

Turner and Townsend

Co-op Academy Smithies Moor

Phase 1 and Phase 2 Geo-environmental and Geotechnical Factual and Interpretative Report

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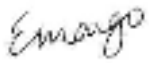
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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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1 EXECUTIVE SUMMARY

Commissioning and purpose of assessment	RSK Environment Limited (RSK) was commissioned by Turner and Townsend to carry out a Phase 1 and Phase 2 Geo-environmental and Geotechnical Factual and Interpretative Report of the land at Co-op Academy Smithies Moor, Leeds Old Road, Heckmondwike, WF16 9BB, grid reference 422066, 424957. The overall aim of the project was to assess potential contamination, geotechnical constraints and possible coal mining legacy issues for the proposed development of a new primary school building on the site of an existing school.
DESK-BASED ASSESSMENT	
Site description and proposed development	The site currently comprises a working primary school academy, occupies an area of 0.90 hectares and is being considered for development for a new school building.
History of site	The site was formerly used for agricultural uses prior to the construction of the school in the 1960s.
Coal Mining history	Extensive coal mining has occurred beneath the site and surrounding area. Coal Authority records indicate that three coal seams have been worked beneath the site from a depth of 77m below ground level (bgl). Their records also indicate and that the site is situated in an area where probable shallow (less than 30m bgl) coal mining has taken place. There are no recorded mine entries within the site boundary.
Previous site investigation (SI) reports	There are no previous SI reports available, however historic BGS borehole records are available.
Geology and environmental setting	The site is directly underlain by the Pennine Lower Coal Measures according to published geological data, which is classified as a secondary A aquifer.
Site reconnaissance findings	The site consists of one school building centrally located on site with a multi-use games area to the rear of the school, car parking to the front (adjacent to Old Leeds Road) and areas of vegetation in various locations. No concerns were noted in terms of potential contamination sources.
Initial conceptual site model (CSM) and preliminary risk assessment (PRA)	Potentially complete contaminant linkages identified with a risk estimate of moderate to low or above include: • direct contact of the potential contamination within the soils to future site users (children, teachers, parents) • migration and build-up of ground gas within on-site buildings. Uncertainties and data gaps have been identified in the CSM at desk study stage and should be considered in the design of future intrusive investigation.
SI scope	The objectives of the site investigation were to determine the depth at which coal seams are present beneath the site, to identify any shallow workings or voids within the underlying geology, investigate any potential contamination within the ground, and obtain samples for subsequent chemical and geotechnical testing and assess potential contaminant linkages identified in the PRA.

SI factual findings	• made ground, principally comprising gravels of natural lithologies, brick and concrete within a cohesive matrix was identified across the site to a maximum depth of 0.80m below ground level (m bgl). Beneath the made ground a thickness of up to 4m of cohesive soils (interpreted as the weathered upper horizons of the Pennine Lower Coal Measures) was encountered. Immediately below this, a thin layer of coal was encountered. This was further underlain by interbedded mudstone and siltstone with another coal seam of up to 1.70m thickness found between 16m-21m bgl • a third coal seam was identified at one location (R05) at 32.20m to 32.70m bgl • in R01, situated to the front (north-west) of the existing school building, a metallic obstruction was encountered at 25.50m depth • significant concentrations of hazardous gases were not encountered during drilling and no evidence of contamination was encountered in the investigation locations.
Refined conceptual site model and geo-environmental assessment	Based on the results of the site investigation and generic quantitative risk assessment (GQRA), the contaminant linkages that have been identified to be potentially complete and to require further action are: • migration and build-up of ground gas within on-site buildings. It should be noted that the assessment undertaken on ground gas monitoring completed to date indicates a low risk to the proposed development, but that further assessment is required to confirm this conclusion in context of the ground conditions revealed by the investigation and the ultimate foundation solution adopted for the development.
Geotechnical assessment	Considering the proposed development, the key geotechnical constraints identified from the ground investigation and laboratory testing results include: clay soils of medium volume change potential, low strength / soft cohesive soils within the top 2m from ground level, shallow coal seams from depths of 1.50m and 5.10m bgl, weathered bedrock of weak Mudstone or Siltstone encountered from depths of 3m to 5.20m bgl, locally elevated sulphates in the weathered bedrock deposits and locally high groundwater table identified during monitoring. In view of the presence of the soft to firm clays encountered in the top 2m (and locally deeper) within the weathered bedrock, conventional spread footings such as deep trench will not be suitable as foundations for the proposed development. Alternatively, recourse to piled or raft foundations are preferred.

Coal mining issues	The RSK rotary borehole drilling investigation of shallow coal seams, identified the following: • intact coal seams of significant and certainly workable thickness are present at shallow depth at all rotary borehole locations • the most shallow seam is present close to subcrop level, recorded a thickness of up to 1.20m and had very little, if any, competent bedrock cover above it • a second intact seam was recorded at a number of locations, lying typically 11m to 15m below the first seam. This was up to 1.70m in thickness and had a variable thickness of rock cover (at some boreholes the cover exceeded ten times the seam thickness but this was absent at other locations) • an apparent metallic obstruction was encountered in R01 at 25.50m, which is interpreted as representing an in situ historic underground coal mining feature. The key findings of the updated CMRA include: • BGS borehole records from beneath the existing school building and immediately surrounding areas recorded shallow historical underground workings • if shallow workings were present, then this could be mitigated by ground treatment including drilling and grouting consolidation works.
Recommendations including issues for further assessment	The following recommendations are made for further assessment of the site to address the risks identified above and/or to address remaining uncertainties: • further assessment with regards to coal mining gas risks is required • further rotary borehole investigation is required to either provide confidence that the shallow coal seams are wholly intact and/or to determine the extent where workings are present and to determine the requirements for consolidation treatment. This, and any treatment if required, would need to be permitted by the Coal Authority.
The information given in this summary is necessarily incomplete and is provided for initial briefing purposes only. The summary must not be used as a substitute for the full text of the report.	



Site Name	Co-op Academy Smithies Moor	NGR	422066, 424957
Site Address	Leeds Old Road, Heckmondwike WF16 9BB	Site area (ha.)	**0.90**

2 INTRODUCTION

2.1 Commissioning

RSK Environment Limited (RSK) was commissioned by Turner and Townsend to carry out a Phase 2 Geo-environmental a Factual and Interpretative Report of the land at Co-op Academy Smithies Moor Leeds Old Road, Heckmondwike WF16 9BB. The project was carried out to an agreed brief as set out in RSK's proposal (Ref. 323197-TL01, dated June 2023) and was designed to support a proposed development comprising an additional school building on an existing primary school site.

RSK's service constraints are shown in **Appendix A**.

The site in question is currently used as a school, which is to be demolished and replaced with a new school on the same site.

2.2 Objectives

The objectives of the work are to:

- establish ground conditions and identify any land contamination and/or geotechnical constraints to the proposed development
- investigate potential shallow coal workings and associated mine legacy issues
- identify the need for any additional investigation or remediation works to demonstrate that the site is suitable for its proposed use.

2.3 Scope of works

The scope of this assessment has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in Land Contamination Risk Management (LCRM) (Environment Agency, 2021a) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017).

The scope of the intrusive investigation has been designed in line with the recommendations of BS5930:2015+A1:2020 Code of practice for ground investigations (BSI, 2020), which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. It has also been developed in general accordance with BS 10175: 2011 + A2 2017. Ground gas assessment has been undertaken in general accordance with BS8576: 2013 and BS 8485:2015+A1:2019.

A brief summary of relevant legislation relating to land contamination is given in **Appendix B**.

The scope of works for the assessment has included the following:

- design and implementation of an intrusive investigation, in situ testing, soil sampling, laboratory geo-environmental and geotechnical testing, and ground gas monitoring of installed boreholes

- interpretation of data to develop a refined conceptual site model (CSM)
- generic quantitative risk assessment (GQRA) of relevant contaminant linkages
- assessment of risk from instability caused by potentially worked shallow coal seams within the proposed development footprint. Works undertaken utilising rotary open hole boreholes
- interpretation of ground conditions and geotechnical data to provide preliminary recommendations with respect to foundations and infrastructure design
- updated coal mining risk assessment (CMRA)
- preparation of this factual and interpretative report.

Groundwater and surface water sampling was not included as part of the sampling regime and as such has not been discussed further in this report. Groundwater levels were measured during gas monitoring rounds and the results are presented in the report.

2.4 Existing reports

The following reports were made available for review and should be read in conjunction with this assessment:

- RSK Preliminary Risk Assessment (PRA): 350555 Co Op Smithies Moor School PRA R01 (dated April 2023)
- SWECO Coal Mining Risk Assessment (CMRA): 65208318-SWE-XX-XX-T-GE-0001-C01 (dated February 2023).

The conceptual site model presented in the PRA has been refined in this report. The site investigation was designed to address the following potentially complete linkages found within the initial conceptual site model:

- direct contact of the potential contamination within the soils to future site users (children, teachers, parents)
- migration and build-up of ground gas within on site buildings.

The SWECO CMRA identified the potential for shallow underground coal seam workings to be present beneath the site and consequently the presently reported RSK investigation has included additional borehole investigation. It should also be noted that the development site boundary has been slightly extended since the SWECO CMRA was produced as it did not include a small parcel of land to the north east of the existing school site that is to be procured from the Local Authority to enable the preferred development layout to be progressed (see Section 3.4). As a result, this report includes an updated CMRA (see Section 8), which includes this additional piece of land and the findings of the new RSK rotary borehole investigation.

2.5 Limitations

This report is subject to the RSK service constraints given in **Appendix A** and limitations that may be described through this document.

3 SITE DETAILS

3.1 Site location

Site location details are presented in Table 1 and a site location plan is provided on **Figure 1.**

Table 1 Site location details

Site name	Co-op Academy Smithies Moor
Full site address and Post code	Leeds Old Road, Heckmondwike WF16 9BB
National Grid reference (centre of site)	422066, 424957

3.2 Site description

The site boundary and current layout are shown on **Figure 2**. The site covers an area of approximately 0.90 hectares. It is currently occupied by a two-storey primary school building and external/playground areas.

The school is roughly square in shape with an open, landscaped centre. There is a multi-use games area (MUGA) to the rear of the school and car park to the front.

3.3 Surrounding land uses

The site is located in Heckmondwike, within a predominantly residential setting. Immediate surrounding land uses are described in Table 2.

Table 2 Surrounding land uses

North	Leeds Old Road and residential properties
East	Fairfield School, playing fields
South	Playing fields
West	Residential properties, Leeds Old Road

3.4 Development plans

The proposed layout of the new school buildings and associated areas of the site, at the time of preparing this report, is shown in **Appendix C**.

The proposed redevelopment includes construction of a single storey school building on the current MUGA and extending into the neighbouring playing field to the north east, with hardstanding playing areas and grass fields placed on the current school footprint (Identified as 'Feasibility Option 1' in the drawing in **Appendix C**). A small ecological habitat area is also to be placed in front of the proposed school.

An alternative layout option is also being considered (identified as 'Control Option 3' in the drawing in **Appendix C**). This option comprises a new development to the front (north-west) of the existing school building.

The investigation works completed and assessed in this report are largely based on 'Option 1' layout, with only limited information provided for the Control Option 3 layout.

4 PRELIMINARY GEOTECHNICAL CONSTRAINTS

4.1 Design class

BS EN 1997-1 defines three different Geotechnical Categories that structures may fall into, which are summarised as follows:

- Category 1: Small and relatively simple structures for which it is possible to ensure that the fundamental requirements will be satisfied on the basis of experience and qualitative geotechnical investigations; with negligible risk
- Category 2: Conventional types of structure and foundation with no exceptional risk or difficult ground or loading conditions
- Category 3: Structures or part of structures, which fall outside limits of Geotechnical Categories 1 and 2. Examples include very large or unusual structures; structures involving abnormal risks, or unusual or exceptionally difficult ground or loading conditions; structures in highly seismic areas; structures in areas of probable site instability or persistent ground movements that require separate investigation or special measures.

Based on the information provided above on the proposed development and in view of the anticipated ground conditions, a Geotechnical Category of Category 2 has been assumed for the purposes of designing the geotechnical investigation. This should be reviewed at all stages of the investigation and revised where necessary.

4.2 Preliminary geotechnical hazards assessment

A summary of commonly occurring geotechnical hazards associated with the anticipated geology previously outlined is given in Table 3 together with an assessment of whether the site may be affected by each of the stated hazards.

Table 3 Summary of preliminary geotechnical risks that may affect site

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Sudden lateral changes in ground conditions	☐	☒	Likely to affect ground engineering and foundation design and construction.
Shrinkable clay soils	☐	☒	Design to NHBC Standards Chapter 4 or similar.

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Highly compressible and low bearing capacity soils, (including peat and soft clay)	☐	☒	Likely to affect ground engineering and foundation design and construction.
Silt-rich soils susceptible to rapid loss of strength in wet conditions	☐	☒	Likely to affect ground engineering and foundation design and construction.
Running sand at and below water table	☐	☒	Likely to affect ground engineering and foundation design and construction.
Karstic dissolution features (including 'swallow holes' in Chalk terrain)	☐	☒	May affect ground engineering and foundation design and construction.
Evaporite dissolution features and/or subsidence	☐	☒	May affect ground engineering and foundation design and construction.
Ground subject to or at risk from landslides	☐	☒	Likely to require special stabilisation measures.
Ground subject to peri-glacial valley cambering with gulls possibly present	☐	☒	Likely to affect ground engineering and foundation design and construction.
Ground subject to or at risk from coastal or river erosion	☐	☒	Likely to require special protection/stabilisation measures.
High groundwater table (including waterlogged ground)	☐	☒	May affect temporary and permanent works.
Rising groundwater table due to diminishing abstraction in urban area	☒	☐	May affect deep foundations, basements and tunnels.
Geological faults, fissures and break lines	☒	☐	May affect ground engineering and foundation design and construction.
Underground mining including shafts and adits (e.g. coal, mineral)	☒	☐	Likely to require further assessment including potentially special stabilisation measures.
Effects of extreme temperature (e.g. cold stores or brick kilns/furnaces)	☐	☒	Likely to affect ground engineering and foundation design and construction.

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Existing sub-structures (e.g. tunnels, foundations, basements, and adjacent sub-structures)	☐	☒	Likely to affect ground engineering and foundation design and construction.
Filled and made ground (including embankments, infilled ponds and quarries)	☐	☒	Likely to affect ground engineering and foundation design and construction.
Adverse ground chemistry (including expansive slags and weathering of sulphides to sulphates)	☐	☒	May affect ground engineering and foundation design and construction.
Site topography	☐	☒	May affect ground engineering and foundation design and construction.
Note: Seismicity is not included in the above table as this is not normally a design consideration in the UK.			

5 INITIAL CONCEPTUAL SITE MODEL

In the UK land contamination is assessed using a risk-based approach taking account of the magnitude (severity of the hazard) and likelihood (probability) of occurrence. A 'receptor' is something that could be adversely affected by contamination (e.g. people, an ecological system, property or a water body). A 'pathway' is a route or means by which a receptor is or could be exposed to or affected by a contaminant. A 'contaminant source' is a hazard but it can only pose a risk to a receptor where a pathway is present. The relationship between sources, pathways and receptors are referred to as a conceptual site model. A risk can only be realised where a contaminant source, pathway and receptor are all in place, referred to as a 'pollutant or contaminant linkage'.

In line with LCRM (Environment Agency, 2021a) and BS 10175: 2011 + A2 2017 (BSI, 2017), RSK has used information in the preceding sections to identify hazards (sources of contaminants), receptors that may be impacted and plausible linking pathways. Where all three are present this is termed a potentially complete contaminant linkage and a qualitative risk estimation is made.

A desk-based assessment was completed previously by RSK (report 350555 Co Op Smithies Moor School PRA R01, dated 18/04/2023). The CSM below is based on that produced in the aforementioned PRA.

5.1 Potential soil, soil vapour and groundwater linkages

5.1.1 Potential sources of contamination

Potential sources of soil and groundwater contamination identified from current activities and the history of the site and surrounding area are presented in Table 4. Ground gas sources are addressed in the next section.

Table 4 Potential sources of soil and groundwater contamination

Potential sources	Contaminants of concern
On-site	
Localised contamination associated with former agricultural land use	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), inorganics, pH, pesticides and herbicides.
Possible made ground beneath the hardstanding and the school building	Unknown fill material but potentially including brick, ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos.
Existing and historical buildings	Asbestos containing material (ACM).
Coal seams	Methane, Carbon Dioxide, Carbon Monoxide.

