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Ground Investigations Ireland  
Housing Bundle 4 & 5 - Lot 2 – Wellmount  
Road  
National Development Finance Agency  
Waste Classification Report  
April 2024

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*Ground Investigations Ireland Ltd. present the results of the fieldworks and laboratory testing in accordance with the specification and related documents provided by or on behalf of the client. The possibility of variation in the ground and/or groundwater conditions between or below exploratory locations or due to the investigation techniques employed must be taken into account when this report and the appendices inform designs or decisions where such variation may be considered relevant. Ground and/or groundwater conditions may vary due to seasonal, man-made or other activities not apparent during the fieldworks and no responsibility can be taken for such variation. The data presented and the recommendations included in this report and associated appendices are intended for the use of the client and the client's geotechnical representative only and any duty of care to others is excluded unless approved in writing.*



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## 1.0 Preamble

Ground Investigations Ireland (GII) was appointed by Malone O'Regan Consulting Engineers on behalf of the National Development Finance Agency to carry out a Waste Classification Assessment for a proposed residential development in Finglas, Dublin 11. All site investigation works were carried out under the supervision of a GII Geo-Environmental Engineer. The site investigation works were completed between November 2023 and January 2024.

## 2.0 Purpose & Scope

It is understood that as part of the proposed development there may be an excavation to accommodate foundations, services, pavements and carparking and as such the material which may be excavated and removed from site needs to be assessed in terms of waste disposal outlets. The waste classification was carried out in parallel with a wider geotechnical site investigation.

The purpose of the waste classification exercise was as follows.

- Assess the site in terms of historical use;
- Classification, in terms of waste management and final disposal outlets, of material that may require disposal following excavation during the construction phase; and
- Assessment of material against Soil Recovery Facility (SRF) criteria.

The scope of the work undertaken to facilitate the waste classification exercise included the following:

- Site walkover;
- Historical desk study;
- Excavation of four (4 No.) trial pits;
- Boring of six (6 No.) percussion boreholes;
- Collection of subsoil samples for chemical analysis;
- Environmental laboratory testing;
- Waste classification; and
- SFR suitability.

The additional scope of the geotechnical investigation included the following:

- Completion of two (2 No.) soakaway tests to determine a soil infiltration value to BRE digest 365;
- Completion of six (6 No.) slit trenches to determine existing service details; and
- Geotechnical laboratory testing.

The geotechnical site investigation is discussed in the GII Ground Investigation Report Dated March 2024.<sup>1</sup>

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<sup>1</sup> Ground Investigations Ireland, Housing Bundle 4 & 5 - Lot 2 – Wellmount Road, Ground Investigation Report, March 2024.

### 3.0 Limitations

**This report is based on the waste classification regulatory requirements at the time of writing this report and the conclusions and recommendations may not be applicable where there have been amendments to these requirements subsequent to writing the report.**

**In all cases the reader of this report shall confirm that the waste categories are acceptable to the various waste facilities to which the material may be sent. The quantification of disposal costs shall not be completed prior to confirmation with the relevant waste facilities of the waste categories. It should be noted that the environmental regulator (in this case the EPA) and the waste acceptor (in this case a landfill operator) shall decide whether a waste is hazardous or non-hazardous and or suitable for disposal at their facility.**

GII has prepared this report for the sole use of the National Development Finance Agency. No other warranty, express or implied, is made as to the professional advice included in this report or other services provided by GII.

The conclusions and recommendations contained in this report are based upon information provided by others and the assumption that all relevant information has been provided by those bodies from whom it has been requested. Information obtained from third parties has not been independently verified by GII, unless otherwise stated in this report.

This report has been prepared in line with best industry standards and within the project's budgetary and time constraints. The methodology adopted and the sources of information used by GII in providing its services are outlined in this report.

The work described was undertaken between November 2023 and January 2024, this report is based on the conditions encountered and the information available during that period. The scope of this Report and the services are accordingly factually limited by these circumstances.

Site investigation locations were selected by the consultant engineer.

GII disclaim any undertaking or obligation to advise any person of any change in any matter affecting the Report, which may come or be brought to GII's attention after the date of the Report.

The conclusions presented in this report represent GII's best professional judgement based on review of site conditions observed during any site visit and the relevant information available at the time of writing. The opinions and conclusions presented are valid only to the extent that the information provided was accurate and complete.

The investigation was focused on a broad assessment of the subsoil quality across the site. The assessment did not extend to the identification of asbestos containing materials associated with any on-site structures, ground gases or groundwater.

The waste classification exercise is reflective of and applicable to the ground conditions on site at the time of the site investigation and sampling. Alterations to the ground conditions or any further excavations carried out on site following the investigation are not reflected in this report.

## **4.0 Site Location and Layout**

The site is located at Wellmount Road, Finglas, Dublin 11 (Figure 1 Appendix 1). At the time of the assessment the site was comprised of a grass covered green area.

## **5.0 Site History**

GII reviewed the aerial photographs and historical maps maintained by the Ordnance Survey of Ireland (OSI) and the google imagery records. These included the 6-inch maps that were produced between 1829 and 1842, the 25-inch maps that were produced between 1888 and 1913 and the 6-inch Cassini Maps that were produced between the 1830's and 1930's. The site is undeveloped on all historical maps reviewed. Based on a review of the OSI and Google Imagery aerial photograph records the site has been a green area since at least the 1995.

## **6.0 Subsurface Exploration**

### **6.1. General**

During the ground investigation a programme of intrusive investigation specified by the Consulting Engineer was undertaken to determine the sub surface conditions at the proposed site. Regular sampling and in-situ testing was undertaken in the exploratory holes to facilitate the geotechnical descriptions and to enable laboratory testing to be carried out on the soil samples recovered during excavation and drilling.

The procedures used in this site investigation are in accordance with Eurocode 7 Part 2: Ground Investigation and testing (ISEN 1997 – 2:2007) and B.S. 5930:2015.

### **6.2. Trial Pits**

The trial pits were excavated using a JCB 3CX excavator at the locations shown in Figure 2. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The trial pits were sampled, logged and photographed by a Geotechnical Engineer/Engineering Geologist prior to backfilling with arisings. Notes were made of any services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the trial pit logs which are provided in Appendix 2 of this Report.

### **6.3. Percussion Boreholes**

The percussion boreholes were carried out at the locations shown in Figure 2 using a Tecopsa SPT Tec 10 percussion drilling rig. The percussion sampling consists of a 1m long steel tube with a cutting edge and an internal plastic liner which is mechanically driven into the ground utilising a 63.5kg weight falling a height of 760mm. Upon completion of the 1m sample, the tube is withdrawn, and the plastic liner removed and sealed for logging and sub sampling by an Engineering Geologist. The tube is replaced in the borehole

and a subsequent 1m sample can be recovered. Occasionally outer casing or a reduced diameter tube is utilised to enable the window sample to progress in difficult drilling conditions. Geotechnical or environmental soil samples can be recovered from each of the liners following logging.

Standard Penetration Tests were carried out in the boreholes. The results of these tests, together with the depths at which the tests were taken are shown on the accompanying borehole records. The test consists of a thick wall sampler tube, 50mm external diameter, being driven into the soil by a weight of 63.5kg and with a free drop of 760mm. For gravels and glacial till the driving shoe was replaced by a solid 60° cone. The Standard Penetration Test number referred to as the 'N' value is the number of blows required to drive the tube 300mm, after an initial penetration of 150mm. The number gives a guide to the consistency of the soil and can also be used to estimate the relative strength/density at the depth of the test and also to estimate the bearing capacity and compressibility of the soil. The percussion borehole records are provided in Appendix 3 of this Report.

#### 6.4. Surveying

The exploratory hole locations have been recorded using a KQGeo M8 GNSS System which records the coordinates and elevation of the locations to ITM as required by the project specification. The coordinates and elevations are provided on the exploratory hole logs in the appendices of this Report.

### 7.0 Ground Conditions

#### 7.1. General

The ground conditions encountered during the investigation are summarised below with reference to insitu and laboratory test results. The full details of the strata encountered during the ground investigation are provided in the exploratory hole logs included in the appendices of this report. For full geotechnical descriptions of the ground conditions refer to the geotechnical site investigation report referenced in Section 2.0.

The sequence of strata encountered was consistent across the site and generally comprised;

- Topsoil
- Made Ground
- Cohesive Deposits
- Granular Deposits

**TOPSOIL:** Topsoil was encountered in all the exploratory holes and was present to a maximum depth of 0.30m BGL.

**MADE GROUND:** Made Ground deposits were encountered beneath the Topsoil and were present to depths of between 0.40m to 1.10m BGL. These deposits were described generally as *dark brown* or *brown*

*slightly sandy slightly gravelly CLAY with occasional cobbles and contained occasional fragments of concrete, plastic, ceramic, glass, metal, concrete and wood.*

**COHESIVE DEPOSITS:** Cohesive deposits were encountered beneath the Topsoil or Made Ground and were described typically as *brown to grey brown slightly sandy slightly gravelly CLAY with occasional cobbles* overlying a *dark grey to grey slightly sandy gravelly CLAY with occasional cobbles and boulders*. The secondary sand and gravel constituents varied across the site and with depth, with granular lenses occasionally present in the cohesive till matrix. These deposits had some, occasional or frequent cobble and boulder content, where noted on the exploratory hole logs.

**GRANULAR DEPOSITS:** Granular deposits were encountered in BH01 and TP02 between and below the cohesive deposits and were typically described as *brown clayey sandy angular to subangular fine to coarse GRAVEL with subangular cobbles* or *grey to dark grey slightly clayey very sandy sub angular to rounded fine to coarse GRAVEL with some sub rounded cobbles*.

It should be noted that many of the trial pits where granular deposits or groundwater were encountered, experienced instability. This was described either as side wall spalling or as side wall collapse in the remarks section at the base of the trial pit logs.

## 8.0 Laboratory Analysis

### 8.1. Analysis Suite

In order to assess materials, which may be excavated and removed from site, in terms of waste classification, a selection of samples collected were analysed for a suite of parameters which allows for the assessment of the soils in terms of total pollutant content for classification of materials as *hazardous* or *non-hazardous* (RILTA Suite). The suite also allows for the assessment of the soils in terms of suitability for placement at various categories of landfill. The parameter list for the RILTA suite includes analysis of the solid samples for arsenic, barium, cadmium, chromium, copper, cyanide, lead, nickel, mercury, zinc, speciated aliphatic and aromatic petroleum hydrocarbons, pH, sulphate, sulphide, moisture content, soil organic matter and an asbestos screen.

The RILTA suite also includes those parameters specified in the EU Council Decision establishing criteria for the acceptance of waste at Landfills (Council Decision 2003/33/EC), which for the solid samples are pH, total organic carbon (TOC), speciated aliphatic and aromatic petroleum hydrocarbons, BTEX, phenol, polychlorinated biphenyls (PCB) and PAH.

In line with the requirement of Council Decision 2003/33/EC a leachate was generated from the solid samples which was in turn analysed for antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, chloride, fluoride, soluble sulphate, sulphide, phenols, dissolved organic carbon (DOC) and total dissolved solids (TDS).

The laboratory testing was completed by Element Materials Technology (EMT) in the UK; EMT is a UKAS accredited laboratory. The full laboratory reports are included in Appendix 4.

## 8.2. Asbestos

Asbestos fibres were not detected in the samples. The laboratory did not identify asbestos containing materials (ACMs) in the samples.

## 9.0 Waste Classification

GII understands that any materials which may be excavated and removed from site would meet the definition of waste under the Waste Framework Directive. Due to the varying levels of anthropogenic materials encountered in the made ground there are potentially two sets of List of Waste (LoW)<sup>2</sup> codes with “mirror” entries which may be applied to excavated materials to be removed from site.

1. 17-05-03\* (soil and stone containing dangerous substances, classified as hazardous) or 17-05-04 (soil and stone other than those mentioned in 17-05-03, not hazardous); or
2. 17-09-03\* (other construction and demolition wastes (including mixed wastes) containing hazardous substances) or 17-09-04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03).

Where waste is a mirror entry in the LoW, it can be classified via a process of analysis against standard criteria set out in the Waste Framework Directive. The assessment process is described in detail in guidance published by the Irish (EPA Waste Classification, List of Waste & Determining if Waste is Hazardous or Non-Hazardous, June 2015) and UK regulatory authorities (Guidance on the Classification and Assessment of Waste: Technical Guidance WM3, 2015). The assessment involves comparison of the concentration of various parameters against defined threshold values.

The specific LoW code which should be applied to the material at each sample location is summarised in Table 2 below. These codes are only applicable where the material is being removed from a site as a waste.

GII use HazWasteOnline™, a web-based commercial waste classification software tool which assists in the classification of potentially hazardous materials. This tool was used to determine whether the materials sampled are classified as hazardous or non-hazardous. The use of the online tool is accepted by the EPA (EPA 2014).

