-00-3	200-028-5	50-32-8										
35	●	indeno[123-cd]pyrene				0.43	mg/kg		0.383	mg/kg	0.0000383 %	✓	
		205-893-2	193-39-5										
36		dibenz[a,h]anthracene				0.09	mg/kg		0.0802	mg/kg	0.00000802 %	✓	
	601-041-00-2	200-181-8	53-70-3										
37	●	benzo[ghi]perylene				0.37	mg/kg		0.33	mg/kg	0.000033 %	✓	
		205-883-8	191-24-2										
38		phenol				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
	604-001-00-2	203-632-7	108-95-2										
39	🌐	sulfur { sulphur dichloride }				<20	mg/kg	3.211	<64.226	mg/kg	<0.00642 %		<LOD
	016-013-00-X	234-129-0	10545-99-0										
									Total:		0.116 %		

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
ND	Not detected
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 Non-flammable material

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: TP110-0.50--13/02/2023

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

Sample details

Sample name:	LoW Code:
TP110-0.50--13/02/2023	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)
0.50 m	
Moisture content:	
17.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.6% Wet Weight Moisture Correction applied (MC)

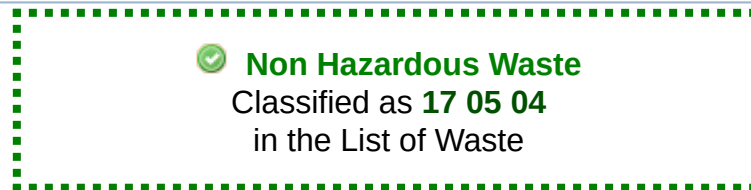
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10 mg/kg	1.32	10.879 mg/kg	0.00109 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium 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	1.327 mg/kg	0.000133 %		✓	
	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) }				35 mg/kg	1.462	42.151 mg/kg	0.00422 %		✓	
		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	8.999 mg/kg	0.0009 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	19.3 mg/kg	1.56	24.806 mg/kg	0.00159 %		✓	
	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 }				8.8 mg/kg	2.976	21.581 mg/kg	0.00216 %		✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				46.7 mg/kg	1.785	68.695 mg/kg	0.00687 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
13	zinc { zinc chromate }				56.9 mg/kg	2.774	130.068 mg/kg	0.013 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<49 mg/kg		<49 mg/kg	<0.0049 %			<LOD
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	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								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	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]								
20	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										
21	pH				8.3 pH		8.3 pH	8.3 pH			
			pH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	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								
35	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
36	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								
37	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0429 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP111-0.20--13/02/2023


Sample details

Sample name:	LoW Code:	
TP111-0.20--13/02/2023	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:		
15%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 15% 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 }				5.2 mg/kg	1.32	5.836 mg/kg	0.000584 %	✓	
	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	2.19 mg/kg	0.000219 %	✓	
	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) }				19.5 mg/kg	1.462	24.225 mg/kg	0.00242 %	✓	
		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 }				11.8 mg/kg	1.126	11.293 mg/kg	0.00113 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	82.4 mg/kg	1.56	109.249 mg/kg	0.007 %	✓	
	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 }				5.3 mg/kg	2.976	13.408 mg/kg	0.00134 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				27.4 mg/kg	1.785	41.577 mg/kg	0.00416 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				39.5 mg/kg	2.774	93.142 mg/kg	0.00931 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				71.6 mg/kg		60.86 mg/kg	0.00609 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	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								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	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]								
20	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										
21	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.03 mg/kg		0.0255 mg/kg	0.00000255 %		✓	
		201-581-5	85-01-8								
27	anthracene				0.02 mg/kg		0.017 mg/kg	0.0000017 %		✓	
		204-371-1	120-12-7								
28	fluoranthene				0.38 mg/kg		0.323 mg/kg	0.0000323 %		✓	
		205-912-4	206-44-0								
29	pyrene				0.4 mg/kg		0.34 mg/kg	0.000034 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.39 mg/kg		0.331 mg/kg	0.0000331 %		✓	
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.35 mg/kg		0.298 mg/kg	0.0000298 %		✓	
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.84 mg/kg		0.714 mg/kg	0.0000714 %		✓	
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.26 mg/kg		0.221 mg/kg	0.0000221 %		✓	
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.64 mg/kg		0.544 mg/kg	0.0000544 %		✓	
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.52 mg/kg		0.442 mg/kg	0.0000442 %		✓	
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				0.08 mg/kg		0.068 mg/kg	0.0000068 %		✓	
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.44 mg/kg		0.374 mg/kg	0.0000374 %		✓	
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
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
ND	Not detected
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 Non-flammable material

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00609%)