Potential sources	Contaminants of concern
Off-site	
Joan Royd Colliery (historically 300m SW of site) and White Lees Colliery (historically 250m NW of site)	PAHs, heavy metals, toxic and phytotoxic metals.
Historic brick works	PAHs, total petroleum hydrocarbons (TPHs), heavy metals.
Historic chemical works	PAHs, total petroleum hydrocarbons (TPHs), heavy metals.

5.1.2 Sensitive receptors and linking exposure/ migration pathways

Sensitive receptors identified at or in the vicinity of the site that could be affected by the potential sources identified above comprise:

- current/ future site users – service users [oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres, ingestion of home-grown produce, inhalation of vapours from groundwater and / or NAPL if present*]
- current adjacent site users – residential, school [migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation*]
- current/ future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- groundwater in secondary A aquifer within The Pennine Lower Coal Measures Formation bedrock deposits [percolation through permeable strata to aquifer/ lateral migration of dissolved phase/ NAPL etc].

Potential linking pathways are show in brackets for each item above.

Please note that construction workers and future maintenance workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures according to the CDM Regulations.

5.2 Potential ground gas linkages

In this section conventional ground gas linkages are considered. For the subject site there is a recorded coal mining history and consequently the potential mine gas linkages and associated risks are presented separately in Section 5.4.

5.2.1 Ground gas generation potential

Potential ground gas sources identified for the site and surrounding are shown in Table

Table 5 Potential ground gas sources

Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information
On-site		
Made ground with low degradable organic content (up to 5% organic material and no easily degradable waste)	Very low	Colliery spoil possible.
Mine workings more than 50 years since last worked	Low/moderate	Potential to be flooded.
Off-site		
Mine workings more than 50 years since last worked	Low/moderate	Potential to be flooded.

Given the anticipated ground conditions set out above, a very low to moderate potential sources of ground gas generation which may impact the site have been identified.

5.2.2 Radon

Publicly and freely available generalised radon mapping (https://www.ukradon.org/radonmaps/) indicates that the site is situated in a radon affected area with an estimated percentage of homes exceeding the action level of 5-<10%.

As the above map provides only an indication of potential radon risk, a site specific report for the site was procured from the BGS (report reference BGS_336671/51491, dated 19 January 2024), which is presented in **Appendix E**. The BGS report indicates that the site is sited on the boundary between areas where 1-<3% and 3-<5% of homes are estimated to be at or above the action level, with the north eastern corner of the proposed development lying within the higher risk category zone.

In accordance with BRE 211 guidance (2015) and adopting a conservative approach considering the site's position on the boundary of two risk zones, the site is considered to be in Radon Class 3 and, basic protection measures are considered to be required in new developments.

5.2.3 Preferential pathways for ground gas migration

Credible preferential pathways potentially connecting the source and receptor through vertical and lateral migration are:

- faults/ fissures/ fractures in the underlying geology*
- building foundations, piled foundations and vibro-stone columns*
- construction joints and cracks within building structure
- utility routes and service penetrations into buildings

- mine workings extending vertically and laterally.

5.2.4 Sensitive receptors and linking pathways

Sensitive receptors identified at or in the vicinity of the site that could be affected by the potential ground gas sources identified above comprise:

- current/ future site users – residential users, commercial/ industrial workers* [migration and ingress of ground gases into buildings, build-up in confined spaces and explosion/ asphyxiation]
- current/ adjacent site users – residential users, commercial/ industrial workers* [migration and ingress of ground gases into buildings, build-up in confined spaces and explosion/ asphyxiation]
- current/ future buildings and services [migration and ingress of ground gases into buildings, build-up in confined spaces and explosion].

The assessment has identified receptors to include building structures and current/ future end-users.

Construction workers have not been identified as receptors for the purposes of this assessment. Risks may still be present to construction workers especially where works include the entry into excavations within the ground. Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and the use of PPE.

5.3 Preliminary risk assessment

The preliminary risk assessment findings and potentially complete contaminant linkages are shown in Table 6 overleaf. The risk classification based on the combination of hazard consequence and probability using a risk matrix from CIRIA C552 (Rudland et al., 2001), a summary of which is included in **Appendix D**. This relates to Tier 1 preliminary risk assessment in LCRM (Environment Agency, 2021a).

Table 6 Risk estimation for potentially complete contaminant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Contaminants in site soils potentially containing heavy metals, sulphates, polycyclic aromatic hydrocarbons (PAHs), hydrocarbons and asbestos	Future site users (including children, teachers, parents)	Direct contact (oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres)	Low	Medium	Moderate/low	Potential for site users to come into contact with soils if there is an absence of hardstanding or clean cover systems in place, however historical site use and surrounding uses indicates significant contamination is considered unlikely.
	Adjacent site users (residential and school)	Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation	Unlikely	Medium	Low	Potential exposure to site soils and airborne dust is possible where hardstanding or clean cover is absent. However, dust is unlikely to be generated in sufficient quantities to cause a significant risk.
	Underground potable water supply pipes	Direct contact: permeation	Unlikely	Medium	Low	Potential for permeation of water supply pipes from contaminants could create health risk. Site history and surrounding uses indicated significant organic contamination us unlikely.
Affected shallow groundwater as a result of historical or	Underground potable water supply pipes	Permeation	Unlikely	Medium	Low	The potential for the permeation of water supply pipes by contaminants in shallow groundwater could create a health risk.

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
current leaching of soil contaminants						Site history and surrounding uses indicate significant organic contamination is unlikely.
	Groundwater in Secondary A aquifer (Pennine Lower Coal Measures)	Vertical migration	Unlikely	Medium	Low	The depth to groundwater beneath site is not currently known, however the presence of clay (weathered coal measures) beneath the site will inhibit vertical migration.
Ground gases including carbon dioxide and methane derived from any made ground and mine workings beneath site	Future site users and properties	Migration and ingress of ground gases into buildings, build-up in confined spaces	Low	Severe	Moderate	If a pathway exists here there is a potential for a risk of asphyxiation (from carbon dioxide) if gas concentrations build up in confined spaces or explosion if there is a build up of methane.

Risk matrix		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Potentially complete contaminant linkages with a potential risk of moderate to low or higher identified in Table 6 comprise:

- direct contact of the potential contamination within the soils to future site users (children, teachers, parents)
- migration and build-up of ground gas within on site buildings.

These potentially complete contaminant linkages need to be assessed further through appropriate site investigation to target the identified sources of potential contamination and assess the feasibility of identified pathways.

5.4 Potential mine gas linkages

5.4.1 Potential mine gas sources

The potentially significant sources of mine gas associated with the area of the site are as follows:

- desorption of gas from coal and rocks – predominantly methane
- oxidation of coal – carbon dioxide and oxygen depletion, also methane and ethane and carbon monoxide at higher temperatures
- decomposition (aerobic) of old wood (e.g. pit props) – carbon dioxide (likely minor source)
- acidic mine water drainage reacting with carbonate in rocks around a seam or shaft or in surface mine backfill – carbon dioxide
- gases that are naturally present – radon.

5.4.2 Preferential pathways for mine gas migration to near surface

Credible preferential pathways potentially connecting mine gas sources at depth and near surface are as follows:

- unsealed shafts or adits connected to unflooded workings
- fractured rock above shallow workings
- vibro-stone column or other deep foundations, e.g. certain pile types (if present)
- deep drainage or soakaways (drainage trenches and networks may also allow shallow lateral migration
- permeable backfill to surface mines and shafts below backfill.

The geology and mining history within the vicinity of the site suggests that a source of mine gas may be present below the site associated with:

- geological strata – Pennine Lower Coal Measures
- known coal seams – Middleton Main beneath the property
- known workings –shallowest is 77m below ground level (but shallower seams are present which may have been worked)

- known mine entries – none located within the site boundary.

Drivers for gas migration that may or may not be present are as follows:

- changes in barometric pressure causes expansion or contraction of gas in mine workings
- rising groundwater pushing gas out of ground via shafts, faults or fractured rock
- thermal gradient
- climate change effects.

5.4.3 Sensitive receptors and linking pathways

Sensitive receptors identified at or in the vicinity of the site and linking pathways into buildings are as Section 5.2.44 above.

5.4.4 Mine gas risk

The following initial assessment of potential coal mine gas risk has been informed by a review of information provided in the PRA and has been undertaken in general accordance with guidance presented in 'Good Practice for Risk Assessment for Coal Mine Gas Emissions' (CL:AIRE, 2021). A summary of the decision support tool for mine gas risk assessment is provided in Table 7.

Table 7 Summary of coal mine gas risk zoning (CL:AIRE, 2021)

Mine gas risk zone	Site condition			
	Distance to nearest mine entry (shaft / adit)	Workings	Pathways	Shallow workings
Negligible	>50m from site boundary	> 150m depth	No other faults or potential pathways connecting deeper unflooded workings are identified.	Site is outside area of past or probable shallow workings on Coal Authority viewer.
Low	Mine entries >50m from site boundary	Between 30m and 150m depth and permanently flooded or covered by at least 10m of low permeability ($1x10^{-6}$ m/s hydraulic conductivity) deposits.		
Moderate	20m to 50m of site	Unflooded and between 30m and 150m depth.		

Mine gas risk zone	Site condition			
	Distance to nearest mine entry (shaft / adit)	Workings	Pathways	Shallow workings
High	On site or <20m from site boundary	<30m depth and unflooded or variable water levels.	Faults or other pathways connecting surface to deeper unflooded workings identified.	Site is within area of past or probable shallow workings on Coal Authority viewer.

Based on the evidence collected and in general accordance with the CL:AIRE Good Practice for Risk Assessment for Coal Mine Gas Emissions' guidance (2021), at this stage the site is identified to be within the Moderate risk zone due to the presence of mine entries within approximately 45m of the site boundary.

Given the possibility of probable unrecorded shallow coal workings being present beneath the site, the site may be considered to lie within a moderate/high risk zone and a detailed mine gas risk assessment may be required.

5.5 Data gaps and uncertainties

Key data gaps and uncertainties identified in the CSM at desk study stage include:

- there are no previous contamination investigations available for the site, therefore no information on actual concentrations of contaminants in soil and groundwater or ground gas at this stage
- groundwater depth and flow direction are conceptual at this stage
- mine workings have been identified below the site but the extent of these and potential for these to be permanently flooded and for connecting pathways is not known.

6 SITE INVESTIGATION STRATEGY & METHODOLOGY

6.1 Introduction

RSK carried out intrusive investigation works and subsequent monitoring of boreholes between October 2023 and December 2023.

6.2 Objectives

The specific objectives of the investigation were as follows:

- to establish the ground conditions underlying the site including the extent and thickness of any made ground
- to investigate specific potential sources of contamination identified in initial CSM
- to determine the ground gas regime underlying the site
- to assess geotechnical properties of soils
- to address data gaps identified in Section 5.5
- to investigate possible historical shallow coal mining and identify any shallow coal seams and their thickness and confirm or deny the presence of voids and workings.

6.3 Selection of investigation methods

The techniques adopted for the investigation were chosen with consideration of the objectives and site constraints, which are described below.

All locations were hand dug to a depth of 1.20m in accordance with RSK Health and Safety measures to avoid buried services. Six locations were selected for shallow borehole drilling (to depths of between 2.23m and 5.50m and all terminated on obstructions in bedrock) using window sampling methods (NB only five of these were completed and at the sixth (WS06) only a hand dug pit was excavated). At a further five locations a combination of open hole and rotary core drilling with water flush was used to investigate bedrock to depths of between 20m and 34m. The boreholes were targeted to; investigate the potential historical mining of shallow coal seams and associated risks; obtain geotechnical data; provide additional information on ground conditions; and to allow collection of soil and water samples and allow ground gas monitoring.

The rotary drilling work was carried out in accordance with a Coal Authority Permit which was obtained for the works (NB this required rotary drilling using water flush circulation methods). The window sampling drilling was used to gather shallow disturbed and environmental soil samples for inspection and laboratory testing, to perform in-situ geotechnical testing, to install monitoring wells, and to provide further coverage across the site to investigate the extent of any made ground.

In-situ Mexe Cone testing was undertaken at various depths within the inspection pits (WS02-WS05) to obtain California Bearing Ratio (CBR) values. These tests were

completed to gather indicative CBR data only and were not conducted at formation level. A summary of the results can be found in section 11.4 and is detailed on the exploratory logs in **Appendix F.**

Prior to conducting intrusive works, utility service plans were obtained and buried service clearance undertaken in line with RSK's health and safety procedures. Copies of statutory service records obtained by RSK as part of the agreed scope of works are contained in **Appendix E**.

6.4 Investigation strategy

The ground investigation was carried out using intrusive ground investigation techniques in general accordance with the recommendations of BS5930:2015+A1:2020, which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. Whilst every attempt was made to record full details of the strata encountered in the boreholes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

The investigation strategy involved targeted boreholes. The investigation comprised an exploratory investigation, focussing on the area underlying the proposed new layout (Option 1) for the school. Two investigation locations were completed to the north west of the existing school building to provide limited ground condition information for the alternative development layout (Option 3).

Details of the investigation locations, installations and rationale are presented in Table 8. Five rotary boreholes were drilled to depths of between 20m and 34m bgl, with 2 boreholes installed with combined gas and groundwater monitoring wells and 3 boreholes backfilled with bentonite cement. Five window (dynamic) sampling boreholes were drilled to a maximum depth of 5.30m bgl (WS06 did not progress beyond the inspection pit at 1.20m). Four were installed with a combined gas and groundwater monitoring well. An exploratory hole location plan is shown as **Figure 2.**

Table 8 Exploratory hole and monitoring well location rationale

Investigation type	Number	Designation	Monitoring well installation	Rationale
Boreholes by rotary methods	5	R01 to R05	Gas/ groundwater wells installed in R01 and R03	To prove the geological succession beneath the site, search for coal seams and any evidence of workings (such as voids or broken ground).
Boreholes by dynamic/ windowless sampling methods	6	WS01 to WS06	Gas/ groundwater wells installed in WS01, WS02, WS04 and WS05	To determine the contamination status of the ground beneath the site and to install additional dual-purpose groundwater and gas monitoring wells.

6.4.1 Implementation of investigation works

The site investigation works were carried out in general accordance with the UK Specification for Ground Investigation (UKSGI), third edition (AGS, 2022).

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS5930:2015+A1:2020 (which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1).

The monitoring well construction and associated response zones are detailed on the exploratory hole records in **Appendix K.** The response zones were installed to target identified migration pathways detailed in the initial preliminary CSM. Monitoring wells were constructed of plain and slotted 50mm HDPE pipes with a bentonite seal beneath the response zone, a granular annulus around the response zone, a bentonite seal above this annulus capped with a concrete seal around the cover.

The soil sampling and analysis strategy was designed to characterise each encountered soil strata, permit an assessment of the potential contaminant linkages identified and investigate the geotechnical characteristics. In addition, samples were taken to allow for geo-environmental and geotechnical testing to be undertaken.

Soils collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite required. They were dispatched to the laboratory in cool boxes under chain of custody documentation. Samples were stored in accordance with the RSK quality procedures to maintain sample integrity and preservation and to minimise the chance of cross contamination.

6.5 Monitoring programme

6.5.1 Ground gas monitoring

In line with the initial CSM, response zones were installed to target the sources or pathways as detailed inTable 6. Dual gas taps were installed in line with BS8576 at depths of at least 0.50m above the ground water level recorded on the date the gas taps were installed.

Six monitoring rounds have been undertaken to provide data to support refining of the CSM. These were undertaken on the following dates:

- monitoring round 1 – 21/11/2023
- monitoring round 2 – 29/11/2023
- monitoring round 3 - 06/12/2023
- monitoring round 4 – 20/12/2023
- monitoring round 5 – 11/01/2024
- monitoring round 6 – 22/01/2024.

A calibrated infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million.

Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

The atmospheric pressure before and during monitoring, together with the weather conditions, were recorded. The monitoring included periods of falling atmospheric pressures and after/during rainfall.

All ground gas monitoring results together with the temporal conditions are contained within **Appendix G**. Equipment calibration certificates are available on request.

6.6 Laboratory testing

Laboratory testing was undertaken at a UKAS accredited laboratory with ISO17025 and MCERTS accredited test methods were specified where applicable for contamination testing and as shown in the laboratory test certificates appended.

6.6.1 Chemical analysis of soil samples

The soil sampling strategy was designed to characterise made ground and/or natural strata typically within the upper 1m of the ground profile whilst also characterising deeper strata and the potential for contaminant migration from relevant sources of identified within the preliminary CSM.