The conclusions presented in the report are based on GII's professional opinion. **It should be noted that the environmental regulator (in this case the EPA) and the waste acceptor (in this case a landfill operator) shall decide whether a waste is hazardous or non-hazardous and suitable for disposal at their facility.**

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<sup>2</sup> Formerly European Waste Catalogue Codes (EWC Codes)

### 9.1. HazWasteOnLine™ Results

In total, sixteen (16 No.) samples were assessed using the HazWasteOnLine™ Tool. All samples were classified as being non-hazardous. The complete HazWasteOnLine™ report for all samples is included in Appendix 5. The specific LoW code which should be applied to the material at each SI location is summarised in Table 2 below. The assigning of the LoW code is based on observations recorded in the trial pits and boreholes, an estimation of the % of anthropogenic material present and the results of the HazWasteOnline™ output. The final LoW codes applied at the time of disposal may vary due to variations in % of anthropogenic material observed in the excavation phase. Where there is in excess of 2%<sup>3</sup> anthropogenic material observed the LoW code 17 09 04 may be applied.

### 9.2. Landfill Waste Acceptance Criteria

Waste Acceptance Criteria (WAC) have been agreed by the EU (Council Decision 2003/33/EC) and are only applicable to material if it is to be disposed of as a waste at a landfill facility. Each individual member state and licensed operators of landfills may apply more stringent WAC. WAC limits and the associated laboratory analysis are not suitable for use in the determination of whether a waste is hazardous or non-hazardous. The data have been compared to the WAC limits set out in Council Decision 2003/33/EC as well as the specific increased WAC which the EPA have applied to a selection of EPA licenced landfills. These landfills have higher limits for a range of parameters while still operating under an inert landfill licence. The WAC data considered in combination with the waste classification outlined in Section 9.1 allows the most suitable waste category to be applied to the material tested. The potentially applicable waste categories are summarised in Table 1. A summary of the WAC data is presented in Appendix 6. The waste category assigned to each sample is summarised in Table 2.

**Table 1 Potential Waste Categories for Disposal/Recovery**

Waste Category	Classification Criteria
Category A Unlined Facilities	Soil and Stone only which are free from <sup>4</sup> anthropogenic materials such as concrete, brick, timber. Soil must be free from “contamination” e.g. PAHs, Hydrocarbons <sup>5</sup> .
Category B1 Inert Landfill	Reported concentrations within inert waste limits, which are set out by the adopted EU Council Decision 2003/33/EC establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of Directive 1999/31/EC (2002). Results also found to be non-hazardous using the HWOL <sup>6</sup> application.
Category B2 Inert Landfill	Reported concentrations greater than Category B1 criteria but less than IMS Hollywood Landfill acceptance criteria, as set out in their Waste Licence W0129-02.

<sup>3</sup> EPA (2020) - Guidance on Waste Acceptance Criteria at Authorised Soil Recovery Facilities.

<sup>4</sup> Free from equates to less than 2%.

<sup>5</sup> Total BTEX 0.05mg/kg, Mineral Oil 50mg/kg, Total PAHs 1mg/kg, Total PCBs 0.05mg/kg and Asbestos No Asbestos Detected – EPA Guidance on Waste Acceptance Criteria at Authorised Soil Recovery Facilities, 2020.

<sup>6</sup> HazWasteOnLine™ Tool.

Waste Category	Classification Criteria
	Results also found to be non-hazardous using the HWOL application.
Category C Non-Haz Landfill	Reported concentrations greater than Category B2 criteria but within non-haz landfill waste acceptance limits set out by the adopted EU Council Decision 2003/33/EC establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of Directive 1999/31/EC (2002). Results also found to be non-hazardous using the HWOL application.
Category C 1 Non-Haz Landfill	As Category C but containing < 0.001% w/w asbestos fibres.
Category C 2 Non-Haz Landfill	As Category C but containing >0.001% and <0.01% w/w asbestos fibres
Category C 3 Non-Haz Landfill	As Category C but containing >0.01% and <0.1% w/w asbestos fibres.
Category D Hazardous Treatment	Results found to be hazardous using HWOL Application.
Category D 1 Hazardous Disposal	Results found to be hazardous due to the presence of asbestos (>0.1%).

### 9.3. Final Waste Categorisation

All samples were assessed in terms of waste classification using the HazWasteOnLine™ tool and also the WAC set out in Council Decision 2003/33/EC and the EPA's increased WAC to give a final waste categorisation to determine the most appropriate disposal route for any waste generated. The final and most applicable waste category for each sample is summarised in Table 2.

### 10.0 Soil Recovery Facility Suitability

GII assessed the suitability of the material sampled in line with the EPA 2020 Guidance on waste acceptance criteria at authorised soil recovery facilities<sup>7</sup>.

The guidance outlines a summary of Maximum Concentrations and/or Trigger Levels in Soil & Stone for SRFs based on the location of the facility or site in the country (Geochemical Domains).

The subject site is located within Domain 2 and as such the samples collected have been assessed against the SRF criteria for Domain 2. The waste categories assigned to each sample are based on the material being disposed of within Domain 2.

**In the event that the material is disposed of outside of Domain 2 refer to Table 3 which assesses the suitability of each individual sample to be disposed of in each Domain.**

<sup>7</sup> Guidance on waste acceptance criteria at authorised soil recovery facilities 2020 - ENVIRONMENTAL PROTECTION AGENCY



In terms of their chemical properties several of the samples of the made ground material encountered across the site may be acceptable at a Domain 2 SRF following excavation and a visual assessment of the percentage of anthropogenic material contained within it. If there is less than 2% anthropogenic material present then it may be accepted by an SRF. This assessment is at the discretion of the SRF.

**Table 2 Individual Sample Waste Category**

Sample ID	Sample Depth (m)	Material Type	Sample Date	LoW Code	Waste Category
WSBH01	0.00-1.00	Made Ground <2% Anthropogenic Material	20/12/2023	17 05 04	Category A - Domain 2
WSBH01	1.00-2.00	Clay	20/12/2023	17 05 04	Category A - Domain 2
WSBH01	2.00-2.50	Clay	20/12/2023	17 05 04	Category B2 - All Domains
WSBH02	0.00-1.00	Made Ground <2% Anthropogenic Material	20/12/2023	17 05 04	Category A - Domain 2
WSBH02	1.00-2.00	Clay	20/12/2023	17 05 04	Category A - Domain 2
WSBH02	2.00-2.60	Clay	20/12/2023	17 05 04	Category B1 - All Domains
WSBH03	0.00-1.00	Clay	20/12/2023	17 05 04	Category A - Domain 2
WSBH03	1.00-2.00	Clay	20/12/2023	17 05 04	Category A - Domain 2
WSBH03	2.00-3.00	Clay	20/12/2023	17 05 04	Category C - All Domains
WSBH04	0.00-1.00	Made Ground <2% Anthropogenic Material	20/12/2023	17 05 04	Category A - Domain 2
WSBH04	1.00-2.00	Clay	20/12/2023	17 05 04	Category A - Domain 2
WSBH04	2.00-3.00	Clay	20/12/2023	17 05 04	Category B1 - All Domains
BH05	0.20-1.10	Made Ground <2% Anthropogenic Material	21/12/2023	17 05 04	Category A - Domain 2
BH05	1.10-2.00	Clay	21/12/2023	17 05 04	Category A - Domain 2
BH06	0.20-0.80	Made Ground <2% Anthropogenic Material	21/12/2023	17 05 04	Category A - Domain 2
BH06	1.00-2.00	Clay	21/12/2023	17 05 04	Category A - Domain 2

**Table 3 Geochemical Domain Suitability**

ID	Depth	Material	Domain 1	Domain 2	Domain 3	Domain 4	Domain 5	Domain 6	Domain 7
WSBH01	0.00-1.00	Made Ground <2% Anthropogenic Material	✓	✓	✓	✗	✓	✓	✗
WSBH01	1.00-2.00	Clay	✓	✓	✓	✗	✓	✗	✗
WSBH01	2.00-2.50	Clay	✗	✗	✗	✗	✗	✗	✗
WSBH02	0.00-1.00	Made Ground <2% Anthropogenic Material	✗	✓	✗	✗	✗	✗	✗
WSBH02	1.00-2.00	Clay	✓	✓	✓	✗	✓	✗	✗
WSBH02	2.00-2.60	Clay	✗	✗	✗	✗	✗	✗	✗
WSBH03	0.00-1.00	Clay	✓	✓	✓	✗	✓	✓	✗
WSBH03	1.00-2.00	Clay	✓	✓	✓	✗	✓	✓	✗
WSBH03	2.00-3.00	Clay	✗	✗	✗	✗	✗	✗	✗
WSBH04	0.00-1.00	Made Ground <2% Anthropogenic Material	✓	✓	✓	✗	✓	✗	✗
WSBH04	1.00-2.00	Clay	✓	✓	✓	✗	✓	✓	✗
WSBH04	2.00-3.00	Clay	✗	✗	✗	✗	✗	✗	✗
BH05	0.20-1.10	Made Ground <2% Anthropogenic Material	✗	✓	✗	✗	✗	✗	✗
BH05	1.10-2.00	Clay	✓	✓	✓	✗	✓	✓	✗
BH06	0.20-0.80	Made Ground <2% Anthropogenic Material	✗	✓	✓	✗	✗	✗	✗
BH06	1.00-2.00	Clay	✗	✓	✓	✗	✗	✗	✗

✗ - not suitable for disposal in this domain

✓ - suitable for disposal in this domain

## 11.0 Conclusions & Recommendations

The conclusions and recommendations given and opinions expressed in this report are based on the findings of the site investigation works and laboratory testing undertaken. Where any opinion is expressed on the classification of material between site investigation locations, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for conditions which have not been revealed by the findings at the site investigation locations.

### 11.1. Conclusions

#### 11.1.1. Waste Classification

Based on the results of the HazWasteOnLine™ tool the material sampled across the site if being considered a waste can be classified as non-hazardous.

#### 11.1.2. Asbestos

Asbestos was not detected in the soil samples.

#### 11.1.3. Waste Categories

The most applicable waste categories for each of the samples if being considered a waste to be disposed of within Domain 2 have been presented in Table 2.

Where material is to be disposed of outside of the Geochemical Domain within which the site is located refer to Table 3 within this report.

### 11.2. Recommendations

#### 11.2.1. Waste Transfer

In the event that material is excavated for removal from site, any firm engaged to transport waste material from site and the operator of any waste facility that will accept subsoils excavated from this site should be furnished with, at a minimum, copies of the **full unabridged** laboratory reports and HazWasteOnLine™ report for all samples presented in this report.

The non-hazardous material across the site if excavated should be removed from site to an appropriate facility under either the LoW codes 17 05 04 or 17 09 04. Where during excavation there is noted to be in excess of 2% anthropogenic material the appropriate LoW code which should be applied is 17 09 04.

## 12.0 References

Environment Agency (2013). *Waste Sampling and Testing for Disposal to Landfill*.

Environment Agency (2015). *Technical Guidance WM3 - Guidance on the classification and assessment of waste (1st edition 2015) Technical Guidance WM3*.

Environmental Protection Agency (EPA) (2014). Letter to Licences *Re: Waste Classification & Haz Waste On-Line™*.

Environmental Protection Agency (EPA) (2015). *Waste Classification List of Waste & Determining if Waste is Hazardous or Non-hazardous*.

Environmental Protection Agency (EPA) (2020). *Guidance on Waste Acceptance Criteria at Authorised Soil Recovery Facilities*.

Association of Geotechnical and Geoenvironmental Specialists (2019). *Waste Classification for Soils – A Practitioners Guide*.