Classification of sample: TP112-0.10--13/02/2023

 **Hazardous Mixed Waste**
 Classified as **17 05 04**
 and **17 06 05 ***
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP112-0.10--13/02/2023	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)
29.9%	Entry:
(wet weight correction)	17 06 05 * (Construction materials containing asbestos) }

Hazard properties

HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity "waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration"

Hazard Statements hit:

STOT RE 1; H372 "Causes damage to organs [or state all organs affected, if known] through prolonged or repeated exposure [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos in identifiable pieces of suspected ACM: (conc.: 25%)

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

Hazard Statements hit:

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

Because of determinand:

asbestos in identifiable pieces of suspected ACM: (conc.: 25%)

Determinands

Moisture content: 29.9% 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 }				10.6 mg/kg	1.32	9.811 mg/kg	0.000981 %	✓		
		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 mg/kg	3.22	2.257 mg/kg	0.000226 %	✓		
		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) }				32.8 mg/kg	1.462	33.605 mg/kg	0.00336 %	✓		
			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 }				25.9 mg/kg	1.126	20.442 mg/kg	0.00204 %	✓		
		029-002-00-X	215-270-7	1317-39-1								

#	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									
8	lead { lead chromate }			1	46.7	mg/kg	1.56	51.063	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 }				11.2	mg/kg	2.976	23.367	mg/kg	0.00234 %	✓	
	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	vanadium { divanadium pentaoxide; vanadium pentoxide }				55.8	mg/kg	1.785	69.829	mg/kg	0.00698 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
13	zinc { zinc chromate }				223	mg/kg	2.774	433.663	mg/kg	0.0434 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
14	TPH (C6 to C40) petroleum group		TPH		<61.2	mg/kg		<61.2	mg/kg	<0.00612 %		<LOD
15	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									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
19	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]									
20	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											
21	pH		PH		8.3	pH		8.3	pH	8.3 pH		
22	naphthalene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	acenaphthylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8									
24	acenaphthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9									
25	fluorene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7									
26	phenanthrene				0.3	mg/kg		0.21	mg/kg	0.000021 %	✓	
		201-581-5	85-01-8									
27	anthracene				0.1	mg/kg		0.0701	mg/kg	0.0000701 %	✓	
		204-371-1	120-12-7									
28	fluoranthene				1.09	mg/kg		0.764	mg/kg	0.0000764 %	✓	
		205-912-4	206-44-0									
29	pyrene				0.88	mg/kg		0.617	mg/kg	0.0000617 %	✓	
		204-927-3	129-00-0									
30	benzo[a]anthracene				0.74	mg/kg		0.519	mg/kg	0.0000519 %	✓	
	601-033-00-9	200-280-6	56-55-3									
31	chrysene				0.67	mg/kg		0.47	mg/kg	0.000047 %	✓	
	601-048-00-0	205-923-4	218-01-9									
32	benzo[b]fluoranthene				0.86	mg/kg		0.603	mg/kg	0.0000603 %	✓	
	601-034-00-4	205-911-9	205-99-2									
33	benzo[k]fluoranthene				0.25	mg/kg		0.175	mg/kg	0.0000175 %	✓	
	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							
34	benzo[a]pyrene; benzo[def]chrysene				0.68 mg/kg		0.477 mg/kg	0.0000477 %	✓	
	601-032-00-3	200-028-5	50-32-8							
35	indeno[123-cd]pyrene				0.58 mg/kg		0.407 mg/kg	0.0000407 %	✓	
		205-893-2	193-39-5							
36	dibenz[a,h]anthracene				0.12 mg/kg		0.0841 mg/kg	0.00000841 %	✓	
	601-041-00-2	200-181-8	53-70-3							
37	benzo[ghi]perylene				0.48 mg/kg		0.336 mg/kg	0.0000336 %	✓	
		205-883-8	191-24-2							
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
39	sulfur { sulphur dichloride }				88 mg/kg	3.211	198.1 mg/kg	0.0198 %	✓	
	016-013-00-X	234-129-0	10545-99-0							
Total:								0.0906 %		

#	Determinand			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	asbestos in identifiable pieces of suspected ACM				250000 mg/kg		250000 mg/kg	25%		
			ACM_FRAG							
Total:								25%		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

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

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.

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

■ **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

■ **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

▪ **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

■ **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

■ **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

■ **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

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

beryllium {beryllium oxide}

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

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

cadmium {cadmium oxide}

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

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

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

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

Worst case species based on hazard statements/molecular weight

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species selected

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

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

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

sulfur {sulphur dichloride}

Worst case species selected

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2023.65.5540.10249 (06 Mar 2023)
HazWasteOnline Database: 2023.65.5540.10249 (06 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