The programme of chemical tests undertaken on soil samples obtained from the intrusive investigation is presented in **Table 9** with the laboratory testing results contained in Appendix H**.**

Table 9 Summary of chemical testing of soil samples

Analysis	No. of tests		
	Topsoil	**Made Ground**	**Cohesive materials (weathered bedrock)**
Asbestos in Soils	3	1	1
TPH CWG in BTEX	3	1	1
BRE suite D Brownfield Site (pyrite present) + dependencies if required	2	1	3
Speciated 16 USEPA PAH's	3	1	1
Metals 9 Suite and pH	3	1	1
TOC	1	1	1
Chromium hexavalent CrVI	3	1	1
Cyanide (free)	3	1	1

6.6.2 Geotechnical analysis of soils

Where appropriate disturbed, bulk and undisturbed soil samples were taken for geotechnical classification testing with the depth and nature of samples detailed within the exploratory hole records.

Where appropriate, testing was undertaken in accordance with BS 1377:1990 Method of Tests for Soils for Civil Engineering Purposes or, where superseded, by the relevant part of BS EN ISO 17892:2014 Geotechnical investigation and testing - Laboratory Testing of Soil. Tests carried out in order to classify the concrete class required on-site have been undertaken following the procedures within BRE SD1:2005.

The programme of geotechnical tests undertaken on samples obtained from the intrusive investigation is presented in **Table 10**. The results are shown in **Appendix I**.

Table 10 Summary of geotechnical testing undertaken

Strata	Tests undertaken	No. of tests
Weathered Pennine Lower Coal Measures and Pennine Lower Coal Measures	Moisture content %	10
	Liquid/ plastic limits	10
Weathered Pennine Lower Coal Measures	Particle size determination (sieve and pipette analysis)	2
	Unconsolidated undrained (UU) triaxial test	1
	Consolidation test (one-dimensional)	1
Pennine Lower Coal Measures	Uniaxial compression (UCS) test	3
	Point load test	3

7 SITE INVESTIGATION FACTUAL FINDINGS

The results of the intrusive investigation and subsequent geo-environmental and geotechnical laboratory analysis undertaken are detailed below.

7.1 Ground conditions encountered

The descriptions of the strata encountered, notes regarding visual or olfactory evidence of contamination, list of samples taken, field observations of soil and groundwater, in-situ testing and details of monitoring well installations are included on the exploratory hole records presented in Appendix F.

BGS borehole records indicate workings beneath the proposed school building (SE22SW1177 “borehole 6”) with recorded workings at more shallow depth outside the site boundary to the south-west. The Coal Authority Interactive Viewer indicates that mine entry 422424-005 to the east of the site was recorded at a depth of 22m. With a dip of 2.9 degrees to the east, then the seam this shaft was sunk to would be expected to be at a shallower depth beneath the site.

The exploratory holes from the present investigation revealed that the site is underlain by a thin layer of made ground directly overlying the Pennie Lower Coal Measures. This bedrock unit has been weathered in the upper horizons to a cohesive soil with more competent mudstone, siltstone and coal encountered at depth. This appears to confirm the stratigraphical succession described within the preliminary CSM.

The ground conditions encountered during the fieldworks are summarised in Table 11 with the strata discussed in subsequent subsections. Site photographs can be found in **Appendix J.** Schematic cross sections can be seen in **Figures 3** and **Figure 4.**

Table 11 General succession of strata encountered

Stratum	Exploratory holes encountered	Depth to top of stratum m bgl	Proven thickness (m)
Topsoil	R01, R03, R05 WS01, WS04-WS05	Ground level	0.30m
Made ground	R01-R05, WS01-WS06 (All)	0.10m	0.80m
Cohesive soils (weathered Pennine Lower Coal Measures)	All	0.70m	0.50-3.60m
Coal (Pennine Lower Coal Measures)	R01-R05, WS01-WS03, WS05	1.50m	0.10-1.20m
Siltstone (Pennine Lower Coal Measures)	R01-R05, WS01-WS05	3.20m	13-20m.

Stratum	Exploratory holes encountered	Depth to top of stratum m bgl	Proven thickness (m)
Coal (Pennine Lower Coal Measures)	R01-R04	15.90m	0.70-1.70m
Mudstone (Pennine Lower Coal Measures)	R01-R05	17.60m	13m

7.1.1 Topsoil

Topsoil was found in areas of soft standing and comprised a cohesive soil with varying sand content, gravel of natural lithologies, and rootlets. In WS01, the gravel also consisted of coal fragments. The thickness of this unit ranged from 0.20m-0.30m.

7.1.2 Made ground

The made ground generally comprised a granular soil with gravels of various natural lithologies, brick and concrete within a cohesive matrix and ranged in thickness from 0.20m to 0.80m. Asphalt is present at surface in the areas of hard standing and is underlain by an engineered gravel sub-base underlain by a geo-mesh membrane.

7.1.3 Cohesive soils (weathered Pennine Lower Coal Measures)

This stratum, which is inferred to be the weathered upper horizon of the Pennine Lower Coal Measure unit, was encountered from beneath the made ground or topsoil and comprised a layer of soft to firm clay between 0.40m and 3.60m in thickness. Based on the in-situ and laboratory test data this layer has high moisture content and as such is likely to be compressible.

A summary of the in-situ and laboratory test results recorded in the stratum are presented in Table 12.

Table 12 Summary of in-situ and laboratory test results for cohesive unit

Soil parameters	Min. Value	Max. Value	Reference
Moisture content (%)	14	44.30	Appendix I
Modified moisture content (%)	4.20	33.70	
Liquid limit (%)	59	72	
Plasticity limit (%)	28	40	
Plasticity index (%)	22	40	
Modified plasticity index (%)	16.70	34.30	
Plasticity term	High	Very high	
Volume change potential	Low	High	
SPT ‘N’ values (dimensionless units)	4	34 for 70mm	

Soil parameters	Min. Value	Max. Value	Reference
Undrained shear strength inferred from SPT 'N' values (kN/m^2)*	18	149	Appendix F
Undrained shear strength measured by shear vane testing (kN/m^2)	37	>110	
California Bearing Ratio measured by MexeCone testing (%)	4	6	
Undrained shear strength measured by triaxial testing (kN/m^2)	32	n/a	**Appendix I**
Consistency term from field description	Soft	Firm	**Appendix F**
Strength term (inferred from Triaxial testing)	Low	n/a	**Appendix I**
Density term	n/a	n/a	**Appendix F**
Notes: *derived using a Stroud Factor of 4.5 -4.9.			

7.1.4 Bedrock unit – Pennine Lower Coal Measures

This stratum of mudstone, coal and siltstone was encountered at a depth of between 2.20m and 5.50m below ground level and was proven to a thickness of up to 30m (the full depth of investigation). Site descriptions and laboratory and in-situ tests carried out on samples from this layer indicate that the strength of the rock ranged from very weak to moderately strong.

A summary of the in-situ and laboratory test results recorded in the stratum are presented in Table 3.

Table 13 Summary of in-situ and laboratory test results for Bedrock unit

Rock parameters	Min. Value	Max. Value	Reference
Water content (%)	3.70	6.20	**Appendix F** **Appendix I**
Point Load Index (Axial tests) ($I_{s(50)}$) (MN/m^2)	0.22 (1.76)^	0.82 (6.56)*^	
Point Load Index (Diametral tests) ($I_{s(50)}$) (MN/m^2)	0.35 (2.8)^	0.39 (3.12)^	
Uniaxial compressive strength (MPa)	1	37.20	
SPT 'N' values	50		**Appendix F**
Strength term from rock logging	Very Weak	Moderately Weak to moderately strong	**Appendix I**
Notes: *derived using a Stroud Factor of 5.5 (assumed).			
*** Irregular Axial** **^In brackets the UCS value using a conversion value of 8**			

7.1.5 Visual/olfactory evidence of soil contamination

There was no visual or olfactory evidence of contamination found at any of the locations.

7.2 Investigation of shallow coal seams

During the investigation, five boreholes (R01-R05) were drilled to investigate potential shallow coal seams and unrecorded shallow workings.

The descriptions of the strata encountered, field observations of soil and groundwater, are included on the exploratory hole records provided in **Appendix F**. Due to the nature of the drilling technique (i.e. predominantly rotary open hole), the strata descriptions are based on limited arisings and are of a general nature only, except when supplemented by core samples, where available.

A summary of the findings (presence of coal seams) of these boreholes are presented in Table 14 below.

Table 14 Shallow coal seams and potential workings

Borehole	Coal from (m)	Coal to (m)	Coal thickness (m)	Rock cover thickness (m)	Comments
R01	2.20 25.50	3 25.50	0.80 unknown	none 22.50	The uppermost coal seam was recovered at subcrop level, as weathered material, with no rock cover above. It was intact, but fractured, and recovered largely as gravel. At 25.50m depth the drill hit what sounded like a metallic structure and refused to advance. This obstruction appears to represent an in situ historic underground coal mining feature (NB there was no flush returns from drilling below 16m).
R02	4.60	5	0.40	1.50	This coal seam was found to be intact, but fractured, and recovered largely as gravel.
R03	3.20 15.90	4.40 17.60	1.20 1.70	0.30 13	The uppermost coal seam was recovered close to subcrop level with a thin cover of weak rock above. It was intact but comprised weak and weathered material in part recovered as a soft clay. The lower seam was also intact with no evidence of workings. The two seams recorded were of significant thickness and both

Borehole	Coal from (m)	Coal to (m)	Coal thickness (m)	Rock cover thickness (m)	Comments
					had insufficient rock cover thickness above if worked (i.e. rock cover less than ten times the coal seam thickness).
R04	4 20.90	5.20 21.90	1.20 1	0.90 17.80	The uppermost coal seam was recovered close to subcrop level with a thin cover of weak rock above. It was intact but comprised weak and weathered material. The lower seam was also intact with no evidence of workings (there were no flush returns below 21.90m). The two seams recorded were of significant thickness the uppermost had insufficient rock cover thickness above if worked (i.e. rock cover less than ten times the coal seam thickness).
R05	2.60 17 32.20	3.70 17.70 32.70	1.10 0.70 0.50	none 11.50 26.70	The uppermost coal seam was recovered at subcrop level, as weathered material, with no rock cover above. It was intact, but fractured, and recovered as gravel fragments and soft clay. The second and third coal seams appeared to be intact (there was no flush returns from drilling below 16m). The three seams recorded were of significant thickness, the uppermost had insufficient rock cover thickness above if worked (i.e. rock cover less than ten times the coal seam thickness).

The borehole locations are shown in **Figure 2.**

The current investigation recorded intact coal seams of significant and certainly workable thickness at shallow depth. At most locations a shallow seam was present close to or just below bedrock level (subcrop). A second seam was recorded at most locations, some 11m to 15m below the first and a third seam was recorded at one location (R05). The two most shallow seams had relatively little rock cover above them, which at most locations, would be considered insufficient to ensure ground surface stability if the seams had been worked underground. Although there was no direct evidence of workings in these new boreholes (such as voids, broken ground or distinct backfill) in R01 a metallic obstruction

was encountered at a depth of 25.5m, which can only reasonably be explained as an in situ coal mining feature. In addition, the earlier investigation works (see BGS boreholes discussed in Section 8.2) recorded workings both beneath the area of the present school building and in the surrounding area.

7.2.1 Drilling observations

Observations made during drilling are presented below in Table 15. These include instances when the drilling flush medium (water) was lost or the returns notably reduced (potentially indicating the presence of bedrock fracturing or possibly broken ground). These are shown on the schematic cross sections of **Figure 3** and **Figure 4**.

Table 15 Summary of drilling observations

Borehole location	Depth from, m (strata)	Flush returns (%)	Comments
R01	14.50 (mudstone)	0	Casing installed to 10.50m. Flush did not return.
	25.50 (mudstone)	N/A	Drilling terminated due to refusal on suspected in situ metal obstruction.
R02	16.40 (mudstone)	0	Flush did not return from 16.40m and hole was terminated at 20m.
R03	-	100	No loss of flush observed.
R04	3.20 – 4.20 (weathered Pennine Lower Coal Measures)	N/A	Rapid increase in drilling rate noted – very soft ground (drilling rods dropped under their own weight).
	15.50 (mudstone)	0	-
	18.90 (mudstone)	25	Casing installed to 20m.
	21.90 (base of coal seam)	0	No flush returns from below this depth.
R05	16 (mudstone)	0	No flush returns from below this depth.

Due to the obstruction at a depth of 25.50m bgl in R01 (located to the north west of the existing school building) drilling of this borehole was abandoned. The obstruction is considered most likely to be an indication of historic underground coal mining.

7.3 Groundwater and surface water

7.3.1 Groundwater encountered during intrusive works

Reliable groundwater observations were not possible during drilling of the rotary boreholes owing to the use of water as a drilling flush medium. Groundwater depths recorded at the start of each day are reported on the borehole hole logs, where applicable.

7.3.2 Groundwater encountered during gas monitoring

Resting groundwater levels recorded during the monitoring programme are summarised in Table 36 based on the data provided in Appendix G.

Table 36 Summary of groundwater levels encountered during monitoring

Monitoring well	Response zone stratum	TOC elevation (m AOD)	Depth to water (mb TOC)	Product thickness (m)	Groundwater elevation (m AOD) – min.	Groundwater elevation (m AOD) – max.	Dipped depth to base (m)	Install Depth (m)
R01	Bedrock	126.11	8.58-12.88	N/A	113.23	117.53	13.69	14
R03	Bedrock	125.78	4.81-5.90	N/A	119.88	120.97	6.64	8
WS01	Cohesive soil	126.50	0.84-1.08	N/A	125.42	125.66	1.08	1
WS02	Cohesive soil	126.70	1.95-2.98	N/A	123.72	124.75	3.82	4
WS04	Cohesive soil	125.87	1.36-1.50	N/A	124.37	124.51	1.61	1.50
WS05	Cohesive soil	125.59	1.33-2.15	N/A	123.44	124.26	2.15	2

The groundwater elevation data obtained from those monitoring wells installed in the window sample boreholes appear to indicate the possible presence of groundwater within the cohesive soils at elevations ranging from 123.44m to 125.66m AOD (0.84m to 2.15m bgl).

It is not possible to determine whether a deeper groundwater body exists within the bedrock unit based on the available data from the two wells installed in the deeper rotary boreholes.

It should be noted that groundwater levels might fluctuate for a number of reasons including seasonal variations. On-going monitoring would be required to establish both the full range of conditions and any trends in groundwater levels.

7.3.3 Visual/olfactory evidence of groundwater contamination

There was no evidence of visual/olfactory contamination in the groundwater during monitoring.

7.4 Chemical laboratory testing and results

Where appropriate, environmental samples were taken for chemical classification, with the depth and nature of the samples detailed within the exploratory hole record. Testing was completed by a UKAS accredited laboratory as detailed in Table 9.

The soil testing results are presented in **Appendix H**.

7.5 Geotechnical laboratory testing and results

At the discretion of the site engineer disturbed soil samples, as well as rock core samples were taken for geotechnical classification and rock testing respectively, with the depth and nature of samples detailed within the exploratory hole record.

Where appropriate, testing was undertaken in accordance with BS 1377:1990 Method of Tests for Soils for Civil Engineering Purposes or, where superseded, by the relevant part of BS EN ISO 17892:2014 Geotechnical investigation and testing - Laboratory Testing of Soil. Tests carried out in order to classify the concrete class required on-site have been undertaken following the procedures within BRE SD1:2005.

The programme of geotechnical tests undertaken on samples obtained from the intrusive investigation is presented in Table 10.

The results of the geotechnical testing are presented in **Appendix I.**

7.6 Ground gas monitoring

The results of the ground gas monitoring and testing carried out are given in **Appendix G** and discussed in Section 9.

8 COAL MINING RISK ASSESSMENT

8.1 Introduction

RSK were commissioned to complete an updated CMRA of the Co-op Academy Smithies Moor site, based on the revised site area (including an additional land parcel to the northeast of the current school grounds) and the findings of the new (presently reported) investigation works carried out within the two option areas proposed for the new school building.

The site is situated within an area defined by the Coal Authority as a Coal Mining Development High Risk Area. The Coal Authority, in common with other statutory consultees, utilises a risk-based approach for the advice that they offer on proposed developments in relation to coal mining legacy issues. It is a requirement for High Risk areas to prepare a desk-based CMRA to support planning applications.