# APPENDIX 1 - Figures









712280E

712320E

712360E

712400E

712440E

738400N

738360N

738320N

738280N

712280E




712320E

712360E

712400E

712440E



-  Indicative Site Boundary
-  Borehole
-  Trial Pit

Client:



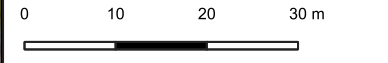
Project Code:  
13061-08-23

Project Title:  
Finglas Welmount NDFA

Drawing Title:  
Figure 2 Borehole and Trial Pit Locations



**GROUND INVESTIGATIONS IRELAND**  
Geotechnical & Environmental  
Ground Investigations Ireland Ltd.  
Catherinstown House,  
Hazelhatch Road,  
Newcastle, Co. Dublin  
www.gii.ie 01-6015175/5176



Drawn By: BS	Date: 18-04-2024
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# APPENDIX 2 – Trial Pit Records







<b>Machine</b> : JCB 3CX <b>Method</b> : Trial Pit		<b>Dimensions</b> 1.20m x 0.30m x 1.50m	<b>Ground Level (mOD)</b> 52.46	<b>Client</b> Dublin City Council	<b>Job Number</b> 13061-08-23(1)
		<b>Location</b> 712367.6 E 738301 N	<b>Dates</b> 18/12/2023	<b>Engineer</b> National Development Finance Agency	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				52.26	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
				51.66	(0.60) 0.80	MADE GROUND (reworked): Brown slightly sandy slightly gravelly Clay with occasional subrounded cobbles and occasional plastic fragments. Gravel is subangular to subrounded fine to coarse.		
				50.96	(0.70) 1.50	Brown slightly sandy slightly gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to subrounded fine to coarse.		
						Complete at 1.50m		

<b>Plan</b> .	<b>Remarks</b>  No groundwater encountered. Trial Pit sidewalls stable. Trial Pit complete at 1.50m BGL. Soakaway test carried out in trial pit upon completion. Trial pit backfilled upon completion of soakaway test.		
	<table border="1"> <tr> <td><b>Scale (approx)</b> 1:25</td> <td><b>Logged By</b> CE</td> <td><b>Figure No.</b> 13061-08-23(1).SA01</td> </tr> </table>	<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE
<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE	<b>Figure No.</b> 13061-08-23(1).SA01	



<b>Machine :</b> JCB 3CX <b>Method :</b> Trial Pit	<b>Dimensions</b> 1.30m x 0.30m x 1.50m	<b>Ground Level (mOD)</b> 53.41	<b>Client</b> Dublin City Council	<b>Job Number</b> 13061-08-23(1)
	<b>Location</b> 712405.9 E 738321.4 N	<b>Dates</b> 18/12/2023	<b>Engineer</b> National Development Finance Agency	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				53.21	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
				52.61	(0.60) 0.80	MADE GROUND (reworked): Brown slightly sandy slightly gravelly Clay with occasional subrounded cobbles and occasional plastic and glass fragments. Gravel is subangular to subrounded fine to coarse.		
				51.91	(0.70) 1.50	Brown slightly sandy gravelly CLAY with occasional subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse.		
						Complete at 1.50m		

<b>Plan</b> .	<b>Remarks</b> No groundwater encountered. Trial Pit sidewalls stable. Trial Pit complete at 1.50m BGL. Soakaway test carried out in trial pit upon completion. Trial pit backfilled upon completion of soakaway test.		
	<table border="1"> <tr> <td><b>Scale (approx)</b> 1:25</td> <td><b>Logged By</b> CE</td> <td><b>Figure No.</b> 13061-08-23(1).SA02</td> </tr> </table>	<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE
<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE	<b>Figure No.</b> 13061-08-23(1).SA02	



Machine : JCB 3CX Method : Trial Pit	Dimensions 2.70m x 0.60m x 3.0m	Ground Level (mOD) 54.99	Client Dublin City Council	Job Number 13061-08-23(1)
	Location 712367.3 E 738377.9 N	Dates 21/11/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50 0.50	B1 T1			54.79	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
					(0.50)	Brown slightly sandy slightly gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm)		
1.00 1.00	B2 T2			54.29	0.70	Brown to greyish brown slightly sandy gravelly CLAY with some subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm)		
					(1.00)			
2.00	B3		moderate to fast(1) at 1.90m.	53.29	1.70	Brown to greyish brown slightly sandy gravelly CLAY with some subrounded cobbles. Gravel is subangular to rounded fine to coarse. (wet from 1.90m BGL)		∇1
					(0.50)			
				52.79	2.20	Dark grey to black slightly sandy gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to rounded fine to coarse. (firm to stiff to stiff)		
					(0.80)			
3.00	B4			51.99	3.00	Complete at 3.00m		

<b>Plan</b> .	<b>Remarks</b> Groundwater encountered at 1.90m BGL. Trial Pit sidewalls collapsing from 1.30m and 1.80m BGL. Trial Pit complete at 3.0m BGL. Trial pit backfilled upon completion.		
	<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE	<b>Figure No.</b> 13061-08-23(1).TP01



Machine : JCB 3CX Method : Trial Pit		Dimensions 3.20m x 0.60m x 3.30m	Ground Level (mOD) 55.02	Client Dublin City Council	Job Number 13061-08-23(1)
		Location 712438.8 E 738365.1 N	Dates 17/11/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50 0.50	B1 T1			54.82	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
1.00 1.00	B2 T2			54.22	(0.60) 0.80	Brown slightly sandy slightly gravelly CLAY with occasional subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm)		
2.00	B3				(1.40)	Brown to greyish brown slightly sandy gravelly CLAY with some subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm to stiff)		
3.00	B4		moderate to fast(1) at 2.30m.	52.82	2.20 (0.40)	Dark grey slightly sandy gravelly CLAY with some subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm to stiff)		∇1
				52.42	2.60 (0.70)	Grey to dark grey slightly clayey very sandy subangular to rounded fine to coarse GRAVEL with some subrounded cobbles. (wet)		
				51.72	3.30	OBSTRUCTION: Groundwater ingress and sidewall instability. Complete at 3.30m		

<b>Plan</b> .	<b>Remarks</b> Groundwater encountered at 2.30m BGL. Trial Pit sidewalls collapsing from 2.60m BGL. Trial Pit complete at 3.30m BGL. Obstructed due to groundwater ingress and sidewall collapse. Trial pit backfilled upon completion.		
	<b>Scale (approx)</b> 1:25	<b>Logged By</b> CE	<b>Figure No.</b> 13061-08-23(1).TP02



Machine : JCB 3CX Method : Trial Pit	Dimensions 3.30m x 0.60m x 3.10m	Ground Level (mOD) 53.21	Client Dublin City Council	Job Number 13061-08-23(1)
	Location 712340.9 E 738326.3 N	Dates 21/11/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.50	B1 T1			52.91	(0.30)	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.			
0.50					0.30	Brown to dark brown slightly sandy slightly gravelly CLAY with occasional subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (soft to firm)			
1.00	B2			52.21	1.00	Brown slightly sandy slightly gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm)			
2.00	B3			51.11	(1.10)				
						2.10	Brown slightly sandy gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to rounded fine to coarse. (firm to stiff)		
						(0.60)			
3.00	B4			50.51	2.70	Dark grey to black slightly sandy gravelly CLAY with some subrounded cobbles. Gravel is subangular to rounded fine to coarse. (stiff)			
					50.11	3.10	Complete at 3.10m		

<b>Plan</b> .	<b>Remarks</b>  No groundwater encountered. Trial Pit sidewalls stable. Trial Pit complete at 3.10m BGL. Trial pit backfilled upon completion.					
	<table border="1"> <tr> <td>Scale (approx)</td> <td>Logged By</td> <td>Figure No.</td> </tr> <tr> <td>1:25</td> <td>CE</td> <td>13061-08-23(1).TP03</td> </tr> </table>	Scale (approx)	Logged By	Figure No.	1:25	CE
Scale (approx)	Logged By	Figure No.				
1:25	CE	13061-08-23(1).TP03				



Machine : JCB 3CX Method : Trial Pit	Dimensions 3.20m x 0.60m x 2.80m	Ground Level (mOD) 53.34	Client Dublin City Council	Job Number 13061-08-23(1)
	Location 712370.3 E 738327.4 N	Dates 17/11/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50 0.50	B1 T1			53.04	0.30	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
1.00 1.00	B2 T2			52.14	1.20	Brown slightly sandy slightly gravelly CLAY with occasional subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm)		
2.00	B3			51.04	2.30	Brown to greyish brown slightly sandy gravelly CLAY with some subangular to subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (firm to stiff)		
				50.54	2.80	Dark grey slightly sandy gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to subrounded fine to coarse. (stiff)		
						Complete at 2.80m		

<b>Plan</b> .	<b>Remarks</b>  No groundwater encountered. Trial Pit sidewalls stable. Trial Pit complete at 2.80m BGL. Trial pit backfilled upon completion.					
	<table border="1"> <tr> <td>Scale (approx)</td> <td>Logged By</td> <td>Figure No.</td> </tr> <tr> <td>1:25</td> <td>CE</td> <td>13061-08-23(1).TP04</td> </tr> </table>	Scale (approx)	Logged By	Figure No.	1:25	CE
Scale (approx)	Logged By	Figure No.				
1:25	CE	13061-08-23(1).TP04				



**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**

**TP01**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**

**TP02**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs

TP03





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**

**TP04**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**

**SA01**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**

**SA02**





**Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Trial Pit Photographs**





# APPENDIX 3 – Percussion Borehole Records





Machine : Tecopsa Tec 10.2		Dimensions 87mm to 2.50m	Ground Level (mOD) 54.94	Client Dublin City Council	Job Number 13061-08-23(1)
Method : Drive-in Windowless Sampler		Location 712313.5 E 738382.7 N	Dates 18/12/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT(C) N=20		3,5/5,6,5,4	54.74	0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
					(0.50)	MADE GROUND: Brown slightly sandy slightly gravelly Clay with occasional angular to subrounded cobbles with fragments of brick, wood, concrete and glass		
2.00-2.45	SPT(C) N=34		2,3/5,8,8,13	54.24	0.70	Firm to stiff brownish grey slightly sandy very gravelly CLAY with occasional angular to subrounded cobbles. Sand is fine to coarse Gravel is angular to subrounded fine to coarse.		
					(0.50)			
2.50-2.65	SPT(C) 50/0		25,25/50	53.74	1.20	Medium dense brown clayey sandy angular to subrounded fine to coarse GRAVEL with occasional angular to subrounded cobbles		
					(0.30)			
				53.44	1.50	Stiff greyish brown silty sandy slightly gravelly CLAY with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					(0.60)			
				52.84	2.10	Very stiff dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
				52.44	2.50	REFUSAL: Obstruction encountered. Complete at 2.50m		

<b>Remarks</b> Percussion Borehole carried out to 2.50m BGL. Refusal on obstruction. Recovery: 0.00m to 1.00m BGL = 100% Recovery: 1.00m to 2.00m BGL = 80% Recovery: 2.00m to 2.50m BGL = 80% Borehole backfilled upon completion.	Scale (approx) 1:25	Logged By CE
	Figure No. 13061-08-23(1).BH01	



Machine : Tecopsa Tec 10.2 Method : Drive-in Windowless Sampler	Dimensions 87mm to 2.60m	Ground Level (mOD) 54.47	Client Dublin City Council	Job Number 13061-08-23(1)
	Location 712315.3 E 738366.3 N	Dates 18/12/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT(C) N=16		2,3/3,4,4,5		54.27 (0.20)	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
					53.77 (0.50)	MADE GROUND: Brown slightly sandy slightly gravelly CLAY with rare subangular to subrounded cobbles with fragments of glass, plastic, brick, can and concrete		
2.00-2.45	SPT(C) N=22		1,2/2,3,4,13		53.77 (0.70)	Firm to stiff greyish brown slightly sandy slightly gravelly CLAY with rare subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					52.57 (1.20)			
2.60-2.75	SPT(C) 50/0		25,25/50		52.27 (1.90)	Stiff light brown sandy slightly gravelly CLAY with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					51.87 (2.60)	Very stiff dark grey slightly sandy gravelly CLAY with rare subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					51.87 (2.60)	REFUSAL: Obstruction encountered. Complete at 2.60m		

<b>Remarks</b> Percussion Borehole carried out to 2.60m BGL. Refusal on obstruction. Recovery: 0.00m to 1.00m BGL = 100% Recovery: 1.00m to 2.00m BGL = 90% Recovery: 2.00m to 2.60m BGL = 85% Borehole backfilled upon completion.	Scale (approx)	Logged By
	1:25	CE
	<b>Figure No.</b> 13061-08-23(1).BH02	



<b>Machine</b> : Tecopsa Tec 10.2	<b>Dimensions</b> 87mm to 3.00m	<b>Ground Level (mOD)</b> 54.22	<b>Client</b> Dublin City Council	<b>Job Number</b> 13061-08-23(1)
<b>Method</b> : Drive-in Windowless Sampler	<b>Location</b> 712334.3 E 738359.4 N	<b>Dates</b> 18/12/2023	<b>Engineer</b> National Development Finance Agency	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT(C) N=13		2,2/3,3,4,3	54.02	0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
					0.30	MADE GROUND: Brown slightly sandy slightly gravelly Clay with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
2.00-2.45	SPT(C) N=50		4,7/12,14,16,8	53.72	0.50	Firm to stiff greyish brown slightly sandy gravelly CLAY with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					(1.50)			
3.00-3.15	SPT(C) 50/0		25,25/50	52.22	2.00	Very stiff dark grey slightly sandy gravelly CLAY with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					(1.00)			
				51.22	3.00	REFUSAL: Obstruction encountered. Complete at 3.00m		

<b>Remarks</b> Percussion Borehole carried out to 3.0m BGL. Refusal on obstruction. Recovery: 0.00m to 1.00m BGL = 100% Recovery: 1.00m to 2.00m BGL = 100% Recovery: 2.00m to 3.00m BGL = 90% Borehole backfilled upon completion.	<b>Scale (approx)</b>	<b>Logged By</b>
	1:25	CE
	<b>Figure No.</b> 13061-08-23(1).BH03	