Guidance from the Coal Authority outlines the assessment stages required for a CMRA. Firstly, it needs to consider a number of sources of information to determine coal mining issues relevant to a site. It then needs to identify and assess the site-specific coal mining risks and propose an appropriate mitigation strategy (if required) relevant for the proposed site end-use. This approach has been followed in the current assessment, as set out in the following sections of this report:

Stage 1 - Sources of information

- earlier sections of this report (Section 2.4 Existing reports and Section 3 Site details) provide general background information for the site
- Sections 8.2 to 8.6 below presents available desk-based information in relation to coal mining.

Stage 2 - Assessment of site-specific coal mining risks

- Section 8.7 presents an assessment of the site-specific coal mining risks
- Section 8.8 presents a brief summary of these risks.

Stage 3 – Proposed mitigation strategy

- Section 8.9 presents the required mitigation measures to address the identified risks.

8.2 Information sources

A review of available information has been undertaken to assess coal mining activities and legacy issues for the site and to ascertain their influence on the proposed site redevelopment. The following sources of information have been used within the review:

- Preliminary Risk Assessment, RSK report 3505550R01(00), November 2022 containing historical Ordnance Survey mapping (1854-2022) available within a site-specific Environmental database report (Envirocheck report, reference 302714435_1_1, dated 17 October 2022 NB: this report does not encompass the Kirklees Council land parcel to the north east, although the area is included within the Envirocheck data presented in **Appendix O**)

- SWECO Coal Mining Risk Assessment report (SWECO, 27 February 2023, report reference 65208318-SWE-XX-XX-T-GE-0001-C01. (NB: this report does not encompass the Kirklees Council land parcel to the north east)
- Coal Authority Consultants Mining Report, The Coal Authority, reference 51003376126001, dated 4 September 2023 (presented in **Appendix K**)
- Selected British Geological Society borehole logs (provided in **Appendix K**)
- Abandonment plans for Middleton Main Workings, Joan Royd Colliery, obtained from the Coal Authority Mining Records Office (shown in **Appendix K**), dated 1899
- Coal Authority interactive viewer: **https://mapapps2.bgs.ac.uk/coalauthority/home.html**.
- findings from the RSK site investigation, October 2023, described in Section 7.2 of this report.

8.3 Geological records

Geological records for the area and available historical borehole logs (British Geological Survey (BGS) data available online, accessed August 2023) indicate the geology of the site to be as detailed in Table 17.

Table 17 Site geology

Strata	Description	Estimated thickness	Permeability
Made ground	Not shown on BGS mapping, but likely to be present in the form of material placed or deposited during human activity and/or earlier development phases of the site.	Unknown	Variable
Pennine Lower Coal Measures	Mudstone, siltstone and sandstone with coal seams present across most of the northern and central parts of the site, with some faulting evident.	500m +	Secondary A aquifer

8.3.1 Geology maps

The following BGS maps were reviewed as part of the CMRA:

- map sheet SE 22 SW solid and drift edition, 1:10,000 scale, dated 1999
- map sheet SE 22 NW solid and drift edition, 1:10,000 scale, dated 1999.

These maps provide the following information:

Made ground

Whilst none is shown on site, the 1:10,000 SE22 SE map indicates the presence of made ground to the immediate south of the site (described by the map legend as ‘mainly sandstone quarries and railway cuttings’). The mapped extent of made ground off site roughly equates to an area of woodland present to the south of the site and is likely to be

associated with historic quarrying. It is worth noting that the historical mapping provided in the RSK PRA did not show evidence of quarrying to the immediate south of the site.

Superficial Deposits

BGS mapping indicates that superficial deposits are not present within the site boundary or in the immediately surrounding area.

Solid Geology

The BGS data indicate that the site is underlain by bedrock of the Pennine Lower Coal Measures, which comprise mudstone, siltstone, sandstone, and coal. There are no geological faults shown on the site and there is no clear indication of the dip of the geological units shown on the maps that have been reviewed.

Coal Geology

Coal seams are not shown to subcrop beneath the site. There is some uncertainty / inconsistency in the identification of a coal seam shown on BGS map sheets SE22 SE and SE22 NW, but it is thought that the Flockton Thick Coal seam subcrops close to the site's western boundary. It is therefore considered likely that this seam will potentially be present beneath the site at shallow depth (if a gentle easterly dip direction, as indicated in the Coal Authority records below, is assumed).

8.3.2 BGS historical borehole data

There are three publicly available BGS records for historical boreholes that were completed within the confines of the site, copies of which are presented in **Appendix K**.

Each of the three records includes a borehole log, a site plan showing borehole locations and a cross section including six boreholes (although detailed borehole records are only included for three locations the lithologies are distinct on the cross section for all six boreholes). Data provided from these is summarised below:

- borehole reference SE22SW1175 (named "Borehole No.4"), located beneath the central part of the existing school building, was drilled in 1962 by cable percussive and rotary means to a depth of 19.80m below ground level (bgl). Superficial deposits comprising topsoil and clay were recorded to a depth of 2.10m bgl which were underlain by bedrock comprising shale, mudstone and sandstone with coal. A "black shale and coal" layer was recorded between depths of 2.90m and 3.45m (ground surface 125.60m OD). 'Old Workings' of coal were recorded at a thickness of 0.40m between depths of 17.10m and 17.50m. [NB the ground surface level in the area at the time of drilling these three borehole locations was between 125.40m and 125.90m OD.]
- borehole reference SE22SW1176 (named "Borehole No.5"), located beneath the existing school building, was drilled in 1962 by cable percussive and rotary means to a depth of 19.80m below ground level (bgl). Ground conditions were observed to be generally similar to SE22SW1175. The very shallow coal was not recorded, however "Fireclay and Coal" (not indicated to have been worked) was recorded at a thickness of 0.60m between depths of 16.90m and 17.50m
- borehole reference SE22SW1177 (named "Borehole No.6"), located slightly to the southeast of the other two boreholes and beneath the existing school building, was

also drilled in 1962 by cable percussive and rotary means to a depth of 19.80m below ground level (bgl). Ground conditions were observed to be generally similar to the above records. An “ironstone, coal, fireclay” layer was recorded between depths of 3.40m and 4m (ground surface 125.90m OD). “Old Workings (coal shale no cavity)” were recorded at a thickness of 1.10m between depths of 17.35m and 18.45m.

The records of three further boreholes (“Boreholes No. 7, No. 8, and No. 9”) are evident on the cross sections (of the on-site boreholes described above). These boreholes all lie close together but outside the school building footprint but appear to lie approximately 40m to the southwest (NB there is some uncertainty over Grid references hand annotated on these records). The boreholes were drilled to a range of depths, one was to too shallow a depth to intercept the coal seams but the other two intercepted the shallow coal seam or evidence of workings as follows:

- “Borehole No. 7” recorded “Old workings”, which were 1.40m in thickness between depths of 6.90m and 8.30m (NB the ground surface in this area was significantly higher than at the previous borehole locations at 129.70m OD)
- “Borehole No. 8” recorded “Shaley coal and coal”, which was 1.40m in thickness between depths of 7.10m and 8.50m (NB the ground surface in this area was significantly higher than at the previous borehole locations at 129.50m OD).

This series of boreholes drilled in the vicinity of the site in 1962 included three further boreholes (“Boreholes No. 1, No. 2, and No. 3”) located outside the building footprint approximately 30m to the northeast (again there is some uncertainty over their exact position) but the three boreholes are closely spaced. Pertinent information from these include:

- borehole reference SE22NW687 (named “Borehole No.1”), was drilled in 1962 by cable percussive and rotary means to a depth of 19.80m. Superficial deposits comprising topsoil and clay were recorded to a depth of 2.10m which were underlain by bedrock comprising shale, mudstone and sandstone. “Old Workings of coal” were recorded at a thickness of 0.40m at depths between 17.10m and 17.50m
- borehole reference SE22SW1173 (named “Borehole No 2”), was only drilled to a depth of 3m within superficial deposits
- borehole reference SE22SW1174 (named “Borehole No 3’”, was drilled in 1962 by cable percussive and rotary means to a depth of 19.80m below ground level (bgl). Superficial deposits comprising topsoil and clay were recorded to a depth of 3m which were underlain by bedrock comprising shale, mudstone and sandstone. A layer of “Coal shale” 0.60m in thickness was recorded between 18.75m and 19.35m depth.

8.4 Site history

The site history based on information from historical Ordnance Survey maps is presented in full in the RSK PRA and is summarised in this section.

8.4.1 Summary of historical development on site

Historical maps indicate the site to be undeveloped agricultural land in 1854. Between 1956-1967 the secondary school building was constructed, with no significant changes to

the building area or shape to the present day. Information provided in the RSK PRA report states that the school was originally built as a secondary school between 1961-1970 and the site is annotated as 'Heckmondwike County Secondary School' on the 1956 map. Maps from this period show some re-levelling of the site topography associated with the development of the school building and playing fields.

8.4.2 Summary of historical development off site

Historical maps from 1894 indicate a chemical works (disused) approximately 50m away from the south west site boundary. The 1894 map also includes an annotation for a "coal pit" approximately 100m to the south west of the site (which is not shown on subsequent maps). Joan Royd Colliery is shown to be approximately 300m south-west of site and White Lee Colliery 260m north-west of site. The 1922 map indicates the presence of two shafts at the White Lea Colliery site, which is labelled as "disused" on the 1956 map. No shafts are apparent at the Joan Royd Colliery site, which is not shown in the maps from 1997.

In 1907-1908 two shafts are shown approximately 80m east of site near to an annotation for "Mount Pleasant". A brick works is shown approximately 150m to the east of the site. Neither of these features are shown on the subsequent 1922 map.

Residential properties are shown approximately 20m north-west of the site from 1938. Between 1956-1978 a garage (current Whitehall Service Station) is shown approximately 60m to the north-west of site.

In summary, the key features relating to coal mining that have been identified from historical maps are:

- no apparent coal shafts situated within or immediately adjacent to the site boundary
- two shafts approximately 80m to the east between 1907 and 1922
- former collieries, 300m south-west and 260m north-west of site.

8.5 Coal Authority records

8.5.1 Consultants report

A Coal Authority consultants report (CACR) for the full site boundary has been obtained as part of this CMRA and is included in **Appendix K**.

The key findings from the Coal Authority report are detailed below:

- the site is in an area with records of underground mining, with the last year of working the various seams ranging from 1889 to 1934. Worked coal seams are recorded beneath the site at depths ranging from 77m to 278m bgl. Details of the seams are as follows:
    - Middleton Main seam, extracted from beneath the site at a depth of 77m, last worked in 1889. The extraction thickness is given as 0.60m with an easterly dip angle of 1.60 degrees

- Whinmoor seam, extracted from beneath the property at depths ranging from 199m to 202m, last worked in 1934. Extraction thickness given as 0.51m or 0.69m with a dip angle of 1.6 degrees to the southeast
- Black Bed seam, extracted from beneath the property at depths ranging from 271m to 274m, last worked in 1914. Extraction thickness is given as 2.40m. Seam dips to the east at an angle of 2.40 degrees

- the CACR indicates that the above seams and others (including the Low Fenton) were also worked off-site (distances are not provided). None were recorded to have been worked at a depth shallower than 87m
- the CACR indicates that unrecorded shallow workings (within 30m of the ground surface) are probable
- no mine spine roadways have been recorded at shallow depth
- there are no mine shafts located within the site boundary
- there are five mine shafts located in the vicinity of the site
- geological faults are not present on the site
- there are no recorded opencast mines on-site or within 500m of the boundary
- there are no Coal Authority managed tips within 500m of the site
- there is no current underground mining within the site area
- no notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence
- there are no recorded plans for future underground mining.

8.5.2 Coal Authority plans and information

Additional information provided by the Coal Authority is discussed in further detail in the following sections.

8.5.2.1 Mine entry data

Five mine shafts are present within the vicinity of the site as detailed in the Coal Authority information. The available information is summarised in Table 18.

Table 18 Summary of Coal Authority mine shaft data

Shaft CA reference and National Grid reference	Location (distance from boundary)	Comments
421424-020 421966 424850	Off-site, approximately 110m SW	No information on construction and no record of treatment provided. Located on verge of woodland to the SW of a playing field and close to a residential property on Priestley Avenue. Approximates to the 'coal pit' annotated on the 1854 historical OS map.

Shaft CA reference and National Grid reference	Location (distance from boundary)	Comments
422424-004 422197 424975	Off-site, approximately 45m NE	No information on construction and no record of treatment provided. Situated within the car parking area of Fairfield School and position approximate to the two shafts noted on historical maps between 1907-08.
422424-005 422238 424965	Off-site, approximately 80m NE	No record of treatment but the shaft is recorded to be at a depth of 22m bgl. Situated within the car parking area of Fairfield School and positioned close the two shafts noted on historical maps between 1907-08.
422424-020 422157 424846	Off-site, approximately 50m S-SW	No information on construction and no record of treatment. Situated in playing fields.
422424-023 422035 424861	Off-site, approximately 60m SE	No information on construction and no record of treatment. Situated within wooded area next to playing fields.

8.5.2.2 Abandonment mine plans, Middleton Main Seam, Joan Royd Colliery

The Coal Authority completed a search of the abandoned mine plans records, and identified two plans beneath the site that relates to workings within the Middleton Main coal seam from the Joan Royd Colliery. These plans are provided in **Appendix K** and **Figures 5** and **Figure 6** show the abandonment plans with the site boundary overlain.

The abandonment plan referenced **GCR153_999999_** shows the years in which areas of the colliery were worked, as well as a schematic of the pillar and stall workings and potential adits constructed by the Joan Royd Colliery. No depths to workings are indicated on the plans.

The abandonment plan referenced **10348_999999_2OF2,** dated 1889, shows pillar and stall workings (red) extending from the Joan Royd Colliery east in the direction of the site, with potential adits extending from the far eastern end of the pillar and stall workings underneath the site. The location of faults and the direction of throw, as well as the scale of the fault, are also marked on the plans. Again, no depths to workings are indicated on the plans.

It should be noted that abandonment plans present the extent of workings at specific survey dates and workings beyond these limits may have been carried out at other times.

8.6 Relevant findings from the RSK investigation

The results of the investigation of shallow coal seams carried out as part of the present RSK drilling investigation are presented in full in Section 7.2 above. The key findings are summarised below:

- the investigation recorded intact coal seams of significant and certainly workable thickness at shallow depth
- a very shallow intact coal seam was recorded at or just below bedrock subcrop level. This recorded a thickness of up to 1.20m and had very little, if any, competent bedrock cover above
- a second underlying and intact seam was recorded at a number of locations, lying typically 11m to 15m below the first seam. This was up to 1.70m in thickness and had a variable thickness of rock cover (at some boreholes the cover exceeded ten times the seam thickness but this was absent at other locations)
- an apparent metallic obstruction was encountered in R01 at 25.50m, which is interpreted as representing an in situ historic underground coal mining feature.

8.7 Assessment of site-specific coal mining risks

8.7.1 Opencast workings

The site does not lie within an area of past or current surface (open cast) coal mining as identified by the Coal Authority.

No further consideration of opencast mining is therefore required.

8.7.2 Mine shafts and adits

As detailed above, the CACR indicates that five mine shafts are present in the vicinity of the site. The approximate shaft locations are indicated on Inset 1, below.



Inset 1: Mine shaft locations, the Coal Authority, September 2023 (NTS)

The CACR does not include any information on the shafts, hence there is no evidence to state that that these shafts have been capped or treated. Similarly, shaft diameters are not provided. The closest recorded shaft is approximately 45m outside the site boundary.

A shaft collapse will generally form a cone of depression around the top of the shaft, with the size of the cone dependent on the shaft details, including; its condition and lining; any backfilling or stowing; its dimensions and depth; the thickness of made ground and superficial material present above the bedrock. Assuming a cone of settlement will extend from the point where the shaft enters rockhead up to the surface at a 45-degree angle (a conservative, worst-case scenario), this would result in a 5m radius zone of ground instability from the shaft perimeter where the bedrock was at 5m below the ground surface.

Available BGS borehole logs for the area, record bedrock at depths of less than 5m. Although shaft diameters are not known they are indicated as possibly being of the order of 2m in diameter from the Coal Authority Interactive Viewer. Given these conditions it would be expected that any cone of depression (following any catastrophic failure) would be unlikely to extend beyond a 6m radius of the shaft centre. Given that the closest known

shaft is some 45m off-site then collapse from recorded shafts resulting in ground disturbance on site is not considered feasible.

No further consideration of recorded mine entries is therefore required.

8.7.3 Worked coal seams

8.7.3.1 Shallow coal seams

The Coal Authority's interactive viewer (**https://mapapps2.bgs.ac.uk/coalauthority/home.html**), shows the site and surrounding areas lie in an area of probable shallow workings (within 30m of the ground surface). As a result of the potential presence of shallow workings additional rotary borehole investigation work was carried out by RSK as part of the present site assessment work.

BGS Borehole Records

The BGS borehole records indicate historic underground workings in shallow coal seams beneath the site and in the surrounding areas.

- the three boreholes beneath the existing building (drilled in 1962 and believed to have been prior to the building construction) recorded an intact coal seam at very shallow depth (between 2.90m and 3.45m in BH No. 4 and between 3.40m and 4m in BH No. 6) and evidence of workings in a deeper seam. The deeper seam was intact at one location (0.60m in thickness at depths between 16.90m and 17.50m in BH No. 5) but recorded as being worked at the two other locations. Workings of; 1.10m thickness were recorded between depths of 17.35m and 18.45m in BH No. 6 and 0.40m in thickness were recorded between depths of 17.10m and 17.50m in BH No. 4
- two boreholes outside the existing building some 40m to the southwest recorded workings and intact coal within the coal seam interpreted as being the very shallow seam beneath the existing building (as previous bullet point). Old workings 1.40m in thickness were recorded between depths of 6.90m and 8.30m in BH No. 7. Intact coal 1.40m in thickness was recorded between depths of 7.10m to 8.50m in BH No. 8
- two boreholes outside the existing building some 30m to the northeast also recorded workings and intact coal. Old workings 0.40m in thickness were recorded between depths of 17.10m and 17.50m in BH No. 1. Intact coal 0.60m in thickness was recorded between depths of 18.75m to 19.35m in BH No. 3.

The BGS records confirm that shallow coal seams, up to 1.40m in thickness are present beneath the site which have been historically worked underground.

RSK Rotary Boreholes

The recent RSK rotary borehole investigation has confirmed the presence of shallow coal seams beneath the site, which are of workable thickness and which have in some areas little or insufficient rock cover (if worked underground). The RSK work recorded the seams to be intact and no evidence of workings other than at borehole R01 where a metallic obstruction was recorded at 25.50m depth, which is interpreted as being an in situ historic coal mining feature.

In respect of the two potential building layout options (the preferred option, Feasibility Option 1, to the southeast of existing building and the alternative Control Option 3 with the building to the northwest) the following comments are made:

- four rotary boreholes were drilled in the vicinity of the Feasibility Option 1 layout. These recorded intact coal seams, the two most shallow seams recorded maximum thicknesses of 1.40m and 1.70m. These were both present at shallow depth, the first close to subcrop level and the second some 11m to 15m below the first
- one rotary borehole (R01) was drilled in the footprint of the building in Control Option 3. This recorded a shallow intact coal seam at subcrop level, 0.80m in thickness between depths of 2.20m and 3.00m. It also recorded a metallic obstruction at 25.50m depth.

Although two shallow intact coal seams were recorded during the drilling of the recent RSK rotary boreholes, the historical BGS records indicate that workings in these coal seams has been recorded both beneath the site and in the immediately surrounding areas. Given the potential presence of workings in these shallow seams further consideration and mitigation is required.

8.7.3.2 Deep coal seams

Based on Coal Authority records, there are three named coal seams that have been worked underground from beneath the property: the Middleton Main at 77m bgl, the Whinmoor at 199m bgl and the Black Bed at 249m bgl. Due to the depth of these, they will have sufficient rock cover above and any collapse of workings would not result in any ground surface disturbance.

No further consideration of mining in deep coal seams is therefore required.

8.7.4 Coal mining gases

Beneath the site, shallow coal seams are present, which are indicated as having been worked underground. These may be at least partially interconnected through a series of off-site mine entries. The Coal Measures deposits are a known source of hazardous ground gases, including carbon dioxide and methane.

The underlying Coal Measures are considered to be a potential source of hazardous ground gas and shallow coal workings and mine entries can provide preferential migration pathways. This could lead to a build up of gases in the proposed development and are considered a risk to future site users.

8.8 Mitigation strategy

The CMRA completed in the preceding sections of this report has concluded that there are potentially significant risks to the proposed development due to the presence of possible shallow underground working of coal seams and coal mine gases.

Aspects of coal mining discussed in the CMRA, which pose a risk to the proposed development of the site, are covered in turn in this section, with comments provided as to what mitigation measures are considered necessary.

8.8.1 Shallow worked coal seams

Where shallow underground workings are present the main risk to ground surface stability is from collapse of the workings and upward migration of the ensuing voids. The risk reduces as the depth to the workings increases and the thickness of cover above the workings progressively increases. The risk is generally considered acceptable (see guidance provided in CIRIA Report C758D Abandoned Mine Workings Manual, London 2019) when the thickness of rock cover above the working is ten times the worked seam thickness (referred to as the 10t criterion). Where insufficient cover is present above workings then ground consolidation treatment is the most common form of mitigation. This requires rotary boreholes to be drilled, usually on a 3m or 6m regular spaced grid, and then pressure grouted to fill and voids or broken ground. Treatment is only required where workings are present and the 10t criterion is not achieved.

For the preferred Feasibility Option 1 layout four recent boreholes were drilled by RSK and these all recorded intact coal seams. However, historical BGS boreholes did record old workings in the immediately surrounding areas and it is possible that there are workings beneath the proposed building footprint. The method of old underground coal exploitation was likely to have been by pillar and stall workings and it is possible that all or some of the RSK boreholes may have been drilled in areas where pillars of coal remain in situ. It is also possible that the underground workings did not extend beneath all or even part of this area of the site. In order to provide more certainty that the shallow seams are intact it would be necessary to carry out further borehole drilling. There is no specific guidance on the number of boreholes required, however confidence would increase as more boreholes confirming intact conditions are drilled.

For the less-favoured Control Option 3 layout only one rotary borehole (R01) was drilled in the recent RSK investigation. This recorded a shallow intact coal seam at subcrop level, 0.80m in thickness between depths of 2.20m and 3m. It also recorded a metallic obstruction at 25.50m depth. If there is a change of plan and this layout was to be constructed it would also be recommended that further rotary drilling be carried out to both more generally investigate the possible presence of workings in shallow coal seams but to also specifically obtain more information in relation to the obstruction recorded in R01 (NB as this is at significant depth it is possible that other than confirming the ground conditions no further treatment may be required. However, if the feature is indicated to be a buried staple shaft or similar feature then additional consideration and possible treatment may be necessary).

8.8.2 Coal mining gases

The underlying Coal Measures are considered a potential source of hazardous ground gas. Recorded and possible shallow workings, on-site mine entries and geological faults may provide preferential migration pathways for hazardous gasses to impact proposed future development.

Considering CLAIRE Good Practice for Risk Assessment for Coal Mine Gas Emissions, (October 2021) and in consideration of site conditions a ground gas risk assessment is required to identify and assess potential risks to the proposed development and determine what mitigation measures, if any, will be required based on the proposed development. A

gas risk assessment is included in Section 9 below and the associated recommendations and mitigation should be followed.

9 GEO-ENVIRONMENTAL ASSESSMENT

9.1 Refinement of initial CSM

Made ground was present on the site but was found to be a thin layer and generally comprised gravels within a cohesive matrix. No asbestos containing material was found during the investigation.

The groundwater elevation data appear to indicate the possible presence of a continuous groundwater body within the cohesive unit (weathered Pennine Lower Coal Measures) at elevations ranging from 123.44m to 125.66m AOD (0.84m to 2.15m bgl). The aquifer is characterised as a secondary A Aquifer and was revealed by the investigation to be cohesive in nature within the weathered horizon. On the basis that there was no evidence of visual/olfactory contamination in either the soils or groundwater and that made ground materials are limited in extent the original conclusion from the initial CSM that the risk to groundwater is low is considered to remain valid.

The investigation did not reveal direct evidence of shallow coal workings beneath the favoured development option, but a potential mining feature was revealed as an obstruction at R01 at a depth of 25.50m bgl and is situated beneath the alternative development option layout. Fractured bedrock was encountered in the rotary boreholes, which may provide migration pathways for ground gasses.

9.1.1 Linkages eliminated after refinement of the initial CSM

Based on the discussion above, none of the potential contaminant linkages that were identified in the initial CSM have been eliminated.

9.1.2 Linkages added after refinement of the initial CSM

No contaminant linkages have been added following refinement of the initial CSM.

9.2 Linkages for assessment

As described in LCRM (Environment Agency, 2021a), there are two stages of quantitative risk assessment (QRA), Tier 2 generic (GQRA) and Tier 3 detailed (DQRA). The GQRA comprises the comparison of soil, groundwater, soil gas and / or ground gas results with generic assessment criteria (GAC) that are appropriate to the linkage being assessed. This comparison can be undertaken directly against the laboratory results or following statistical analysis depending upon the sampling procedure that was adopted. This assessment relates to LCRM Stage 1, Tier 2 generic quantitative risk assessment.

Following the refinement of the CSM, the potentially complete contaminant linkages that require further assessment and the methodology of assessment are presented in Table 19.

Table 19 Linkages for GQRA

Potentially relevant contaminant linkage	Assessment method
Human health and phytotoxic-related linkages	
H1. Oral, dermal and inhalation exposure with impacted soil, soil vapour and dust by future residents.	Comparison of soils chemical data against human health GAC in **Appendix L** for a proposed primary school end use.
Ground gas-related linkages	
G1. Concentrations of methane and carbon dioxide in ground gas entering and accumulating in enclosed spaces or small rooms in new buildings, which could affect future site users. For methane this could create a potentially explosive atmosphere, while death by asphyxiation could result from carbon dioxide.	Borehole hazardous gas flow rates (Qhg) have been calculated using maximum (peak) methane and carbon dioxide concentrations and steady state flow rates in accordance with BS8485. This is subject to interpretation and use of professional judgement to designate the site or zones of the site characteristic situation by comparison to a Gas Screening Value (GSV) as appropriate and in line with the CSM. This approach has been used to provide an initial assessment of ground gas related risks and is a useful exercise to develop an understanding of the potential coal mining related gas risk.

9.3 Methodology and assessment of human health and phytotoxic-related linkages

9.3.1 H1. Oral, dermal and inhalation exposure with impacted soil by future occupants/site users

In order to assess the soil results against the appropriate GAC, the soil results have been directly compared against the GAC for primary school end use.

The ratio of soil contaminant concentrations of genotoxic PAHs (benz(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(ah)anthracene, indeno(123-cd)pyrene and benzo(ghi)perylene) against benzo(a)pyrene have been compared against lower and upper limits set out in C4SL project methodology (CL:AIRE, 2014). All genotoxic PAH ratios were within the upper and lower bounds of the underlying toxicological study. Therefore, and in accordance with HPA guidance (HPA, 2010), the assessment of genotoxic PAHs has been based on the use of benzo(a)pyrene as a surrogate marker. Therefore, a risk from genotoxic PAHs is only considered likely if the respective benzo(a)pyrene concentrations exceed the relevant GAC.

All soil chemical results have been compared with the Primary School GAC. A soil organic matter (SOM) of 6% has been selected since laboratory results within the made ground range from 3.7% and 15.5%. The soil screening output spreadsheet is presented as **Appendix M**. The visual inspection at the laboratory identified no materials suspected of potentially containing asbestos and the scheduled laboratory screening for asbestos found no detectable asbestos fibres within any of the samples.

Results indicate that all contaminants are below the relevant GAC. It is therefore considered that a relevant contaminant linkage does not exist. As a result, no potentially

significant risks associated with the soil contamination have been identified and it is considered that the site may be regarded as suitable for the proposed end use.

9.4 G1: Methodology and assessment of ground gas-related linkages

9.4.1 Appropriate guidance

The risks to development from ground gases have been assessed in accordance with BS8485:2015+A1:2019 (BS8485), which provides guidance on ground gas (methane and carbon dioxide) characterisation and hazard assessment, as well as providing a framework for the prescription of protection measures within new buildings.

While it is recognised that the use of the semi-quantitative approach as outlined below is not wholly appropriate for the assessment of potential coal mining gas risks at the site, it has however been used to provide a line of evidence with regard to the potential for gas generation. This assessment is relevant to the soil conditions present, as indicated by ground gas monitoring results from installations in the shallow soils, and this can be used as an initial generic assessment which may be considered along with other lines of evidence in order to inform an overall assessment of risk related to ground gas sources at the site.

The process involves characterising the gas hazard from combining the qualitative assessment of risk (using the CSM) with ground investigation data so that a 'characteristic situation' (CS) can be derived for the site or zones within the site. Characteristic situations range from CS1 to CS6, the higher the CS, the higher the hazard potential. Gas protection measures within new buildings can be prescribed using a point scoring system, taking into consideration the CS and the proposed building type.

BS8485 indicates that the gas hazard can be characterised using the following methods:

- an empirical semi-quantitative approach using gas monitoring data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (Wilson and Card approach)
- an empirical semi-quantitative approach using TOC data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (CL:AIRE RB17 approach)
- detailed quantitative assessment methodologies.

For the purpose of this assessment, the empirical semi-quantitative approach above has been used to characterise the gas hazard and provide advice on the protective measures likely to be required within new buildings at the site.

9.4.2 Summary of the refined CSM for ground gas

In the assessment of risks and selection of appropriate mitigation measures, BS8485 highlights the importance of the conceptual model. In summary, potential sources of ground gas within influencing distance of the site identified in the initial CSM comprise:

- made ground with low degradable organic content. MG was up to 0.80m thick comprising brick, and concrete, with TOC content of between 2.15% and 9%

- mine workings more than 50 years since last worked. No confirmed workings were identified by drilling but were previously encountered and coal seams are present beneath the site and there are extensive areas of fractured bedrock. A possible coal mining related obstruction was identified in R01 at a depth of 25.50m indicating the potential for shallow workings to be present beneath the site.

The composition and thickness of the made ground, along with laboratory data from the soil samples, indicates there is a low risk from organic content. Shallow coal was found in all of the exploratory boreholes, but this was typically recovered as weathered material. This ranged in thickness from 0.10m-1.70m.

Pathways and receptors for ground gas were identified in earlier sections of this report.

This assessment has been undertaken to determine risks to building structures and proposed end users. The assessment has not taken into consideration the health and safety of construction workers. Risks may still be present to construction workers especially where works include the entry into excavations within the ground. Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and safe systems of work.

The risk assessment has been undertaken based on the current understanding of the CSM.

9.4.3 Empirical semi-quantitative approach using borehole monitoring data (Wilson and Card approach, BS8485)

9.4.3.1 Background

The empirical semi quantitative approach using gas monitoring data requires the designation of a gas screening value (GSV) for the entire site or zones within the site, which informs the hazard potential and associated prescribed ground gas protection measures within new buildings (where necessary). BS8485 defines the GSV as the *'flow rate (l/hr) of a specific hazardous gas* ***representative of a site or zone****, derived from assessment of borehole concentration and flow rate measurements and taking account of all other influencing factors, in accordance with a conceptual site model'.*

BS8485 Section 6.3.1 outlines the process for developing a GSV for the site or a zone as follows:

- borehole hazardous gas flow rate (Q_{hg}) is calculated for each borehole standpipe for each monitoring event. The borehole hazardous gas flow rate is defined in BS8485 as the '*flow rate of a specific hazardous gas, either methane or carbon dioxide, from a borehole standpipe'*. The Q_{hg} is calculated from individual borehole measurements of total gas flow and the concentration of the specific hazardous gas. BS8485 states in Section 6.3.4 that the **maximum** gas concentration recorded during the monitoring event should be used, together with **steady-state** values of gas flows
- the reliability of the measured gas flow rates and concentrations are assessed taking into account borehole construction
- decisions are made about how to deal with any temporal or spatial shortages in the data

- judgements are made about what GSV to designate for use for design purposes taking all relevant information and the conceptual site model into account.

Once the Q_{hg} has been calculated for methane and carbon dioxide, individual borehole measurements are compared to the thresholds presented in Table 2 of BS8485 which inform the CS that directly relates to each individual measurement. Taking into account the site data (i.e. borehole gas concentration and flow rate to calculate the Q_{hg}) and all other influencing factors in accordance with the CSM, a decision can then be made regarding the GSV that is considered to be representative of the site or a zone within it.

Typical threshold concentrations of methane (1% v/v) and carbon dioxide (5% v/v), and flow rates (>70 l/h), are also considered when designating the GSV for the site or zone, which in turn dictates the hazard potential and CS. It is important to note that the site or zone characteristic GSV and maximum concentration or flow thresholds are guideline values and not absolute. The thresholds may be exceeded in certain circumstances, if the CSM indicates it is safe to do so.