Machine : Premier 110		Dimensions 87mm to 2.60m		Ground Level (mOD) 53.37		Client Dublin City Council		Job Number 13061-08-23(1)	
Method : Drive-in Windowless Sampler		Location 712327.3 E 738335.3 N		Dates 18/12/2023		Engineer National Development Finance Agency		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT(C) N=9		2,3/2,2,2,3	53.17	0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
					0.20	MADE GROUND: Brown slightly sandy slightly gravelly CLAY with fragments of glass, metal and plastic		
2.00-2.45	SPT(C) N=32		4,5/6,7,8,11	51.37	0.40	Firm to stiff light brownish grey sandy gravelly CLAY with occasional subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					(1.60)			
2.60-2.75	SPT(C) 50/0		25,25/50	50.77	2.00	Very stiff dark grey sandy gravelly CLAY with rare subangular to subrounded cobbles. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		
					(0.60)			
					2.60	REFUSAL: Obstruction encountered. Complete at 2.60m		

<b>Remarks</b> Percussion Borehole carried out to 2.60m BGL. Refusal on obstruction. Recovery: 0.00m to 1.00m BGL = 100% Recovery: 1.00m to 2.00m BGL = 100% Recovery: 2.00m to 2.60m BGL = 100% Borehole backfilled upon completion.	Scale (approx)	Logged By
	1:25	CE
	<b>Figure No.</b> 13061-08-23(1).BH04	



Machine : Premier 110 Method : Drive-in Windowless Sampler	Dimensions 87mm to 2.80m	Ground Level (mOD) 52.81	Client Dublin City Council	Job Number 13061-08-23(1)
	Location 712351.3 E 738313.8 N	Dates 18/12/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-1.10 0.20-1.10	D1 ES1			52.61	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
1.00-1.45 1.10-2.00 1.10-2.30	SPT(C) N=11 ES2 D2		2,3/3,3,2,3	51.71	(0.90) 1.10	MADE GROUND: Dark brown slightly sandy slightly gravelly Clay with occasional subrounded cobbles and occasional glass and ceramic fragments. Gravel is subangular to subrounded fine to coarse.		
2.00-2.45 2.30-2.80	SPT(C) N=14 D3		2,3/2,3,4,5	50.51	(1.20) 2.30	Firm light brown to brown slightly sandy slightly gravelly CLAY with occasional subangular cobbles. Gravel is subangular to subrounded fine to coarse.		
2.80-2.95	SPT(C) 50/0		25,25/50	50.01	(0.50) 2.80	Firm to stiff brown slightly sandy gravelly CLAY with occasional subrounded cobbles. Gravel is subangular to subrounded fine to coarse.		
						REFUSAL: Obstruction encountered. Complete at 2.80m		

<b>Remarks</b> Percussion Borehole carried out to 2.80m BGL. Refusal on obstruction. Recovery: 0.0m to 1.0m BGL = 75%. Recovery: 1.0m to 2.0m BGL = 100%. Recovery: 2.0m to 2.80m BGL = 100%. Borehole backfilled upon completion.	Scale (approx)	Logged By
	1:25	CE
	<b>Figure No.</b> 13061-08-23(1).BH05	





Machine : Premier 110	Dimensions 87mm to 2.00m 66mm to 3.00m	Ground Level (mOD) 52.45	Client Dublin City Council	Job Number 13061-08-23(1)
Method : Drive-in Windowless Sampler	Location 712357.5 E 738302.3 N	Dates 18/12/2023	Engineer National Development Finance Agency	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.80 0.20-0.80	D1 ES1			52.25	(0.20) 0.20	Brown slightly sandy slightly gravelly TOPSOIL with grass and rootlets.		
0.80-1.60	D2		1,2/2,2,3,3	51.65	(0.60) 0.80	MADE GROUND: Brown slightly sandy slightly gravelly Clay with occasional ceramic and glass fragments. Gravel is angular to subrounded fine to coarse.		
1.00-1.45 1.00-2.00	SPT(C) N=10 ES2				(0.80)	Firm brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse.		
1.60-3.00	D3		2,3/3,3,4,4	50.85	1.60	Firm to stiff light brown to brown slightly sandy gravelly CLAY with occasional subangular cobbles. Gravel is subangular to subrounded fine to coarse.		
2.00-2.45	SPT(C) N=14				(1.40)			
3.00-3.15	SPT(C) 50/0		25,25/50	49.45	3.00	REFUSAL: Obstruction encountered. Complete at 3.00m		

<b>Remarks</b> Percussion Borehole carried out to 3.0m BGL. Refusal on obstruction. Recovery: 0.0m to 1.0m BGL = 80%. Recovery: 1.0m to 2.0m BGL = 100%. Recovery: 2.0m to 3.0m BGL = 85%. Borehole backfilled upon completion.	Scale (approx) 1:25	Logged By CE
	Figure No. 13061-08-23(1).BH06	

# Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Slit Trench Photographs

BH01



BH02





# Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Slit Trench Photographs

BH03



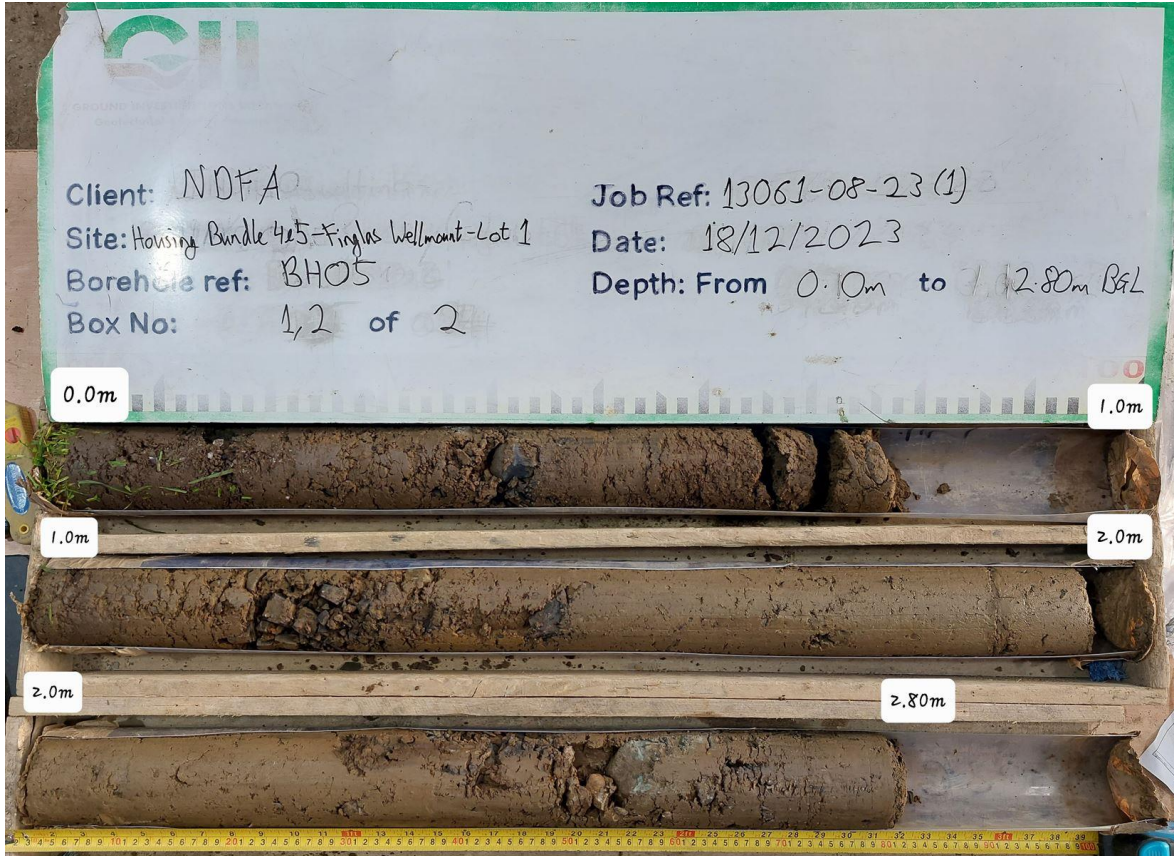
BH04



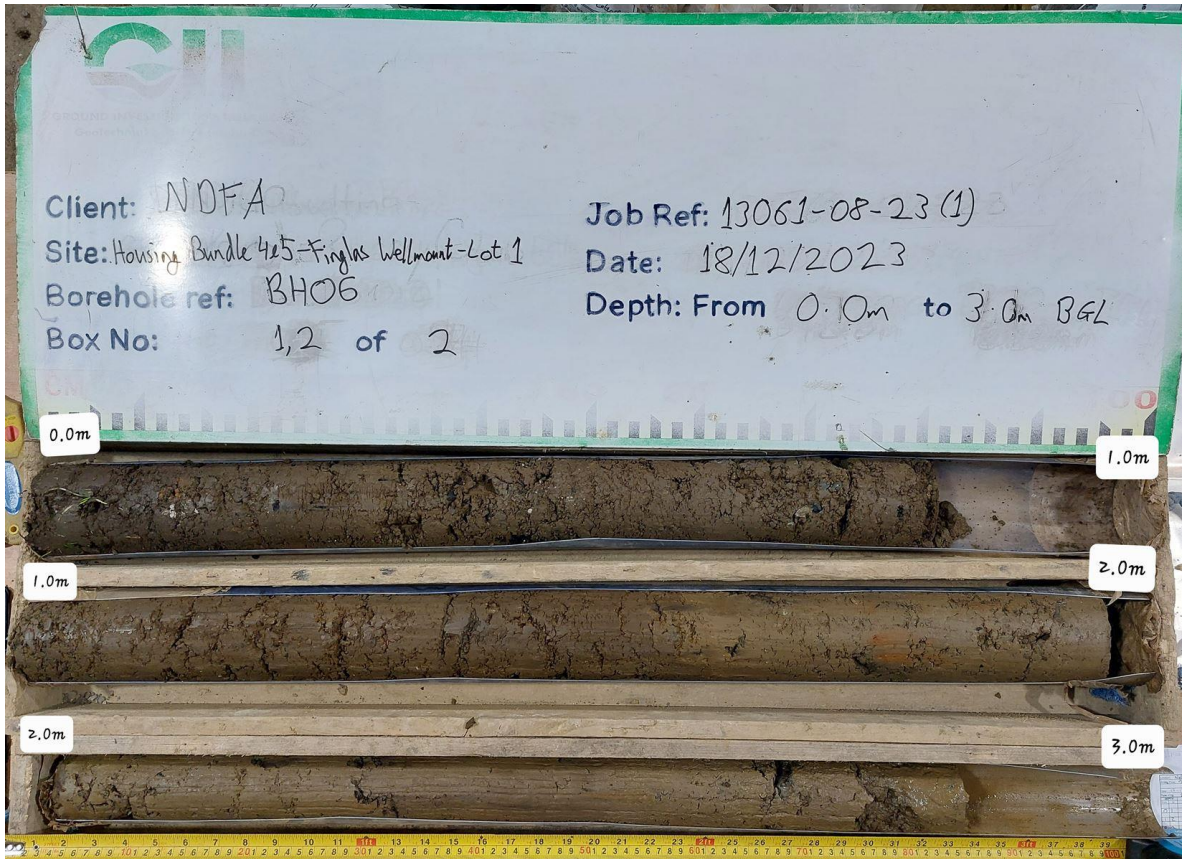


# Housing Bundle 4&5 – Finglas Wellmount – Lot 1 – Slit Trench Photographs

BH05



BH06



# APPENDIX 4 – Laboratory Testing





Ground Investigations Ireland  
Catherinstown House  
Hazelhatch Road  
Newcastle  
Co. Dublin  
Ireland  
D22 K5P8



4225



**Attention :** Diarmaid MagLochlainn  
**Date :** 12th January, 2024  
**Your reference :** 13061-08-23  
**Our reference :** Test Report 24/42 Batch 1  
**Location :** Housing Bundle Finglas Wellmount - Lot 1 (AKA)  
**Date samples received :** 3rd January, 2024  
**Status :** Final Report  
**Issue :** 202401121015

Sixteen samples were received for analysis on 3rd January, 2024 of which sixteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 75.296 kg of CO2

Scope 1&2&3 emissions - 177.944 kg of CO2

**Authorised By:**



**Liza Klebe**

Project Co-ordinator

Please include all sections of this report if it is reproduced

# Element Materials Technology

**Client Name:** Ground Investigations Ireland **Report :** Solid  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount Fir Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub)  
**Contact:** Diarmaid MagLochlainn  
**EMT Job No:** 24/42