9.4.3.2 Summary of ground gas monitoring results

The results of the ground gas monitoring and testing undertaken, alongside site conditions at the time of monitoring, are given in **Appendix G**.

A summary of the maximum recorded concentrations per borehole (or minimum for oxygen) is presented in Table 20 overleaf. This table also presents details of the response zone, maximum recorded initial and steady state flow rates and minimum recorded depth to water across all monitoring rounds.

The range of atmospheric pressure over the 6 monitoring rounds completed was 988-1025 mbar.

Table 20 Summary of ground gas monitoring results – all data

Exploratory position ID	Response zone top (mbgl)	Response zone base (mbgl)	Response zone geological unit	No. of monitoring rounds	Peak CH_4 max. (%/vol)	Steady-state CH_4 max. (%/vol)	Peak CO_2 max. (%/vol)	Steady-state CO_2 max. (%/vol)	Oxygen min. (%/vol)	Peak gas flow max. (l/hr)	Steady-state gas flow max. (l/hr)	Depth to water min. (m)	Depth to water max. (m)	Atm. pressure min. (mb)	Atm pressure max. (mb)
R01	5	14	Pennine Lower Coal Measures	6	0.3	0.3	5.5	5.5	1.6	0.1	0.1	8.31	12.88	988	1025
R03	6	8	Pennine Lower Coal Measures	6	0.8	0.9	1.6	1.6	16.8	0.1	0.1	4.81	6.02	988	1025
WS01	0.30	1	Clay	6	0.6	0.3	4.0	4.0	14.1	0.1	0.1	Dry	1.05	988	1025
WS02	1	4	Clay	6	0.4	0.4	11.7	11.7	0.6	0.1	0.1	1.95	2.98	988	1025
WS04	0.50	1.50	Clay	6	0.8	0.9	0.9	0.9	10.3	0.1	0.1	Dry	1.48	988	1025
WS05	1	2	Clay	6	0.7	0.7	5.4	5.4	3.4	0.1	0.1	Dry	2.03	988	1025

9.4.3.3 Summary of borehole hazardous gas flow rates

Borehole hazardous gas flow rates (Q_{hg}) have been calculated for each borehole standpipe, for each monitoring round and are presented, alongside two 'worst case' checks comprising a probable 'worst case' and potential 'worst case' from the available monitoring data. Within this data gas concentrations exceeding the thresholds presented in Table 2 of BS8485 are identified, alongside the CS that could be associated with each individual borehole monitoring event.

Due to the low flow rates and gas concentrations, the Qhg data for methane and carbon dioxide is typically 0.00. There are no values above 0.00 for methane, but there are three values of 0.01 for carbon dioxide from the monitoring wells in R01, WS02 and WS05. Negative values were calculated on occasion owing to negative flow rates in some monitoring wells.

9.4.3.4 Worst case check

In accordance with BS8485, a 'worst case' Q_{hg} has been calculated per borehole by multiplying the maximum recorded flow from any monitoring round for that borehole by the maximum recorded methane or carbon dioxide concentration in that borehole. A further worst-case Q_{hg} check across all data collected is presented in Table 21, which has been calculated by multiplying the maximum recorded flow by the maximum recorded methane or carbon dioxide concentration.

Table 21 Worst-case check of hazardous gas concentrations

Dataset	Max methane (% v/v)	Max carbon dioxide (% v/v)	Maximum steady state flow rate (l/hr)	Methane Qhg (l/hr)	Carbon Dioxide Qhg (l/hr)
All data – positive flow rates only	0.9	11.7	0.1	0.00	0.01
All data – negative flow rates only			-3.2	-0.03	-0.37

The worst case Q_{hg} values considering only positive gas flow rates equate to a Characteristic Situation 1. If the lowest recorded negative flow rate of -3.2 l/hr is assumed as positive, the worst case Q_{hg} values would equate to Characteristic Situation 1 for methane and Characteristic Situation 2 for carbon dioxide.

9.4.3.5 Consideration of negative flow rates

Negative flow values have been recorded during monitoring, with WS04 and R03 returning negative flow rates on three and four rounds respectively. These negative flow rates do not correlate with falling atmospheric pressure. Many of these values are on the scale of -0.1 l/hr and thus would not make a difference to the GSV calculation should they be positive, with the exception of the final round of monitoring undertaken at R03, whereby the equivalent positive flow rate would result in a GSV of 0.37 for carbon dioxide, as reflected in the worst case check completed above.

9.4.3.6 Designation of site gas screening value (GSV)

Considering the calculated Qhg (including a conservative approach whereby negative flow rates are assumed to be positive) the CSM, monitoring conditions and response zone construction, Table 22 presents the GSVs designated for the site.

Table 22 Summary of GSVs

Hazardous gas	GSV (l/h)	Justification for the GSV
Methane	0.00	Data is consistent across monitoring visits, concentrations are typically <1%, flow rates are low.
Carbon dioxide	0.01	

Based on the available data, the Q_{hg}, the maximum concentrations and flows recorded, the CSM and the method for determining the CS presented within Table 2 of BS8485, the site has been conservatively characterised as CS2.

9.4.3.7 Data and assessment limitations

It should be noted that there are inherent limitations in ground gas monitoring including spatial adequacy of monitoring locations, changes in groundwater levels, variation in temporal or atmospheric conditions and whether these have been adequately characterised by the scope of monitoring undertaken.

The investigation undertaken to date has incorporated an appropriate number of ground gas monitoring visits, the data is considered reliable, and spatially representative of the site. It is also noted that 2 round(s) were completed during low and falling atmospheric pressure (<1000mb) indicating that possible worst-case conditions have been present during monitoring.

As acknowledged, however, the semi-quantitative approach undertaken above represents only one form of assessment and consideration of the data in terms of the potential coal mine gas risk in the context of the ground conditions revealed by the investigation is needed. Further assessment in accordance with guidance presented in 'Good Practice for Risk Assessment for Coal Mine Gas Emissions' (CL:AIRE, 2021) is required. This may include the need to gather additional field data using continuous monitoring instrumentation.

Therefore, it is recommended that a detailed quantitative ground gas risk assessment is undertaken to enable the confident assessment of risk and subsequent design of appropriate gas protection measures for the proposed development.

This assessment would also need to consider the potential effects of ground improvement works (if undertaken) and the ultimate foundation solution (once selected) as these may create preferential pathways for ground gas migration to the surface, this needs to be considered through the design process, such as through a foundation works risk assessment.

9.4.3.8 Trace gases

Carbon monoxide and hydrogen sulphide values were measured as part of the gas monitoring regime with neither returning any measurable concentrations.

PID measurements were also taken during monitoring which recorded concentrations below detection limits.

9.4.4 Implications of ground improvement or foundation design

Where ground improvement methods or piled foundation types are being considered for the development, these may create preferential pathways for ground gas migration to the surface, this needs to be considered through the design process, such as through a foundation works risk assessment.

Should foundation solutions or building design change within the design process, then this gas risk assessment and mitigation should be reviewed and where applicable updated.

9.5 Uncertainties and implications in refined CSM and GQRA

In accordance with good practice, data gaps and uncertainties in the refined CSM have been identified at this stage. These are summarised in Table 23 along with the likely implications.

Table 23 Data gaps and uncertainties

Data gap/ uncertainty	Details	Implications
Asbestos was not found in made ground samples tested	Although not encountered to date, asbestos containing material (ACM) could still be present in discrete locations.	Vigilance should be maintained for any potential ACM or fibrous material during below ground works.
Groundwater quality	Groundwater monitoring sampling was not undertaken.	Groundwater quality data is not available for assessment. However, there is considered to be sufficient supporting evidence to conclude that the risks to groundwater beneath the site are likely to be low.

10 PRELIMINARY WASTE ASSESSMENT

In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if reused on the site of origin for the purposes of development. Soils such as made ground that are not of clean and natural origin (irrespective of whether they are contaminated or not) and other materials such as recycled aggregate, do not become waste until the criteria above are met. Further background information is provided in **Appendix D**.

Excavation arisings from the development may therefore be classified as waste if surplus to requirements or unsuitable for reuse. The following assessments assume the material tested is classified subsequently as waste (after reuse options have been excluded).

10.1 Hazardous waste assessment

Technical Guidance WM3, **Appendix D** (Environment Agency, 2022b) sets out requirements for waste sampling. It is a legal requirement to correctly assess and classify waste. The level of sampling should be proportionate to the volume of waste and its heterogeneity. The preliminary assessment provided below is based only upon the available sample results and may not be sufficient to adequately classify the waste.

10.1.1 Chemical contaminants

Envirolab, an RSK company, has developed a waste soils characterisation assessment tool (HASWASTE), which follows the guidance within Technical Guidance WM3. The analytical results have been assessed using this tool to assess the hazardous properties to support potential off-site disposal of materials in the future. Note that it is ultimately for landfills to confirm what wastes they are able to accept within the constraints of their permit.

No samples were taken for waste assessment but the results of the soil analysis indicate the soils did not display hazardous properties. This suggests that if applicable any waste derived from the soils tested would require disposal at a suitably permitted inert or non-hazardous waste landfill.

10.1.2 Asbestos within waste soils

Technical Guidance WM3 requires that within a mixed waste the separately identifiable wastes be assessed separately.

For instance, where waste soil contains identifiable pieces of asbestos (visible to the naked eye) the asbestos should, where feasible, be separated from the soil and classified separately. This should be disposed of within a hazardous, stable non-reactive hazardous waste landfill or a special cell in a non-hazardous waste landfill.

Samples of potential asbestos containing material were collected from site and analysed for the presence of asbestos, the results of which are presented in **Appendix N**. Analysis confirmed that asbestos is not present within samples. Visible asbestos containing material was not identified on-site.

10.2 WAC assessment

Waste acceptance criteria (WAC) testing was not undertaken as part of this investigation.

11 GEOTECHNICAL ASSESSMENT

11.1 Proposed development

It is understood that the proposed development is a new single storey school building (to occupy an area of c. 0.12ha) and associated infrastructure, including car park and playing fields. The school building is proposed to be made of a steel frame with masonry wall along the perimeter and lightweight steel roof. A suspended ground floor (beam and block) is also proposed. According to the feasibility option 1 (as shown on Drawing 221026-NAP-ZZ-XX-DR-A-02006, Rev 1) the building will be located on the south-eastern part of the school property.

At this stage no final loads are available. Based on an email received from the project teams technical advisors (dated 11 January 2024), a load of 50kN is used for the perimeter wall (10kN for live load and 40kN for dead load) and for the column load of 125kN and 225kN for live and dead loads, respectively. The preliminary geotechnical assessment will include different options for foundations.

This preliminary assessment is based on all data obtained from the site investigation and laboratory testing, presented in this report, across the entire site. It is understood that the position of the new school building has not been finalised yet.

11.2 Key geotechnical hazards / development constraints

The key risks identified from the available ground investigation data are discussed below:

- clay soils of medium volume change potential
- adverse ground chemistry due locally elevated sulphate content in the weathered bedrock (Pennine Lower Coal Measures) deposits
- constraints from any ground gases
- locally high perched groundwater level with post fieldwork levels recorded between 0.84m to 2.98m bgl in the window sample holes
- locally low strength / soft shallow cohesive made ground and weathered bedrock (weathered Pennine Lower Coal Measures) that may have implications for foundation design
- where encountered, bedrock was generally recorded as a weak mudstone interbedded with a weak siltstone and coal with locally medium strong bedrock stratum, based on UCS test results.

11.3 Foundations

11.3.1 Foundation options

The cohesive soils of soft to firm consistency and low strength locally medium strength are present within the top 2m to 2.50m below ground level. Made ground has a maximum thickness of 0.80m. Given the anticipated light structure of the building, it is considered that traditional spread or raft footings may be suitable for the proposed development.

The site is located in a past coal mining area and a number of mine entries are located off-site to the south and to the north of the school boundary within the greenfield area. Although these are all off site, there is a history on underground mining beneath the site and close inspection of all site excavations should be carried out to ensure that if any unexpected ground conditions are encountered then the potential for these representing historical mining related features is considered.

11.3.2 Spread and raft foundations

For the proposed suspended floor of beam and block, trench fill would normally be the typical spread foundation used. Based on the site investigation data and laboratory testing results, the use of deep trench fill is not considered suitable for this development. Trench fill is not a cost-effective due to the presence of thin fractured coal seams encountered from depths of 1.50m to 5.30m bgl, the presence of weathered bedrock recovered soft to firm clay across the site giving rise to differential settlement, the consolidation settlement higher than 25mm and the long term time dependant settlement, the presence of trees at various water demand and a preliminary net bearing capacity of 68kN/m^2 at 2m bgl.

It is recommended that raft foundation is used. Raft is considered the most appropriate type of foundation for use in a coal mining area, such as at this site. The recommendations for the design and construction of raft foundation in relation to the ground conditions are set out in Table 24.

Table 24 Design and construction of raft foundations

Design/construction considerations	Design/construction recommendations
Founding stratum	Weathered bedrock, recovered as soft to firm clay, above the coal seams.
Depth	Foundations should be taken to a minimum depth of 1.50m to 2m below the existing ground level and at least 0.20m into the founding stratum below any overlying made ground. The shallowest coal seam top depths are at 1.50m to the north of the site and from 1.90m bgl to the south of the site.
Special design considerations	
Variable founding soils	Owing to the significant vertical variability of the founding strata, consideration should be given to incorporating appropriate heavy reinforcement into the raft foundations to minimise the risk of future differential foundation movements and resist to potential flexure. Raft foundation slab on ground which may be affected by potential disturbance of coal mining should be design very thick and stiff. According to CIRIA C758, the slab length for a raft foundation in coal mining area should be limited to 20m. In this view, the design will need to take into account connecting the slabs and their relative flexibility. The use of raft with appropriate reinforcement will span across any local soft spot, if present, and may minimise the effect of differential settlement or avoid excavation of the soft material and backfilling with engineered fill.

Design/construction considerations	Design/construction recommendations
Presumed bearing capacity	Raft foundations with a width of up to 10m and length of 20m constructed on the weathered bedrock recovered as clay at a minimum depth of 1.50m or 2m may be designed using a preliminary presumed bearing capacity of 130kN/m^2 and 150kN/m^2, respectively. The presumed bearing capacity includes a partial factor on bearing resistance of 1.5 against bearing capacity failure.
Construction considerations	The proposed founding stratum of weathered bedrock as clay may be a silt-rich soil, hence susceptible to rapid softening once exposed. Hence all foundation excavations should immediately be blinded with concrete or the full foundation constructed. At a number of investigated locations, coal seams are present at shallow depth or within the influence zone of the foundation and structure loads. If the removal of the coal is not feasible at shallow depth, local ground treatment and stiffening of the foundation should be considered together. Local areas of disturbed ground may require bridging or be cantilevered.

11.3.3 Piled foundations

Recommendations for the design and construction of pile foundations should be considered if the proposed loads imposed by the buildings are higher than assumed above and so would become uneconomic to be supported by spread foundations and to avoid issues from differential settlement across the building footprint.

Details on the design and construction of pile foundations in relation to the ground conditions are set out in Table 25.