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	LOD/LOR	Units	Method No.
	Sample ID	WSBH01	WSBH01	WSBH01	WSBH02	WSBH02	WSBH02	WSBH03	WSBH03	WSBH03			
Depth	0.00-1.00	1.00-2.00	2.00-2.50	0.00-1.00	1.00-2.00	2.00-2.60	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00	Please see attached notes for all abbreviations and acronyms		
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024			
Antimony	2	2	2	4	2	1	2	2	1	2	<1	mg/kg	TM30/PM15
Arsenic #	9.4	9.5	9.3	17.4	9.4	9.4	10.6	9.3	12.4	13.1	<0.5	mg/kg	TM30/PM15
Barium #	43	70	42	111	55	46	59	50	56	63	<1	mg/kg	TM30/PM15
Cadmium #	1.8	2.0	1.9	3.6	2.0	2.0	1.8	1.9	1.3	2.1	<0.1	mg/kg	TM30/PM15
Chromium #	13.0	15.4	14.6	34.2	17.3	15.1	14.2	12.7	13.8	20.7	<0.5	mg/kg	TM30/PM15
Copper #	25	28	25	39	27	26	29	26	26	38	<1	mg/kg	TM30/PM15
Lead #	14	17	14	33	16	14	17	15	14	22	<5	mg/kg	TM30/PM15
Mercury #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Molybdenum #	3.4	3.4	2.9	5.2	3.1	3.2	3.3	3.0	3.7	3.4	<0.1	mg/kg	TM30/PM15
Nickel #	35.7	43.9	37.2	71.6	44.0	34.9	38.8	40.8	35.7	54.5	<0.7	mg/kg	TM30/PM15
Selenium #	<1	2	5	3	<1	3	<1	<1	3	<1	<1	mg/kg	TM30/PM15
Zinc #	65	90	74	130	83	73	82	73	67	104	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
PAH 6 Total #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	mg/kg	TM4/PM8
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
Benzo(j)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM4/PM8
PAH Surrogate % Recovery	101	100	97	100	98	101	101	99	97	95	<0	%	TM4/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	<30	<30	64	<30	<30	82	<30	<30	70	<30	<30	mg/kg	TM5/PM8/PM16

# Element Materials Technology

**Client Name:** Ground Investigations Ireland **Report : Solid**  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount Fir Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub)  
**Contact:** Diarmaid MagLochlainn  
**EMT Job No:** 24/42

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	WSBH01	WSBH01	WSBH01	WSBH02	WSBH02	WSBH02	WSBH03	WSBH03	WSBH03	WSBH04			
Depth	0.00-1.00	1.00-2.00	2.00-2.50	0.00-1.00	1.00-2.00	2.00-2.60	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	LOD/LOR	Units	Method No.
TPH CWG													
<b>Aliphatics</b>													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2	<0.2	<0.2	2.2	<0.2	<0.2	4.8	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	7	<4	<4	10	<4	<4	12	<4	<4	mg/kg	TMS/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	23	19	<7	<7	26	<7	<7	22	<7	<7	mg/kg	TMS/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	38	<7	<7	44	<7	<7	31	<7	<7	mg/kg	TMS/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TMS/PM8/PM16
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	<26	<26	64	<26	<26	82	<26	<26	70	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
>C6-C10 (HS_1D_AL)	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C25 (EH_CU_1D_AL)	<10	23	39	<10	<10	41	<10	<10	45	<10	<10	mg/kg	TMS/PM8/PM16
>C25-C35 (EH_CU_1D_AL)	<10	<10	26	<10	<10	25	<10	<10	22	<10	<10	mg/kg	TMS/PM8/PM16
<b>Aromatics</b>													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TMS/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TMS/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TMS/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TMS/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TMS/PM8/PM16
Total aromatics C5-40 (EH_CU+HS_1D_AR)	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	mg/kg	TMS/PM8/PM16/PM12/PM15
Total aliphatics and aromatics(C5-40) (EH_CU+HS_1D_Total)	<52	<52	64	<52	<52	82	<52	<52	70	<52	<52	mg/kg	TMS/PM8/PM16/PM12/PM15
>EC6-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	<0.1 <sup>SV</sup>	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC25 (EH_CU_1D_AR)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	mg/kg	TMS/PM8/PM16
>EC25-EC35 (EH_CU_1D_AR)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	mg/kg	TMS/PM8/PM16
MTBE #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	ug/kg	TM36/PM12
Benzene #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	ug/kg	TM36/PM12
Toluene #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	29	<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	<5 <sup>SV</sup>	<5	<5	ug/kg	TM36/PM12
PCB 28 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 52 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 101 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 118 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 138 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 153 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
PCB 180 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	ug/kg	TM17/PM8













# Element Materials Technology

**Client Name:** Ground Investigations Ireland **Report :** CEN 10:1 1 Batch  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount Fir Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub)  
**Contact:** Diarmaid MagLochlainn  
**EMT Job No:** 24/42

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	WSBH01	WSBH01	WSBH01	WSBH02	WSBH02	WSBH02	WSBH03	WSBH03	WSBH03	WSBH04			
Depth	0.00-1.00	1.00-2.00	2.00-2.50	0.00-1.00	1.00-2.00	2.00-2.60	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	LOD/LOR	Units	Method No.
Dissolved Antimony #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Antimony (A10) #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Arsenic #	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	mg/l	TM30/PM17
Dissolved Arsenic (A10) #	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	mg/kg	TM30/PM17
Dissolved Barium #	<0.003	<0.003	0.004	<0.003	0.004	0.005	<0.003	0.003	0.026	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Barium (A10) #	<0.03	<0.03	0.04	<0.03	0.04	0.05	<0.03	<0.03	0.26	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Cadmium #	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	TM30/PM17
Dissolved Cadmium (A10) #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	TM30/PM17
Dissolved Chromium #	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	mg/l	TM30/PM17
Dissolved Chromium (A10) #	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	mg/kg	TM30/PM17
Dissolved Copper #	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/l	TM30/PM17
Dissolved Copper (A10) #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM30/PM17
Dissolved Lead #	0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	TM30/PM17
Dissolved Lead (A10) #	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM30/PM17
Dissolved Molybdenum #	0.006	0.006	0.015	<0.002	0.007	0.015	0.004	0.006	0.014	0.003	<0.002	mg/l	TM30/PM17
Dissolved Molybdenum (A10) #	0.06	0.06	0.15	<0.02	0.07	0.15	0.04	0.06	0.14	0.03	<0.02	mg/kg	TM30/PM17
Dissolved Nickel #	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/l	TM30/PM17
Dissolved Nickel (A10) #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM30/PM17
Dissolved Selenium #	<0.003	<0.003	0.013	<0.003	<0.003	0.009	<0.003	<0.003	0.038	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Selenium (A10) #	<0.03	<0.03	0.13	<0.03	<0.03	0.09	<0.03	<0.03	0.38	<0.03	<0.03	mg/kg	TM30/PM17
Dissolved Zinc #	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	TM30/PM17
Dissolved Zinc (A10) #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM30/PM17
Mercury Dissolved by CVAF #	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	mg/l	TM61/PM0
Mercury Dissolved by CVAF #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	mg/kg	TM61/PM0
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	TM26/PM0
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM26/PM0
Fluoride	0.3	<0.3	<0.3	0.3	<0.3	<0.3	0.3	<0.3	<0.3	0.4	<0.3	mg/l	TM173/PM0
Fluoride	<3	<3	<3	<3	<3	<3	<3	<3	<3	4	<3	mg/kg	TM173/PM0
Sulphate as SO4 #	<0.5	<0.5	2.6	<0.5	0.5	7.9	<0.5	<0.5	29.3	<0.5	<0.5	mg/l	TM38/PM0
Sulphate as SO4 #	<5	<5	26	<5	5	79	<5	<5	293	<5	<5	mg/kg	TM38/PM0
Mass of raw test portion	0.1033	0.1011	0.1016	0.1088	0.0998	0.1001	0.0989	0.1014	0.0974	0.1058		kg	NONE/PM17
Chloride #	0.3	<0.3	0.8	0.5	0.5	2.2	0.3	0.4	7.8	0.8	<0.3	mg/l	TM38/PM0
Chloride #	<3	<3	8	5	5	22	<3	4	78	8	<3	mg/kg	TM38/PM0
Mass of dried test portion	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		kg	NONE/PM17
Dissolved Organic Carbon	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	mg/l	TM60/PM0
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	mg/kg	TM60/PM0
pH	6.74	7.14	7.37	7.71	7.79	7.63	7.77	7.78	7.71	7.94	<0.1	pH units	TM73/PM0









**Element Materials Technology**

**Client Name:** Ground Investigations Ireland **Report :** EN12457\_2  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount FinSolids: V=60g VOC jar, J=250g glass jar, T=plastic tub)  
**Contact:** Diarmaid MagLochlainn  
**EMT Job No:** 24/42

EMT Sample No.	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40						
Sample ID	WSBH01	WSBH01	WSBH01	WSBH02	WSBH02	WSBH02	WSBH03	WSBH03	WSBH03	WSBH04						
Depth	0.00-1.00	1.00-2.00	2.00-2.50	0.00-1.00	1.00-2.00	2.00-2.60	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00						
COC No / misc																
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T						
Sample Date	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	1	1	1	1	1	1	1	1	1	1	Inert	Stable Non-reactive	Hazardous	LOD LOR	Units	Method No.
Date of Receipt	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024						
<b>Solid Waste Analysis</b>																
Total Organic Carbon #	0.31	0.37	0.65	0.73	0.34	0.60	0.25	0.33	0.68	0.51	3	5	6	<0.02	%	TM21/PM24
Sum of BTEX	<0.025	<0.025	<0.025 <sup>SV</sup>	<0.025	<0.025	<0.025 <sup>SV</sup>	<0.025	<0.025	<0.025 <sup>SV</sup>	0.029	6	-	-	<0.025	mg/kg	TM36/PM12
Sum of 7 PCBs #	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1	-	-	<0.035	mg/kg	TM17/PM8
Mineral Oil	<30	<30	64	<30	<30	82	<30	<30	70	<30	500	-	-	<30	mg/kg	TM5/PM8/PM16
PAH Sum of 6 #	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	<0.22	mg/kg	TM4/PM8
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	-	-	<0.64	mg/kg	TM4/PM8
<b>CEN 10:1 Leachate</b>																
Arsenic #	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5	2	25	<0.025	mg/kg	TM30/PM17
Barium #	<0.03	<0.03	0.04	<0.03	0.04	0.05	<0.03	<0.03	0.26	<0.03	20	100	300	<0.03	mg/kg	TM30/PM17
Cadmium #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	1	5	<0.005	mg/kg	TM30/PM17
Chromium #	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.5	10	70	<0.015	mg/kg	TM30/PM17
Copper #	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	2	50	100	<0.07	mg/kg	TM30/PM17
Mercury #	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	0.01	0.2	2	<0.0001	mg/kg	TM61/PM0
Molybdenum #	0.06	0.06	0.15	<0.02	0.07	0.15	0.04	0.06	0.14	0.03	0.5	10	30	<0.02	mg/kg	TM30/PM17
Nickel #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	10	40	<0.02	mg/kg	TM30/PM17
Lead #	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	10	50	<0.05	mg/kg	TM30/PM17
Antimony #	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.7	5	<0.02	mg/kg	TM30/PM17
Selenium #	<0.03	<0.03	0.13	<0.03	<0.03	0.09	<0.03	<0.03	0.38	<0.03	0.1	0.5	7	<0.03	mg/kg	TM30/PM17
Zinc #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	4	50	200	<0.03	mg/kg	TM30/PM17
Total Dissolved Solids #	470	370	390	540	430	410	390	<350	920	640	4000	60000	100000	<350	mg/kg	TM20/PM0
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	500	800	1000	<20	mg/kg	TM60/PM0
Mass of raw test portion	0.1033	0.1011	0.1016	0.1088	0.0998	0.1001	0.0989	0.1014	0.0974	0.1058	-	-	-		kg	NONE/PM17
Dry Matter Content Ratio	86.8	89.3	88.3	82.7	89.7	90.2	91.2	88.6	92.9	84.7	-	-	-	<0.1	%	NONE/PM4
Leachant Volume	0.886	0.889	0.888	0.881	0.89	0.89	0.891	0.888	0.893	0.884	-	-	-		l	NONE/PM17
Moisture Content 105C (% Dry Weight)	15.2	12.0	13.3	21.0	11.5	10.8	9.7	12.9	7.6	18.0	-	-	-	<0.1	%	PM4/PM0
pH #	8.80	8.72	8.69	8.44	8.65	8.48	8.71	8.75	8.53	8.54	-	-	-	<0.01	pH units	TM73/PM11
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	-	-	<0.1	mg/kg	TM26/PM0
Fluoride	<3	<3	<3	<3	<3	<3	<3	<3	<3	4	10	150	500	<3	mg/kg	TM173/PM0
Sulphate as SO4 #	<5	<5	26	<5	5	79	<5	<5	293	<5	1000	20000	50000	<5	mg/kg	TM38/PM0
Chloride #	<3	<3	8	5	5	22	<3	4	78	8	800	15000	25000	<3	mg/kg	TM38/PM0

Please see attached notes for all abbreviations and acronyms







**Client Name:** Ground Investigations Ireland  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount Finglas)  
**Contact:** Diarmaid MagLochlainn