Table 25 Design and construction of piled foundations

Design/construction considerations	Design/construction recommendations
Pile type	The construction of either bored, CFA and potentially precast driven piles is considered technically feasible at this site.
Possible constraints on choice of pile type	Given the close proximity of the site to a residential area it is considered possible that the vibration/noise associated with pile driving may not be acceptable. The choice on the type of pile should be made in relation to the presence of mining workings and the detriment of pile installation vibration on the stability of the workings. The type of pile should also be dictated by the rig load due to the presence of soft to firm clay typically within the top 2m bgl. From the environmental assessment of site, there is no exceedance of contaminant levels in the ground as well as the ground gases are considered low (based on the site characterisation of GSV2). Piling can create new pathway for migration of ground gases and appropriate measure of protection for ground gases migrating toward the surface should be taken. It is prudent to probe each location of the proposed piles in order to confirm or discharge unrecorded mining workings. This should

Design/construction considerations	Design/construction recommendations	
	be done by engaging the pile contractor earlier such that they can satisfy their final design.	
Temporary casing	Given the presence of groundwater strikes over the full depth of the investigation and the potential for broken strata of coal and weathered bedrock, bored piles will require temporary casing throughout their depth. Alternatively, the use of continuous-flight-auger (CFA) injected bored piles or driven piles usually overcomes this issue.	
Soft superficial deposits	For the purpose of assessing preliminary pile capacities, the made ground and soft to firm clays in the weathered bedrock have been presumed not to contribute to the load-carrying capacity for the piles. Negative friction should be taken into account in the design due to the presence of soft consistency low strength clay to a depth of 1.20m to 2.50m bgl, and locally to 4m bgl.	
Man-made obstructions	The presence of buried obstructions within the made ground cannot be fully discounted and may lead to some difficulty during piling. It is recommended that once the proposed pile layout has been determined, pre-pile probing be carried out at each of the pile positions. Where buried obstructions are encountered, it will be necessary to either relocate the pile(s) or make allowance for removing the obstruction.	
Hard strata	Piles are required to be socketed within the bedrock. According to CIRIA C578, the pile should be end-bearing on a stratum below any shallow coal seams. At the site, the coal seams extend to depths of 1.50m to 5.10m bgl. Below these coal seams, the Mudstone/Siltstone/Sandstone bedrock has a thickness of at least 11m.	
Pile design parameters in rock	Unconfined rock strength (MPa)	1 to 5
	Pile diameter (m)	0.30*
	Preliminary ultimate bearing capacity (MPa)	0.08^ - 0.41^ 0.51* - 3.50*
General parameters	Global margin of safety	2.5
	Assumed Unit weight (kN/m^3)	25
	Assumed Friction Angle (º)	30
Special precautions relating to bored pile shafts and bases	Bored pile concrete should be cast as soon after completion of boring as possible and in any event the same day as boring. Prior to casting the base of the pile bore should be clean, otherwise a reduced safe working load will be required. Similarly, if the pile bore is left open the shaft walls may relax/soften, leading to a reduced safe working load.	
^Based on a friction angle of 30º from Tomlinson (2001) and the low bound of the UCS and Point Load laboratory testing result. Used correlation (7.35) in Tomlinson (2001).		
*Based on a friction angle of 30º from Tomlinson (2001) and the low bound of the UCS and Point Load laboratory testing result. Used correlation (7.36) in Tomlinson (2001).		

Notwithstanding the above, it is recommended that the detailed advice of a specialist-piling contractor be sought as to the most suitable type of pile for the prevailing ground conditions and as to their lengths and diameters to support the required design loads.

11.3.4 Foundation works risk assessment

It is anticipated that a foundation works risk assessment report will be required for the development because:

- the piling has the potential to create preferential pathways for migration of ground gas to surface or groundwater to depth as well as any contaminants
- a considerable thickness of cohesive made ground and weathered bedrock has been encountered beneath the site is likely to significantly retard migration pathways of contaminant if left undisturbed by any piling process
- there is a ground gas source present at depth (mine-workings) and the type of foundation proposed may create preferential pathways for migration of this to surface
- the possibility of unrecorded mining workings at shallow depth under the site may require remediation both for the use of spread foundation and piling.

This should be undertaken in accordance with relevant EA guidance and Coal Authority Guidance on Managing the Risk of Hazardous Gases when Drilling or Piling Near Coal. It may be prudent to undertake a piling risk assessment, if piling is the preferred option.

11.3.5 Floor slabs

Information relating to the proposed span and design loads for the proposed floor slabs has not been finalised at this stage. It is proposed to use a suspended block and beam floor.

The sub-grade soil conditions beneath the footprint of the proposed buildings typically comprise soft to firm clay.

If piling is the preferred option, suspended floor is required due to the potential differential settlement between the floor and the shell.

If raft foundation is the preferred option a ground floor slab may be suitable. The sub-grade will need to be prepared by excavating and replace with engineering fill into thin compacted layer up to the proposed founding level.

At this stage it is no known if the ground would require remediation in relation to potential of shallow depth mining workings. If ground treatment is required, this could provide ground improvement and increase of bearing capacity and possibly founding level for ground bearing floor slab.

Careful examination and rolling of the formation, and replacement of exceptionally hard and soft material with well compacted, suitable granular fill may be necessary.

11.4 Roads and hardstanding

In the 1m below ground level the exploratory holes have revealed a soil profile typically comprising a soft to firm slightly sandy, slightly gravelly clay.

In pavement design terms, the groundwater conditions are anticipated to comprise a water table at 0.80m bgl.

The results of in-situ testing are summarised in Table 26.

Table 26 Summary of CBR values derived from in-situ DCP tests

Test location	Material type	Minimum CBR value determined
WS03	Firm slightly gravelly clay	4%
WS04	Soft to firm slightly gravelly slightly sandy clay	6%
WS05	Soft to firm slightly gravelly slightly sandy clay	6%

The recommended sub-grade soil CBR value for road pavement design is therefore 4%. This value assumes that during construction the formation level will be carefully compacted and any soft spots removed and replaced with well-compacted granular fill.

The sub-grade soils can be regarded as non-frost-susceptible, based upon the criteria given in Appendix 1 of TRRL (1970) Report Road Note 29.

11.5 Excavations for foundations and services

Generally, the hand dug trial pits remained stable during excavation which indicates that shallow foundation excavations should also remain stable in the short term. In the event that excavations are to remain open for longer periods, consideration should be given to the use of trench support systems.

If coal is encountered within the excavation to founding level, it should be removed if feasible with normal plant and the voided areas infilled with engineered fill in compacted layers.

According to CIRIA Report 758, if within the excavated area coal-related open joints are present, they should be cleared of loose material and checked for gas emission before sealing it up to a depth of 3 meter below founding level.

The foundation level should be checked out laterally for at least 2 meters beyond the proposed footprint edge for any joints or coal outcrop.

Man entry into any excavations should not be undertaken without provision of suitable shoring and support and dewatering or suitable regrading and battering of side slopes to safe angles. Confined spaces protocols for the Health and Safety of personnel should always be used where man entry into excavations is to be undertaken as low oxygen conditions may be present.

Groundwater was not encountered during the intrusive investigation, but was measured at relatively shallow levels during the follow-on monitoring programme. Dewatering may therefore be required to facilitate foundation excavation.

The cohesive nature of the soils encountered suggests that pumping from open sumps should be sufficient to keep the excavations reasonably dry.

Excavation should be possible using conventional site plant.

11.6 Chemical attack on buried concrete

This assessment of the potential for chemical attack on buried concrete at the site is based on BRE Special Digest 1: Concrete in aggressive ground (2005), which represents the most up-to-date guidance on this topic currently available in the UK.

The desk study and site reconnaissance indicate that, for the purposes of assessing the aggressive chemical environment of the site, the site should be considered as comprising brownfield ground.

Based on testing results, Table 29 gives the characteristic pH, water-soluble and total sulphate content values for soils from made ground and weathered bedrock encountered on-site.

Table 27 Characteristic pH, water soluble sulphate and total sulphate values

Stratum	pH	Water Soluble Sulphate (mg/l)	Total Potential Sulphate (SO_4 %)
Made ground	7.45	<10	0.18
Weathered bedrock	4.48 – 8.37	30 - 1510	0.03 – 0.51

Based on the results above and following the steps outlined in the BRE guidance, the Design Sulphate (DS) Classes and Aggressive Chemical Environment for Concrete (ACEC) classifications are summarised in Table 28, on the basis of water-soluble sulphate and total potential sulphate, respectively.

Table 28 Concrete design class

Stratum	Groundwater	Water Soluble Sulphate	
		DS Class	AC Class
Made ground	Static	DS-1	AC-1
Weathered bedrock	Mobile	DS-2	AC-4z

Assuming that in the made ground and underlying shallow soils the groundwater is static and no groundwater was encountered at any borehole location or during monitoring visits within the made ground, the concrete can be designed in accordance with the ACEC-1 classification and DS-1 class.

For the weathered bedrock recovered as clay, due to recording groundwater level at a shallow depth of 0.80m bgl during the monitoring visits, it is recommended to design the concrete in accordance with the ACEC-4z classification and DS-2.

12 CONCLUSIONS AND RECOMMENDATIONS

12.1 Geo-environmental assessment

The key findings of the geo-environmental assessment are as follows:

- the site was undeveloped agricultural land based on maps from 1854 with the current school constructed between 1965-1967. It is bound by Fairfield School to the north and east, playing fields to the east and south, and residential properties and Leeds Old Road to the west and south. Based on available information, the geology of the site comprises made ground over the Pennine Lower Coal Measures Formation, a secondary A aquifer. According to Coal Authority data, the site is in a high-risk development area with probable shallow workings and known deeper workings
- the site investigation confirmed the expected geological sequence, with made ground up to 0.80m bgl, underlain by the Pennine Lower Coal Measures Formation. A weathered intact coal seam was encountered at depths between 1.90m to 5.20m bgl and a further intact coal seam at depths between 15.90m to 21.90m bgl
- environmental testing confirmed results for all contaminants were below the relevant GAC. No asbestos was discovered on site or found within any of the samples. As a result, no potentially significant risks associated with the soil contamination have been identified and it is considered that the site may be regarded as suitable for the proposed end use
- the groundwater elevation data obtained from those monitoring wells installed in the window sample boreholes appear to indicate the possible presence of a groundwater within the cohesive soil at elevations ranging from 123.44m to 125.66m AOD (0.84m to 2.15m bgl). Deeper groundwater was recorded at elevations of 113.23m to 120.97m AOD in R01 and R03 respectively, but it is not possible to determine whether a deeper and laterally continuous groundwater body exists within the bedrock with the available data
- six rounds of gas monitoring have been undertaken, two of which were conducted during periods of low and falling atmospheric pressures. Methane concentrations were found to not exceed 0.9%v/v and the maximum recorded CO2 concentration was 11.7%v/v. An initial assessment using an empirical semi-quantitative approach has been used to provide a preliminary assessment of the gas hazard and based on the available data, the site has been conservatively characterised as CS2
- as acknowledged, however, the semi-quantitative approach undertaken represents only one form of assessment and consideration of the data in terms of the potential coal mine gas risk in the context of the ground conditions revealed by the investigation is needed. As such, the ground gas related linkage remains potentially complete at this stage and further assessment is recommended.

12.2 Coal mining assessment

The key findings of the RSK rotary borehole drilling investigation of shallow coal seams, include the following:

- the investigation recorded intact coal seams of significant and certainly workable thickness at shallow depth at all rotary borehole locations
- a very shallow intact coal seam was recorded at or just below bedrock subcrop level. This recorded a thickness of up to 1.20m and had very little, if any, competent bedrock cover above it. A second underlying and intact seam was recorded at a number of locations, lying typically 11m to 15m below the first seam. This was up to 1.70m in thickness and had a variable thickness of rock cover (at some boreholes the cover exceeded ten times the seam thickness but this was absent at other locations)
- an apparent metallic obstruction was encountered in R01 at 25.50m, which is interpreted as representing an in situ historic underground coal mining feature.

The key findings of the updated CMRA include:

- historic BGS borehole records from beneath the existing school building and immediately surrounding areas recorded shallow historical underground workings
- although the recent RSK boreholes recorded intact shallow coal seams, historical workings are present which may extend beneath the proposed new building area. If such workings were present, then this could be mitigated by ground treatment including drilling and grouting consolidation works
- to provide more certainty that the shallow seams are intact it would be necessary to carry out further borehole drilling. If this encountered shallow workings then the findings would be used to determine the extent of the area requiring consolidation treatment. Any further investigation or subsequent treatment works (if required) would have to be permitted by the Coal Authority.

12.3 Geotechnical assessment

The key findings of the geotechnical assessment are as follows:

- considering the proposed development, the key geotechnical constraints identified from the ground investigation and laboratory testing results include: clay soils of medium volume change potential, low strength / soft cohesive soils within the top 2m from ground level, shallow coal seams from depths of 1.50m and 5.10m bgl, weathered bedrock of weak Mudstone or Siltstone encountered from depths of 3m to 5.20m bgl, locally elevated sulphates in the weathered bedrock deposits, locally high groundwater table during monitoring
- in view of the presence of the soft to firm clays encountered in the top 2m (and locally deeper) within the weathered bedrock, conventional spread footings such as deep trench will not be suitable as foundations for the proposed development
- alternatively, recourse to piled or raft foundations are preferred
- a foundation works risk assessment report is anticipated to be required for the development

- the recommended sub-grade soil CBR value for road pavement design is 4%
- dewatering may be required depending on the depth of excavation
- the Made Ground has a Design Sulphate Class DS-1 and ACEC Class AC-1
- the weathered bedrock (Pennine Lower Coal Measures) has a Design Sulphate Class DS-2 and ACEC Class AC-4z.

12.4 Recommendations

The following recommendations are made for further assessment of the site to investigate the risks identified above and to address remaining uncertainties:

- further assessment in accordance with guidance presented in 'Good Practice for Risk Assessment for Coal Mine Gas Emissions' (CL:AIRE, 2021) is required. It is recommended that a detailed quantitative ground gas risk assessment is undertaken to enable the confident assessment of risk and subsequent design of appropriate gas protection measures for the proposed development
- further rotary borehole investigation will be required to either confirm the intact nature of the shallow coal seams (and provide sufficient confidence that these conditions extend throughout the proposed building layout area) and/or to determine the extent of workings and requirements for consolidation treatment. Rotary coring will be required to confirm the lithological sequence and details of the coal seams or broken ground and potential workings
- the scope of this borehole investigation work (and any consolidation treatment, if necessary) would have to be permitted by (and agreed with) the Coal Authority once the layout of the proposed development is confirmed.

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FIGURES

Figure 1



Rev	Date	Amendment	Drawn	Chkd	Appd
C01	27.04.23	First Issue	AS	GJ	GJ

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Web: www.rsk.co.uk

Client: Turner and Townsend

Project Name: Co-Op Smithies Moor

Description: Site Location Plan

Dimension	Size	Scale	Geolocation	Project ID	Drawing no.	Rev	File name
m	A4	1:25,000	421994,424972	323197	11101	C01	323197-HE-111-SS-D-C-11101-C01

Figure 2 SITE LAYOUT PLAN

DO NOT SCALE FROM THIS DRAWING

N

R01*
WS01*
R05
WS05*
WS06
R03*
WS04*
R02
WS03
WS02*
R04

LEGEND

Site boundary

Rotary hole final location
* Denotes monitoring well installation

Window sample final location
* Denotes monitoring well installation

ID	X	Y
R01	422052	424972
R02	422303	424811
R03	422326	424928
R04	422304	424896
R05	422131	424951
WS01	422039	424966
WS02	422087	424897
WS03	422114	424909
WS04	422117	424926
WS05	422138	424936
WS06	422185	424986

Notes:

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Rev	Date	Amendment	Drawn	Chkd	Appd
C02	08.12.23	First Issue	LS	MF	MF
C01	05.10.23	First Issue	AS	GJ	GJ

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Project Name
Co-Op Smithies Moor