**Note:**  
 Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

Where trace asbestos is reported the amount of asbestos will be <0.1%.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
24/42	1	WSBH01	0.00-1.00	4	Mathew Day	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil
					Mathew Day	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos ACM</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH01	1.00-2.00	8	Catherine Coles	05/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	05/01/2024	<b>Asbestos Fibres</b>	NAD
					Catherine Coles	05/01/2024	<b>Asbestos ACM</b>	NAD
					Catherine Coles	05/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH01	2.00-2.50	12	Emily Anderton	04/01/2024	<b>General Description (Bulk Analysis)</b>	Brown soil and clay with stones
					Emily Anderton	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Emily Anderton	04/01/2024	<b>Asbestos ACM</b>	NAD
					Emily Anderton	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH02	0.00-1.00	16	Charlotte Taylor	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil/stones
					Charlotte Taylor	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH02	1.00-2.00	20	Mathew Day	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil
					Mathew Day	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos ACM</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH02	2.00-2.60	24	Mathew Day	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil
					Mathew Day	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos ACM</b>	NAD
					Mathew Day	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH03	0.00-1.00	28	Emily Anderton	05/01/2024	<b>General Description (Bulk Analysis)</b>	Brown soil and clay with stones
					Emily Anderton	05/01/2024	<b>Asbestos Fibres</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos ACM</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH03	1.00-2.00	32	Catherine Coles	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos ACM</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos Type</b>	NAD



**Client Name:** Ground Investigations Ireland  
**Reference:** 13061-08-23  
**Location:** Housing Bundle Finglas Wellmount - Lot 1 (AKA Wellmount Finglas)  
**Contact:** Diarmaid MagLochlainn

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
24/42	1	WSBH03	2.00-3.00	36	Catherine Coles	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos ACM</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH04	0.00-1.00	40	Emily Anderton	05/01/2024	<b>General Description (Bulk Analysis)</b>	Brown soil and clay with stones
					Emily Anderton	05/01/2024	<b>Asbestos Fibres</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos ACM</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH04	1.00-2.00	44	Charlotte Taylor	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil/stones
					Charlotte Taylor	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	WSBH04	2.00-3.00	48	Emily Anderton	04/01/2024	<b>General Description (Bulk Analysis)</b>	Brown soil with clay and stones
					Emily Anderton	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Emily Anderton	04/01/2024	<b>Asbestos ACM</b>	NAD
					Emily Anderton	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	BH05	0.20-1.10	52	Emily Anderton	05/01/2024	<b>General Description (Bulk Analysis)</b>	Brown soil and stones
					Emily Anderton	05/01/2024	<b>Asbestos Fibres</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos ACM</b>	NAD
					Emily Anderton	05/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	BH05	1.10-2.00	56	Catherine Coles	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos ACM</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	BH06	0.20-0.80	60	Catherine Coles	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos ACM</b>	NAD
					Catherine Coles	04/01/2024	<b>Asbestos Type</b>	NAD
24/42	1	BH06	1.00-2.00	64	Charlotte Taylor	04/01/2024	<b>General Description (Bulk Analysis)</b>	brown soil/stones
					Charlotte Taylor	04/01/2024	<b>Asbestos Fibres</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	04/01/2024	<b>Asbestos Type</b>	NAD



# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 24/42

## SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

## WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

## DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

## BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.



## NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

## REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

### Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

### Customer Provided Information

Sample ID and depth is information provided by the customer.

### Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**ABBREVIATIONS and ACRONYMS USED**

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

## HWOL ACRONYMS AND OPERATORS USED

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	EU_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.



EMT Job No: 24/42

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes

EMT Job No: 24/42

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM61	Determination of Mercury by Cold Vapour Atomic Fluorescence - WATERS: Modified USEPA Method 245.7, Rev 2, Feb 2005. SOILS: Modified USEPA Method 7471B, Rev.2, Feb 2007	PM0	No preparation is required.	Yes		AR	Yes

EMT Job No: 24/42

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	



# APPENDIX 5 – HazWasteOnLine™ Report



# Waste Classification Report

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

- 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)



9919M-XI8KY-HUOTS

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

## Job name

Wellmount NDFA

## Description/Comments

## Project

13061-08-23

## Site

Wellmount

## Classified by

Name: **Barry Sexton**  
Date: **17 Apr 2024 15:35 GMT**  
Telephone: **353 (0)1 601 5175 / 5176**

Company: **Ground Investigations Ireland Ltd**  
**Catherinstown House, Hazelhatch Road,**  
**Newcastle, Co. Dublin.**

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  
Most recent 3 year Refresher

### Date

10 Apr 2019  
19 Apr 2022

Next 3 year Refresher due by Apr 2025

## Purpose of classification

7 - Disposal of Waste

## Address of the waste

Wellmount Finglas

Post Code N/A

## Description of industry/producer giving rise to the waste

Housing Development

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

Foundation Construction

## Description of the waste

Foundation Construction



## Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WSBH01-20/12/2023-0.00-1.00m		Non Hazardous		3
2	WSBH01-20/12/2023-1.00-2.00m		Non Hazardous		5
3	WSBH01-20/12/2023-2.00-2.50m		Non Hazardous		7
4	WSBH02-20/12/2023-0.00-1.00m		Non Hazardous		10
5	WSBH02-20/12/2023-1.00-2.00m		Non Hazardous		12
6	WSBH02-20/12/2023-2.00-2.60m		Non Hazardous		14
7	WSBH03-20/12/2023-0.00-1.00m		Non Hazardous		17
8	WSBH03-20/12/2023-1.00-2.00m		Non Hazardous		19
9	WSBH03-20/12/2023-2.00-3.00m		Non Hazardous		21
10	WSBH04-20/12/2023-0.00-1.00m		Non Hazardous		24
11	WSBH04-20/12/2023-1.00-2.00m		Non Hazardous		27
12	WSBH04-20/12/2023-2.00-3.00m		Non Hazardous		30
13	BH05-21/12/2023-0.20-1.10m		Non Hazardous		33
14	BH05-21/12/2023-1.10-2.00m		Non Hazardous		36
15	BH06-21/12/2023-0.20-0.80m		Non Hazardous		39
16	BH06-21/12/2023-1.00-2.00m		Non Hazardous		42

## Related documents

#	Name	Description
1	EMT-24-42-Batch-1-202401121015.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

## Report

Created by: Barry Sexton

Created date: 17 Apr 2024 15:35 GMT

Appendices	Page
Appendix A: Classifier defined and non EU CLP determinands	45
Appendix B: Rationale for selection of metal species	46
Appendix C: Version	47



Classification of sample: WSBH01-20/12/2023-0.00-1.00m

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

**Sample details**

Sample name:	LoW Code:	
<b>WSBH01-20/12/2023-0.00-1.00m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>11.5%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 11.5% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.119 mg/kg	0.000212 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.4 mg/kg	1.32	10.984 mg/kg	0.0011 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.8 mg/kg	1.142	1.82 mg/kg	0.000182 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	16.815 mg/kg	0.00168 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
		024-017-00-8								
6	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	24.91 mg/kg	0.00249 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	14 mg/kg	1.56	19.326 mg/kg	0.00124 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.4 mg/kg	1.5	4.514 mg/kg	0.000451 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				35.7 mg/kg	2.976	94.034 mg/kg	0.0094 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				65 mg/kg	2.774	159.583 mg/kg	0.016 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							




#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.8 pH		8.8 pH	8.8 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		43 mg/kg	1.117	42.489 mg/kg	0.00425 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0427 %		

Key

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

Classification of sample: WSBH01-20/12/2023-1.00-2.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH01-20/12/2023-1.00-2.00m</b>	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
<b>12.9%</b>	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**Hazard properties**

None identified

**Determinands**

Moisture content: 12.9% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.085 mg/kg	0.000209 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.5 mg/kg	1.32	10.925 mg/kg	0.00109 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				2 mg/kg	1.142	1.99 mg/kg	0.000199 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.4 mg/kg	1.462	19.604 mg/kg	0.00196 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
		024-017-00-8								
6	copper { dicopper oxide; copper (I) oxide }				28 mg/kg	1.126	27.458 mg/kg	0.00275 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	17 mg/kg	1.56	23.096 mg/kg	0.00148 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.4 mg/kg	1.5	4.443 mg/kg	0.000444 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				43.9 mg/kg	2.976	113.803 mg/kg	0.0114 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				2 mg/kg	2.554	4.449 mg/kg	0.000445 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				90 mg/kg	2.774	217.465 mg/kg	0.0217 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							






#	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								
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
19	pH		PH		8.72 pH		8.72 pH	8.72 pH			
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD	
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD	
37	barium { barium oxide } 215-127-9		1304-28-5		70 mg/kg	1.117	68.073 mg/kg	0.00681 %	✓		
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
Total:									0.054 %		

Key

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

Classification of sample: WSBH01-20/12/2023-2.00-2.50m

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

**Sample details**

Sample name:	LoW Code:	
<b>WSBH01-20/12/2023-2.00-2.50m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>12.6%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 12.6% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.093 mg/kg	0.000209 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.3 mg/kg	1.32	10.732 mg/kg	0.00107 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.9 mg/kg	1.142	1.897 mg/kg	0.00019 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14.6 mg/kg	1.462	18.65 mg/kg	0.00187 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	24.601 mg/kg	0.00246 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	14 mg/kg	1.56	19.086 mg/kg	0.00122 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				2.9 mg/kg	1.5	3.802 mg/kg	0.00038 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				37.2 mg/kg	2.976	96.767 mg/kg	0.00968 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				5 mg/kg	2.554	11.16 mg/kg	0.00112 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				74 mg/kg	2.774	179.421 mg/kg	0.0179 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				64 mg/kg		55.936 mg/kg	0.00559 %	✓	
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							



#	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								
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
19	pH		PH		8.69 pH		8.69 pH	8.69 pH			
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD	
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD	
37	barium { barium oxide }	215-127-9	1304-28-5		42 mg/kg	1.117	40.985 mg/kg	0.0041 %	✓		
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
Total:									0.0461 %		

Key

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



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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.00559%)

Classification of sample: WSBH02-20/12/2023-0.00-1.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH02-20/12/2023-0.00-1.00m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:
<b>20%</b> (wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**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	antimony { antimony trioxide }				4 mg/kg	1.197	3.831 mg/kg	0.000383 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				17.4 mg/kg	1.32	18.379 mg/kg	0.00184 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				3.6 mg/kg	1.142	3.29 mg/kg	0.000329 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				34.2 mg/kg	1.462	39.988 mg/kg	0.004 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				39 mg/kg	1.126	35.128 mg/kg	0.00351 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	33 mg/kg	1.56	41.179 mg/kg	0.00264 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				5.2 mg/kg	1.5	6.241 mg/kg	0.000624 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				71.6 mg/kg	2.976	170.48 mg/kg	0.017 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				3 mg/kg	2.554	6.129 mg/kg	0.000613 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				130 mg/kg	2.774	288.511 mg/kg	0.0289 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							


#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.44 pH		8.44 pH	8.44 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		111 mg/kg	1.117	99.146 mg/kg	0.00991 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0752 %		

Key

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



Classification of sample: WSBH02-20/12/2023-1.00-2.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH02-20/12/2023-1.00-2.00m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>12.8%</b> (wet weight correction)	

**Hazard properties**

None identified


**Determinands**

Moisture content: 12.8% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.088 mg/kg	0.000209 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.4 mg/kg	1.32	10.822 mg/kg	0.00108 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				2 mg/kg	1.142	1.992 mg/kg	0.000199 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.3 mg/kg	1.462	22.048 mg/kg	0.0022 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	26.508 mg/kg	0.00265 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	16 mg/kg	1.56	21.763 mg/kg	0.0014 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.1 mg/kg	1.5	4.055 mg/kg	0.000406 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				44 mg/kg	2.976	114.193 mg/kg	0.0114 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				83 mg/kg	2.774	200.782 mg/kg	0.0201 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.65 pH		8.65 pH	8.65 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		55 mg/kg	1.117	53.548 mg/kg	0.00535 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0507 %		

Key

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

Classification of sample: WSBH02-20/12/2023-2.00-2.60m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH02-20/12/2023-2.00-2.60m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:
<b>8.2%</b> (wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**Hazard properties**

None identified

**Determinands**


Moisture content: 8.2% 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	antimony { antimony trioxide }				1 mg/kg	1.197	1.099 mg/kg	0.00011 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.4 mg/kg	1.32	11.393 mg/kg	0.00114 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				2 mg/kg	1.142	2.097 mg/kg	0.00021 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.1 mg/kg	1.462	20.26 mg/kg	0.00203 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	26.873 mg/kg	0.00269 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	14 mg/kg	1.56	20.047 mg/kg	0.00129 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.2 mg/kg	1.5	4.407 mg/kg	0.000441 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				34.9 mg/kg	2.976	95.354 mg/kg	0.00954 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				3 mg/kg	2.554	7.033 mg/kg	0.000703 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				73 mg/kg	2.774	185.907 mg/kg	0.0186 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				82 mg/kg		75.276 mg/kg	0.00753 %	✓	
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							



#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.48 pH		8.48 pH	8.48 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		46 mg/kg	1.117	47.148 mg/kg	0.00471 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0492 %		

Key

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

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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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**Fam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.00753%)

Classification of sample: WSBH03-20/12/2023-0.00-1.00m

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

**Sample details**

Sample name:	LoW Code:	
<b>WSBH03-20/12/2023-0.00-1.00m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>11.5%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 11.5% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.119 mg/kg	0.000212 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				10.6 mg/kg	1.32	12.386 mg/kg	0.00124 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.8 mg/kg	1.142	1.82 mg/kg	0.000182 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14.2 mg/kg	1.462	18.367 mg/kg	0.00184 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
		024-017-00-8								
6	copper { dicopper oxide; copper (I) oxide }				29 mg/kg	1.126	28.896 mg/kg	0.00289 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	17 mg/kg	1.56	23.467 mg/kg	0.0015 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.3 mg/kg	1.5	4.381 mg/kg	0.000438 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				38.8 mg/kg	2.976	102.199 mg/kg	0.0102 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				82 mg/kg	2.774	201.32 mg/kg	0.0201 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							





#	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							
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	pH				8.71 pH		8.71 pH	8.71 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
37	barium { barium oxide }				59 mg/kg	1.117	58.298 mg/kg	0.00583 %	✓	
		215-127-9	1304-28-5							
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1							
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3							
Total:								0.0502 %		

Key

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

Classification of sample: WSBH03-20/12/2023-1.00-2.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH03-20/12/2023-1.00-2.00m</b>	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
<b>11.6%</b>	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**Hazard properties**

None identified

**Determinands**

Moisture content: 11.6% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.116 mg/kg	0.000212 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.3 mg/kg	1.32	10.855 mg/kg	0.00109 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.9 mg/kg	1.142	1.919 mg/kg	0.000192 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.7 mg/kg	1.462	16.409 mg/kg	0.00164 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
		024-017-00-8								
6	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	25.877 mg/kg	0.00259 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	15 mg/kg	1.56	20.683 mg/kg	0.00133 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3 mg/kg	1.5	3.979 mg/kg	0.000398 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				40.8 mg/kg	2.976	107.346 mg/kg	0.0107 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				73 mg/kg	2.774	179.021 mg/kg	0.0179 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							




#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.75 pH		8.75 pH	8.75 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		50 mg/kg	1.117	49.35 mg/kg	0.00493 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0467 %		

Key

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

Classification of sample: WSBH03-20/12/2023-2.00-3.00m

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

**Sample details**

Sample name:	LoW Code:	
<b>WSBH03-20/12/2023-2.00-3.00m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>7.4%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 7.4% 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	antimony { antimony trioxide } 051-005-00-X   215-175-0   1309-64-4				1 mg/kg	1.197	1.109 mg/kg	0.000111 %	✓	
2	arsenic { arsenic trioxide } 033-003-00-0   215-481-4   1327-53-3				12.4 mg/kg	1.32	15.161 mg/kg	0.00152 %	✓	
3	cadmium { cadmium oxide } 048-002-00-0   215-146-2   1306-19-0				1.3 mg/kg	1.142	1.375 mg/kg	0.000138 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9   1308-38-9				13.8 mg/kg	1.462	18.677 mg/kg	0.00187 %	✓	
5	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				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X   215-270-7   1317-39-1				26 mg/kg	1.126	27.107 mg/kg	0.00271 %	✓	
7	lead { lead chromate } 082-004-00-2   231-846-0   7758-97-6			1	14 mg/kg	1.56	20.221 mg/kg	0.0013 %	✓	
8	mercury { mercury dichloride } 080-010-00-X   231-299-8   7487-94-7				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
9	molybdenum { molybdenum(VI) oxide } 042-001-00-9   215-204-7   1313-27-5				3.7 mg/kg	1.5	5.14 mg/kg	0.000514 %	✓	
10	nickel { nickel chromate } 028-035-00-7   238-766-5   14721-18-7				35.7 mg/kg	2.976	98.39 mg/kg	0.00984 %	✓	
11	selenium { nickel selenate } 028-031-00-5   239-125-2   15060-62-5				3 mg/kg	2.554	7.095 mg/kg	0.000709 %	✓	
12	zinc { zinc chromate } 024-007-00-3   236-878-9   13530-65-9				67 mg/kg	2.774	172.114 mg/kg	0.0172 %	✓	
13	TPH (C6 to C40) petroleum group TPH				70 mg/kg		64.82 mg/kg	0.00648 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X   216-653-1   1634-04-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	benzene 601-020-00-8   200-753-7   71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	toluene 601-021-00-3   203-625-9   108-88-3				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH				8.53 pH		8.53 pH	8.53 pH			
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				56 mg/kg	1.117	57.898 mg/kg	0.00579 %	✓		
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.0484 %		

Key

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

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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00648%)

Classification of sample: WSBH04-20/12/2023-0.00-1.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH04-20/12/2023-0.00-1.00m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:
<b>15.2%</b> (wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**Hazard properties**

None identified


**Determinands**

Moisture content: 15.2% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.03	mg/kg	0.000203 %	✓	
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				13.1 mg/kg	1.32	14.667	mg/kg	0.00147 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				2.1 mg/kg	1.142	2.034	mg/kg	0.000203 %	✓	
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.7 mg/kg	1.462	25.656	mg/kg	0.00257 %	✓	
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	36.281	mg/kg	0.00363 %	✓	
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	22 mg/kg	1.56	29.1	mg/kg	0.00187 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	molybdenum { molybdenum(VI) oxide }				3.4 mg/kg	1.5	4.325	mg/kg	0.000433 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
10	nickel { nickel chromate }				54.5 mg/kg	2.976	137.551	mg/kg	0.0138 %	✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc chromate }				104 mg/kg	2.774	244.658	mg/kg	0.0245 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH								
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				0.029 mg/kg		0.0246	mg/kg	0.00000246 %	✓	
	601-021-00-3	203-625-9	108-88-3								

#	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							
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	pH				8.54 pH		8.54 pH	8.54 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
37	barium { barium oxide }				63 mg/kg	1.117	59.648 mg/kg	0.00596 %	✓	
		215-127-9	1304-28-5							
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1							
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3							
Total:								0.0603 %		

Key

<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	User supplied data
<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
<span style="color: green;">●</span>	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification



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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinand:

toluene: (conc.: 2.46e-06%)

Classification of sample: WSBH04-20/12/2023-1.00-2.00m

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

**Sample details**

Sample name:	LoW Code:	
<b>WSBH04-20/12/2023-1.00-2.00m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>10.2%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 10.2% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.15 mg/kg	0.000215 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				11.9 mg/kg	1.32	14.109 mg/kg	0.00141 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.8 mg/kg	1.142	1.846 mg/kg	0.000185 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18.4 mg/kg	1.462	24.15 mg/kg	0.00241 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
		024-017-00-8								
6	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	27.298 mg/kg	0.00273 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	14 mg/kg	1.56	19.61 mg/kg	0.00126 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3 mg/kg	1.5	4.042 mg/kg	0.000404 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				39.5 mg/kg	2.976	105.571 mg/kg	0.0106 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				1 mg/kg	2.554	2.293 mg/kg	0.000229 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				86 mg/kg	2.774	214.242 mg/kg	0.0214 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.013 mg/kg		0.0117 mg/kg	0.00000117 %	✓	
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				0.019 mg/kg		0.0171 mg/kg	0.00000171 %	✓	
	601-021-00-3	203-625-9	108-88-3							



#	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								
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
19	pH		PH		8.75 pH		8.75 pH	8.75 pH			
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD	
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD	
37	barium { barium oxide } 215-127-9		1304-28-5		44 mg/kg	1.117	44.115 mg/kg	0.00441 %	✓		
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
Total:									0.0507 %		

Key

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

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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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


Because of determinands:

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 1.17e-06%)

toluene: (conc.: 1.71e-06%)



Classification of sample: WSBH04-20/12/2023-2.00-3.00m

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

**Sample details**

Sample name:	LoW Code:
<b>WSBH04-20/12/2023-2.00-3.00m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>9.1%</b> (wet weight correction)	

**Hazard properties**

None identified


**Determinands**

Moisture content: 9.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				2 mg/kg	1.197	2.176 mg/kg	0.000218 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				8.7 mg/kg	1.32	10.442 mg/kg	0.00104 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.8 mg/kg	1.142	1.869 mg/kg	0.000187 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.6 mg/kg	1.462	18.068 mg/kg	0.00181 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	26.609 mg/kg	0.00266 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	18 mg/kg	1.56	25.522 mg/kg	0.00164 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				3.5 mg/kg	1.5	4.773 mg/kg	0.000477 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				37.3 mg/kg	2.976	100.912 mg/kg	0.0101 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				4 mg/kg	2.554	9.286 mg/kg	0.000929 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc chromate }				77 mg/kg	2.774	194.171 mg/kg	0.0194 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
13	TPH (C6 to C40) petroleum group				78 mg/kg		70.902 mg/kg	0.00709 %	✓	
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.108 mg/kg		0.0982 mg/kg	0.00000982 %	✓	
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				0.166 mg/kg		0.151 mg/kg	0.0000151 %	✓	
	601-021-00-3	203-625-9	108-88-3							

#	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							
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	pH				8.9 pH		8.9 pH	8.9 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
37	barium { barium oxide }				74 mg/kg	1.117	75.103 mg/kg	0.00751 %	✓	
		215-127-9	1304-28-5							
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1							
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3							
Total:								0.0533 %		

Key

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

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## Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinands:

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 9.82e-06%)

toluene: (conc.: 0.00001%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00709%)

Classification of sample: BH05-21/12/2023-0.20-1.10m

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

**Sample details**

Sample name:	LoW Code:	
<b>BH05-21/12/2023-0.20-1.10m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>17.4%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 17.4% 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	antimony { antimony trioxide }				2	mg/kg	1.197	1.978	mg/kg	0.000198 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				14.9	mg/kg	1.32	16.25	mg/kg	0.00162 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2.7	mg/kg	1.142	2.548	mg/kg	0.000255 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.6	mg/kg	1.462	27.284	mg/kg	0.00273 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
		024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				44	mg/kg	1.126	40.919	mg/kg	0.00409 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	51	mg/kg	1.56	65.709	mg/kg	0.00421 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.224	mg/kg	0.0000224 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				3.4	mg/kg	1.5	4.213	mg/kg	0.000421 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				48.1	mg/kg	2.976	118.249	mg/kg	0.0118 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				2	mg/kg	2.554	4.219	mg/kg	0.000422 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc chromate }				126	mg/kg	2.774	288.722	mg/kg	0.0289 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				0.022	mg/kg		0.0182	mg/kg	0.00000182 %	✓	
	601-021-00-3	203-625-9	108-88-3									





#	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							
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	pH				8.45 pH		8.45 pH	8.45 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				0.08 mg/kg		0.0661 mg/kg	0.00000661 %	✓	
		205-912-4	206-44-0							
27	pyrene				0.07 mg/kg		0.0578 mg/kg	0.00000578 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.08 mg/kg		0.0661 mg/kg	0.00000661 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.06 mg/kg		0.0496 mg/kg	0.00000496 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.07 mg/kg		0.0578 mg/kg	0.00000578 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.03 mg/kg		0.0248 mg/kg	0.00000248 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.0496 mg/kg	0.00000496 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
37	barium { barium oxide }				113 mg/kg	1.117	104.212 mg/kg	0.0104 %	✓	
		215-127-9	1304-28-5							
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1							
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3							
Total:								0.0705 %		

Key

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

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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase


Hazard Statements hit:

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

Because of determinand:

toluene: (conc.: 1.82e-06%)

Classification of sample: BH05-21/12/2023-1.10-2.00m

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

**Sample details**

Sample name: <b>BH05-21/12/2023-1.10-2.00m</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: <b>12.4%</b> (wet weight correction)	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**Hazard properties**

None identified


**Determinands**

Moisture content: 12.4% 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	antimony { antimony trioxide }				2 mg/kg	1.197	2.097 mg/kg	0.00021 %		✓	
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	12.723 mg/kg	0.00127 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				2.1 mg/kg	1.142	2.101 mg/kg	0.00021 %		✓	
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.7 mg/kg	1.462	20.101 mg/kg	0.00201 %		✓	
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	30.575 mg/kg	0.00306 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	17 mg/kg	1.56	23.229 mg/kg	0.00149 %		✓	
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	molybdenum { molybdenum(VI) oxide }				3 mg/kg	1.5	3.942 mg/kg	0.000394 %		✓	
	042-001-00-9	215-204-7	1313-27-5								
10	nickel { nickel chromate }				39.8 mg/kg	2.976	103.767 mg/kg	0.0104 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				1 mg/kg	2.554	2.237 mg/kg	0.000224 %		✓	
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc chromate }				84 mg/kg	2.774	204.133 mg/kg	0.0204 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
13	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %			<LOD
			TPH								
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.022 mg/kg		0.0193 mg/kg	0.00000193 %		✓	
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				0.019 mg/kg		0.0166 mg/kg	0.00000166 %		✓	
	601-021-00-3	203-625-9	108-88-3								

#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.66 pH		8.66 pH	8.66 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3		129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		49 mg/kg	1.117	47.925 mg/kg	0.00479 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0499 %		

Key

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



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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinands:

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tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 1.93e-06%)  
toluene: (conc.: 1.66e-06%)

Classification of sample: BH06-21/12/2023-0.20-0.80m

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

**Sample details**

Sample name:	LoW Code:	
<b>BH06-21/12/2023-0.20-0.80m</b>	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>17%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide } 051-005-00-X   215-175-0   1309-64-4				2 mg/kg	1.197	1.987 mg/kg	0.000199 %	✓	
2	arsenic { arsenic trioxide } 033-003-00-0   215-481-4   1327-53-3				13.5 mg/kg	1.32	14.794 mg/kg	0.00148 %	✓	
3	cadmium { cadmium oxide } 048-002-00-0   215-146-2   1306-19-0				2.4 mg/kg	1.142	2.276 mg/kg	0.000228 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9   1308-38-9				22.7 mg/kg	1.462	27.537 mg/kg	0.00275 %	✓	
5	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				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X   215-270-7   1317-39-1				47 mg/kg	1.126	43.921 mg/kg	0.00439 %	✓	
7	lead { lead chromate } 082-004-00-2   231-846-0   7758-97-6			1	53 mg/kg	1.56	68.616 mg/kg	0.0044 %	✓	
8	mercury { mercury dichloride } 080-010-00-X   231-299-8   7487-94-7				0.2 mg/kg	1.353	0.225 mg/kg	0.0000225 %	✓	
9	molybdenum { molybdenum(VI) oxide } 042-001-00-9   215-204-7   1313-27-5				3.5 mg/kg	1.5	4.358 mg/kg	0.000436 %	✓	
10	nickel { nickel chromate } 028-035-00-7   238-766-5   14721-18-7				42.6 mg/kg	2.976	105.235 mg/kg	0.0105 %	✓	
11	selenium { nickel selenate } 028-031-00-5   239-125-2   15060-62-5				1 mg/kg	2.554	2.12 mg/kg	0.000212 %	✓	
12	zinc { zinc chromate } 024-007-00-3   236-878-9   13530-65-9				209 mg/kg	2.774	481.231 mg/kg	0.0481 %	✓	
13	TPH (C6 to C40) petroleum group TPH				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X   216-653-1   1634-04-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	benzene 601-020-00-8   200-753-7   71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	toluene 601-021-00-3   203-625-9   108-88-3				0.043 mg/kg		0.0357 mg/kg	0.00000357 %	✓	



#	Determinand			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	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
19	pH				8.54 pH		8.54 pH	8.54 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
37	barium { barium oxide }				108 mg/kg	1.117	100.084 mg/kg	0.01 %	✓	
		215-127-9	1304-28-5							
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1							
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3							
Total:								0.0882 %		

Key

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

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### Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinand:

toluene: (conc.: 3.57e-06%)



Classification of sample: BH06-21/12/2023-1.00-2.00m

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

**Sample details**

Sample name: <b>BH06-21/12/2023-1.00-2.00m</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: <b>23.7%</b> (wet weight correction)	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

**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	antimony { antimony trioxide }				3 mg/kg	1.197	2.74	mg/kg	0.000274 %	✓	
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				16.6 mg/kg	1.32	16.723	mg/kg	0.00167 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				2.3 mg/kg	1.142	2.005	mg/kg	0.0002 %	✓	
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.4 mg/kg	1.462	29.44	mg/kg	0.00294 %	✓	
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				61 mg/kg	1.126	52.402	mg/kg	0.00524 %	✓	
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	63 mg/kg	1.56	74.979	mg/kg	0.00481 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.2 mg/kg	1.353	0.207	mg/kg	0.0000207 %	✓	
	080-010-00-X	231-299-8	7487-94-7								
9	molybdenum { molybdenum(VI) oxide }				4 mg/kg	1.5	4.579	mg/kg	0.000458 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
10	nickel { nickel chromate }				60.5 mg/kg	2.976	137.389	mg/kg	0.0137 %	✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				2 mg/kg	2.554	3.897	mg/kg	0.00039 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc chromate }				163 mg/kg	2.774	345.018	mg/kg	0.0345 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
13	TPH (C6 to C40) petroleum group				67 mg/kg		51.121	mg/kg	0.00511 %	✓	
			TPH								
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.028 mg/kg		0.0214	mg/kg	0.00000214 %	✓	
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	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							
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	pH		PH		8.37 pH		8.37 pH	8.37 pH		
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1		208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6		83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5		86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5		85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1		120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4		206-44-0		0.1 mg/kg		0.0763 mg/kg	0.00000763 %	✓	
27	pyrene 204-927-3		129-00-0		0.1 mg/kg		0.0763 mg/kg	0.00000763 %	✓	
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.12 mg/kg		0.0916 mg/kg	0.00000916 %	✓	
29	chrysene 601-048-00-0	205-923-4	218-01-9		0.09 mg/kg		0.0687 mg/kg	0.00000687 %	✓	
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.1 mg/kg		0.0763 mg/kg	0.00000763 %	✓	
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.04 mg/kg		0.0305 mg/kg	0.00000305 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.08 mg/kg		0.061 mg/kg	0.0000061 %	✓	
33	indeno[123-cd]pyrene 205-893-2		193-39-5		0.07 mg/kg		0.0534 mg/kg	0.00000534 %	✓	
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8		191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
37	barium { barium oxide } 215-127-9		1304-28-5		100 mg/kg	1.117	85.189 mg/kg	0.00852 %	✓	
38	coronene 205-881-7		191-07-1		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0781 %		

Key

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

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## Supplementary Hazardous Property Information

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**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 Solid waste without liquid phase

Hazard Statements hit:

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

Because of determinand:

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 2.14e-06%)

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

Because of determinand:

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

## Appendix A: Classifier defined and non EU CLP 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)

EU CLP index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

### • **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

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

EU CLP index number: 602-039-00-4  
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;  
  
POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.  
Additional Hazard Statement(s): Carc. 1A; H350  
Reason for additional Hazards Statement(s):  
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

▫ **barium oxide** (EC Number: 215-127-9, CAS Number: 1304-28-5)

Description/Comments: Data from ECHA's C&L Inventory Database, Sigma Aldrich SDS dated 6/2/20  
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/88825>  
Data source date: 02 Apr 2020  
Hazard Statements: Acute Tox. 3; H301 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 1; H332

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

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

## Appendix B: Rationale for selection of metal species

### antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

### arsenic {arsenic trioxide}

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

### cadmium {cadmium oxide}

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

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

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

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

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

### copper {dicopper oxide; copper (I) oxide}

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

**lead {lead chromate}**

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

**mercury {mercury dichloride}**

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

**molybdenum {molybdenum(VI) oxide}**

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

**nickel {nickel chromate}**

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

**selenium {nickel selenate}**

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

**zinc {zinc chromate}**

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

**barium {barium oxide}**

Cr VI not detected

**Appendix C: Version**

HazWasteOnline Classification Engine: EU WM3 1st Edition v1.1.NI using the EU LoW

HazWasteOnline Classification Engine Version: 2024.107.6011.11143 (16 Apr 2024)

HazWasteOnline Database: 2024.107.6011.11143 (16 Apr 2024)

This classification utilises the following guidance and legislation:

**WM3 v1.1.NI - Waste Classification** - 1st Edition v1.1.NI - Jan 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

**17th ATP** - Regulation (EU) 2021/849 of 11 March 2021

**18th ATP** - Regulation (EU) 2022/692 of 16 February 2022

**POPs Amendment 2022** - Regulation (EU) 2022/2400 of 23 November 2022

**19th ATP** - Regulation (EU) 2023/1434 of 25 April 2023

**20th ATP** - Regulation (EU) 2023/1435 of 2 May 2023

**21st ATP** - Regulation (EU) 2024/197 of 19 October 2023

# APPENDIX 6 – Waste Category Summary Data



Waste Categorisation Summary Table  
Wellmont NDFA



Sample ID	WSBH01	WSBH01	WSBH01	WSBH02	WSBH02	WSBH02	WSBH03	WSBH03	WSBH03	WSBH03	WSBH04	WSBH04	WSBH04	BH05	BH05	BH06	BH06	
	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00	1.00-2.00	2.00-3.00	0.00-1.00	1.00-2.00	0.00-1.00	1.00-2.00		
Sample Depth (m)	Made Ground <2% Anthropogenic Material			Made Ground <2% Anthropogenic Material			Made Ground <2% Anthropogenic Material			Made Ground <2% Anthropogenic Material			Made Ground <2% Anthropogenic Material			Made Ground <2% Anthropogenic Material		
Material Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	
Sample Date	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	
Lo Code	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	
Waste Category	Category A - Domain 2	Category B2 - Domain 2	Category A - All Domains	Category B2 - Domain 2	Category A - All Domains	Category B1 - Domain 2	Category A - All Domains	Category C - All Domains	Category A - All Domains	Category A - All Domains	Category A - All Domains	Category B1 - Domain 2	Category A - All Domains	Category A - All Domains	Category A - All Domains	Category A - All Domains	Category A - All Domains	
Metals																		
Antimony	2	2	2	4	2	1	2	1	2	1	2	1	2	2	2	2	3	
Arsenic	0.4	0.5	0.3	17.4	0.4	0.4	10.6	9.3	12.4	13.5	11.9	8.7	14.9	11	13.5	16.6		
Barium	43	70	42	111	55	46	59	50	56	63	44	74	113	49	108	100		
Cadmium	1.8	2	1.9	3.6	2	2	1.8	1.9	1.3	2.1	1.8	1.8	2.7	2.1	2.4	4.92		
Chromium	13	15.4	14.6	34.2	17.3	15.1	14.2	12.7	13.8	20.7	18.4	13.6	22.6	15.7	22.7	26.4		
Copper	25	28	24	39	27	26	29	26	29	38	27	26	44	31	47	61		
Lead	14	17	14	33	16	14	17	15	14	22	14	18	51	17	53	63		
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	0.54		
Molybdenum	3.4	3.4	2.9	5.2	3.1	3.2	3.3	3	3.7	3.4	3	3.5	3.4	3	3.5	4		
Nickel	35.7	43.9	37.2	71.6	44	34.9	38.8	40.8	35.7	54.6	39.6	37.3	48.1	39.8	42.6	60.5		
Selenium	<1	2	3	3	<1	3	<1	<1	3	<1	4	2	1	1	2	2		
Zinc	65	90	74	130	83	73	82	73	87	104	86	77	128	84	209	163		
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
pH (solid sample)	8.8	8.72	8.69	8.44	8.65	8.48	8.71	8.75	8.53	8.54	8.75	8.9	8.45	8.66	8.54	8.37		
alkali reserve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Asbestos																		
Asbestos (Dry Weight)	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD		
Asbestos (Moisture Corrected Weight)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ACM Detected	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PAHs																		
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		
Acenaphthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Fluorene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Phenanthrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		
Anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Fluoranthene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.08	<0.03	<0.03	0.1		
Pyrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	<0.03	<0.03	0.1		
Benzo(a)anthracene	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.08	<0.06	<0.06	0.12		
Chrysene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	0.09		
Benzo(b)fluoranthene	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.1	<0.07	<0.07	0.14		
Benzo(a)pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	<0.04	0.08		
Indeno(1,2,3-cd)pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.07		
Dibenz(a,h)anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Benzo(g)herylene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
PAH 6 Total	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	0.24	<0.22	<0.22	0.39		
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	0.7		
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	0.1		
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.04		
Benzo(i)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Hydrocarbons																		
TPH (C5-40)	<52	<52	64	<52	<52	82	<52	<52	70	<52	<52	78	<52	<52	<52	67		
MTBE	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	28		
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	29	19	166	22	19	43	<5		
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
m,p-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
o-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Total 7 PCBs	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36		
WAC** Solid Sample Summary																		
Total Organic Carbon*	0.31	0.37	0.65	0.73	0.34	0.60	0.25	0.33	0.88	0.51	0.43	0.70	1.66	0.39	1.35	2.57		
Sum of BTEX	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.029	<0.025	0.198	<0.025	<0.025	0.043	<0.025		
Sum of 7 PCBs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	0.05		
Mineral Oil	<30	<30	64	<30	<30	82	<30	<30	70	<30	<30	77	<30	<30	<30	50		
PAH Sum of 6	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	0.24	<0.22	<0.22	0.39		
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	0.70		
WAC** Leachate Data																		
Arsenic	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5		
Barium	<0.03	<0.03	0.04	<0.03	0.04	0.05	<0.03	<0.03	0.26	<0.03	<0.03	0.04	<0.03	0.04	0.05	20		
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04		
Chromium	<0.015	<0.01																