Description
Exploratory Hole Location Plan

Project ID	Drawing no.	Revision
323197	22201	C02

File name
323197-HE-222-SS-D-C-22201-C02

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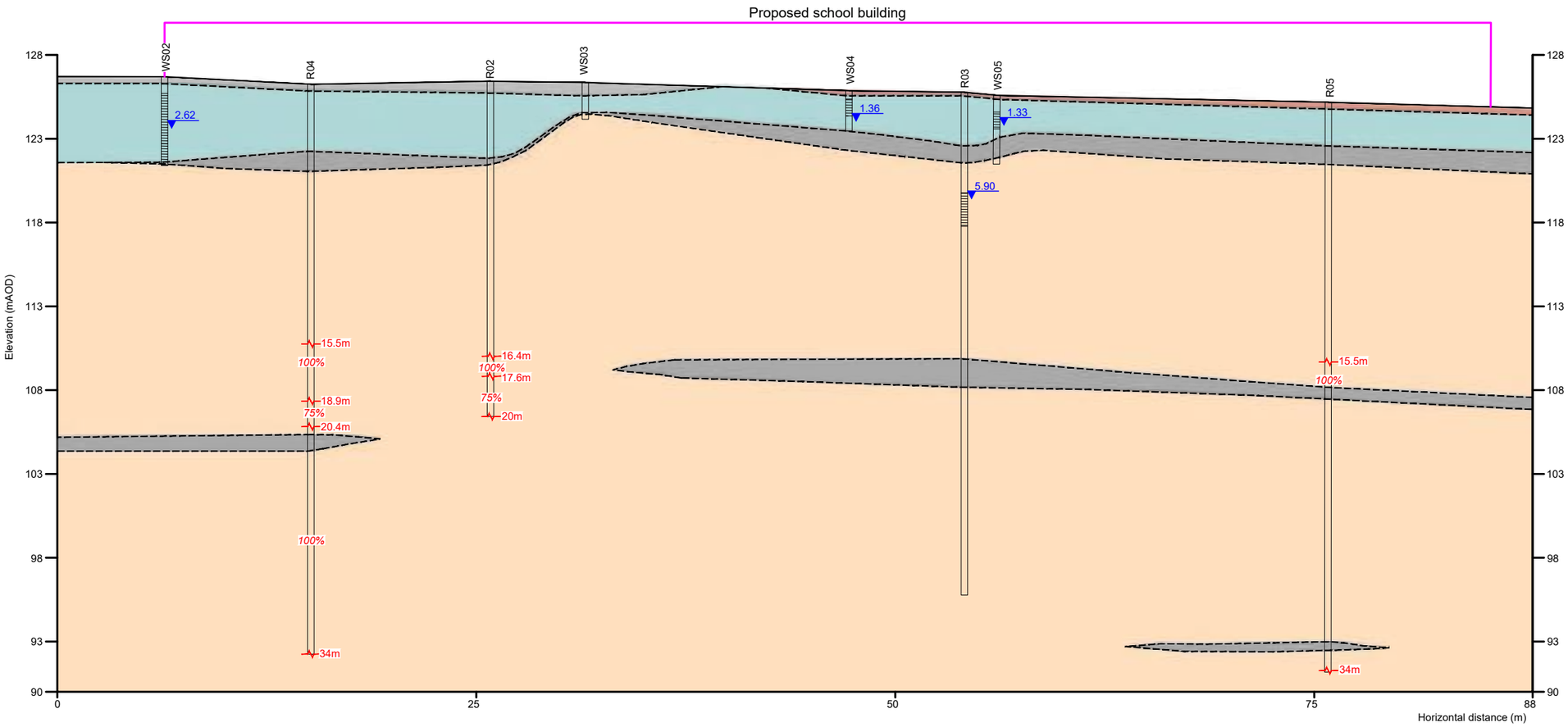
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Figure 3 SCHEMATIC CROSS SECTION A-A’

DO NOT SCALE FROM THIS DRAWING

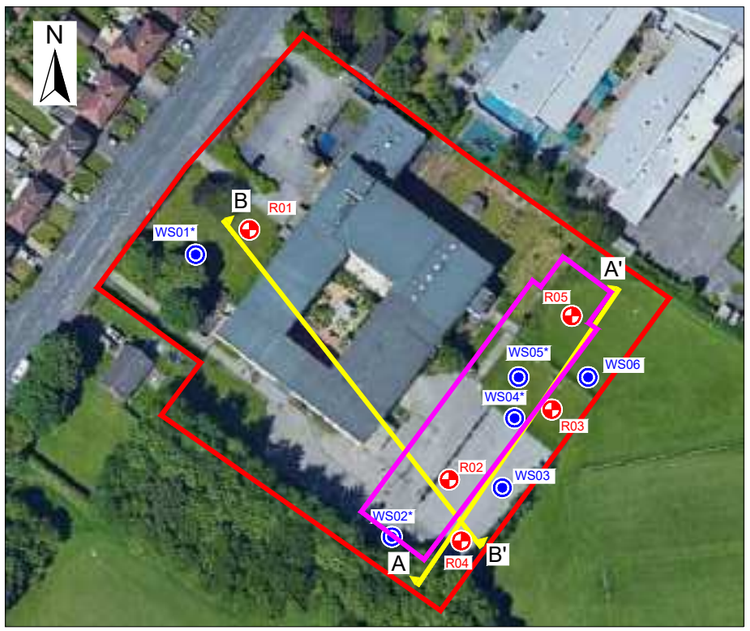
Cross Section A-A'

1:300



Base Plan

NTS



LEGEND

- Current school building boundary
- Proposed school building boundary
- Borehole location
- Window sample location
- MG: Made ground
- TPS: Topsoil
- C: Cohesives (Pennine Lower Coal Measures)
- CO: Coal (Pennine Lower Coal Measures)
- PLC: Pennine Lower Coal Measures
- Response zone
- Groundwater level
- Start and end of loss of flush
- 15.5m — Depth at which loss of flush was recorded
- *100%* — Percentage loss of flush recorded between marked depth

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	05.02.24	First Issue	AS	MF	MF

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Project Name: Coop Smithies Moor

Description: Schematic Geological Cross Section A-A'

Project ID	Drawing no.	Revision
323197	43101	C01

File name: 323197-HE-431-SS-D-C-43101-C01

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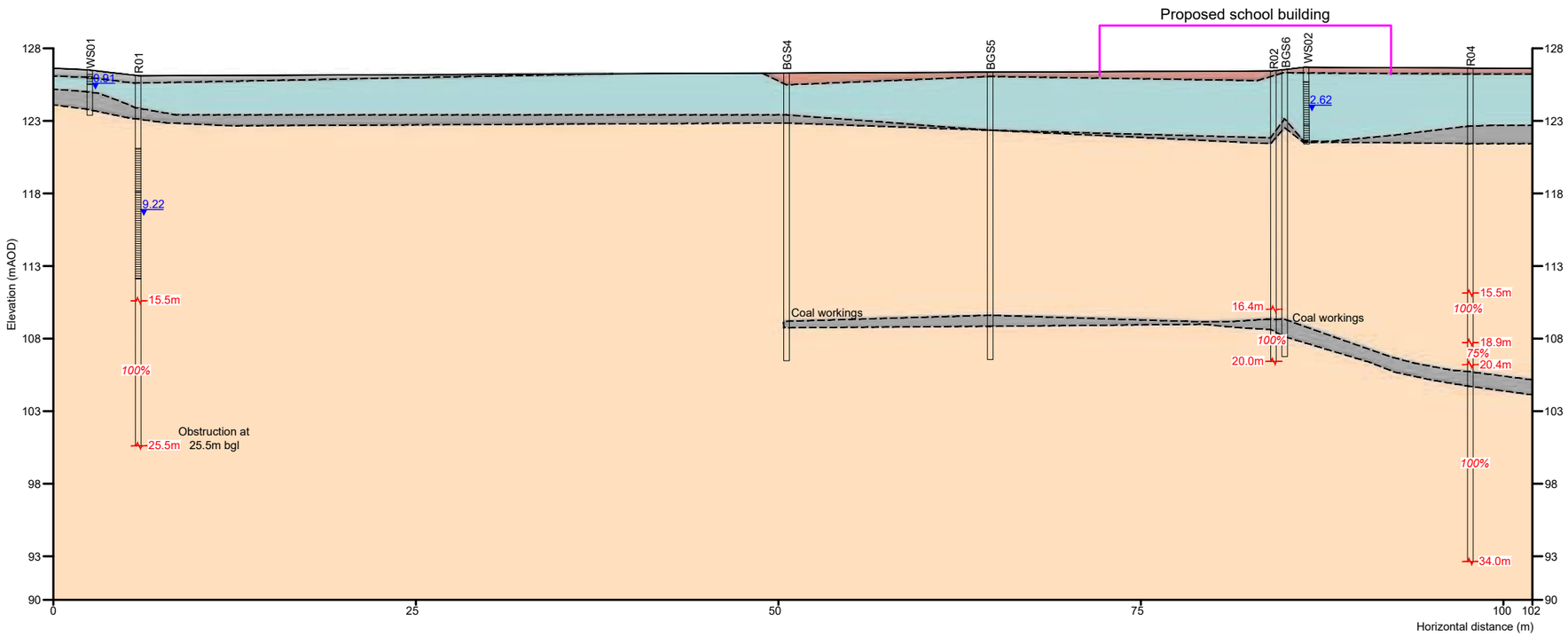
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Figure 4 SCHEMATIC CROSS SECTION B-B’

DO NOT SCALE FROM THIS DRAWING

Cross Section B-B'

1:375



Base Plan

NTS



LEGEND

- Current school building boundary
- Proposed school building boundary
- Borehole location
- BGS Borehole location
- Window sample location
- MG: Made ground
- TPS: Topsoil
- C: Cohesives (Pennine Lower Coal Measures)
- CO: Coal (Pennine Lower Coal Measures)
- PLC: Pennine Lower Coal Measures
- Response zone
- Groundwater level
- Start and end of loss of flush
- 15.5m — Depth at which loss of flush was recorded
- *100%* — Percentage loss of flush recorded between marked depth

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	26.01.24	First Issue	AS	MF	MF

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Project Name: Coop Smithies Moor

Description: Schematic Geological Cross Section B-B'

Project ID	Drawing no.	Revision
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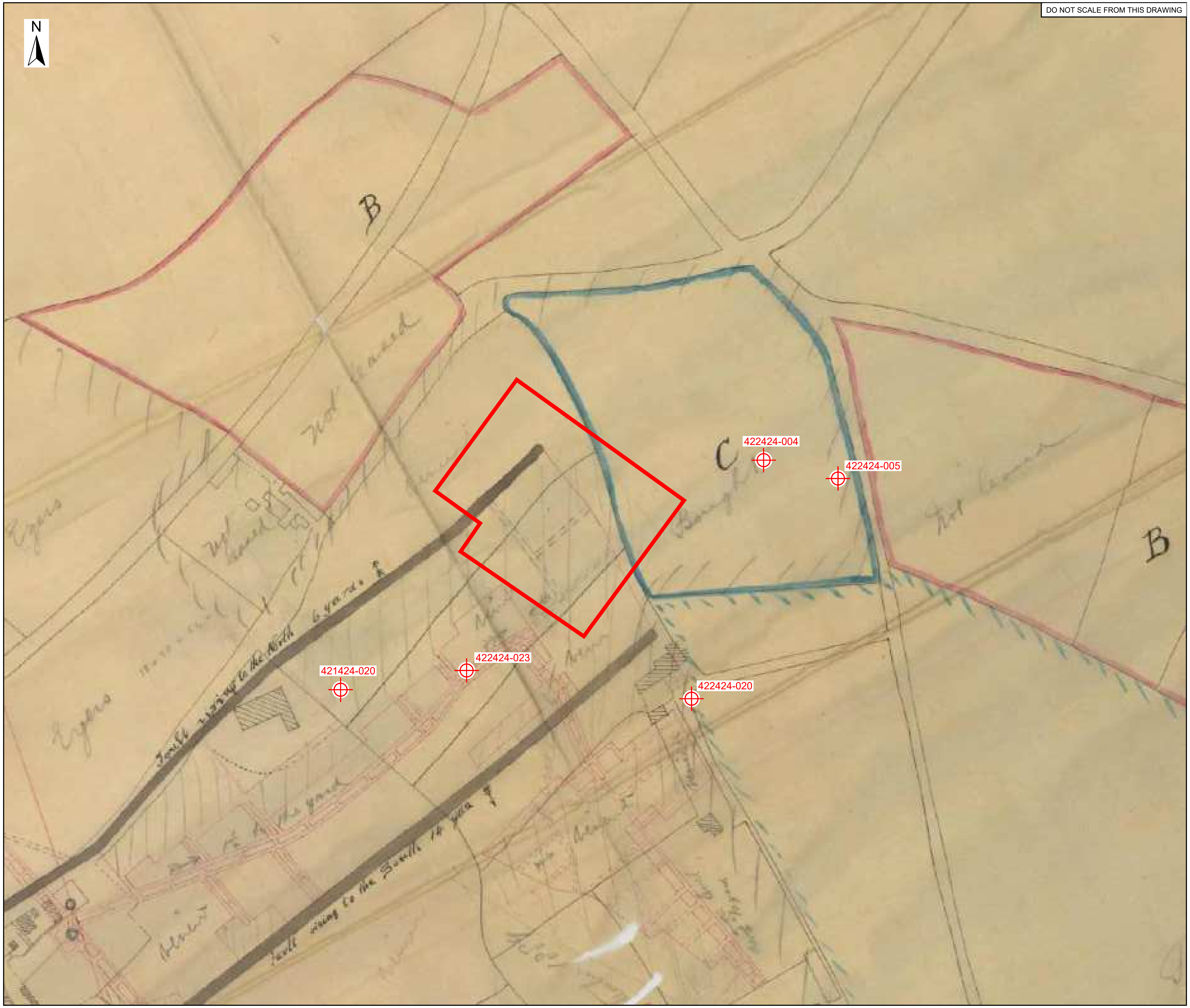
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Dimensions	Scale	Size
m	1:375	A3

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Figure 5 COAL AUTHORITY ABANDONMENT PLAN REFERENCE GCR153_999999_

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LEGEND

Approximate position of the site boundary

Disused mine shaft

Notes:

Positions are indicative only and subject to agreement with the school management, proposed building position and presence of services, and may be re-located.

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	24.01.23	First Issue	BS	MF	MF

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Project Name
Co-Op Smithies Moor

Description
Coal Authority Abandonment Plan reference 10348_999999_2OF2

Project ID	Drawing no.	Revision
323197	11301	C01

File name
323197-HE-113-SS-D-C-11301-C01

Dimensions	Scale	Size
m	NTS	A3

Figure 6 COAL AUTHORITY ABANDONMENT PLAN REFERENCE 10348_999999_2OF2

DO NOT SCALE FROM THIS DRAWING

N

422424-004

422424-005

422424-023

421424-020

422424-020

LEGEND

Approximate position of the site boundary

Disused mine shaft

Notes:

Positions are indicative only and subject to agreement with the school management, proposed building position and presence of services, and may be re-located.

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	24.01.23	First Issue	BS	MF	MF

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Client
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Project Name
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Description
Coal Authority Abandonment Plan reference GCR153_999999

Project ID	Drawing no.	Revision
323197	11302	C01

File name
323197-HE-113-SS-D-C-11302-C01

Dimensions	Scale	Size
m	NTS	A3

APPENDICES

Appendix A
SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Turner and Townsend (the "Client") in accordance with the terms of a contract between RSK and the Client, dated 22 August 2023. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by an environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.
2. Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the Client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, persistent, bioaccumulative or toxic chemicals (including PFAS and related compounds) or other radioactive or hazardous materials, unless specifically identified in the Services.
7. The Services are based upon RSK's observations of existing physical conditions at the site gained from a visual inspection of the site together with RSK's interpretation of information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services or accreditation system (such as UKAS ISO 17020:2012 clause 7.1.6):
    a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.

b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.

c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the Client and RSK.

8. The intrusive environmental site investigation aspects of the Services are a limited sampling of the site at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope between the client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species are not present.

9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.

10. The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

11. Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works.

12. Unless stated otherwise, only preliminary geotechnical recommendations are presented in this report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed.

Appendix B
SUMMARY OF LEGISLATION AND POLICY RELATING TO LAND CONTAMINATION

Part IIA of the Environmental Protection Act 1990

Part IIA of the Environmental Protection Act 1990 (Part IIA) and its associated Contaminated Land Regulations 2000 (SI 2000/227), which came into force in England on 1 April 2000, formed the basis for the current regulatory framework and the statutory regime for the identification and remediation of contaminated land. Part IIA of the EPA 1990 defines contaminated land as 'any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused'. Controlled waters are considered to include all groundwater, inland waters and estuaries.

In August 2006, the Contaminated Land (England) Regulations 2006 (SI 2006/1380) were implemented, which extended the statutory regime to include Part IIA of the EPA as originally introduced on 1 April 2000, together with changes intended chiefly to address land that is contaminated by virtue of radioactivity. These have been replaced subsequently by the Contaminated Land (England) (Amendment) Regulations 2012, which now exclude land that is contaminated by virtue of radioactivity.

The intention of Part IIA is to deal with contaminated land issues that are considered to cause significant harm on land that is not undergoing development (see Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, April 2012). This document replaces Annex III of Defra Circular 01/2006, published in September 2006 (the remainder of this document is now obsolete).

Water Resources Act (WRA)

The Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009 updated the Water Resources Act 1991, which introduced the offence of causing or knowingly permitting pollution of controlled waters. The Act provides the Environment Agency with powers to implement remediation necessary to protect controlled waters and recover all reasonable costs of doing so.

Water Framework Directive (WFD)

The Water Framework Directive 2000/60/EC is designed to:

- enhance the status and prevent further deterioration of aquatic ecosystems and associated wetlands that depend on the aquatic ecosystems
- promote the sustainable use of water
- reduce pollution of water, especially by 'priority' and 'priority hazardous' substances
- ensure progressive reduction of groundwater pollution.

The WFD requires a management plan for each river basin be developed every six years.

Groundwater Directive (GWD)

The 1980 Groundwater Directive 80/68/EEC and the 2006 Groundwater Daughter Directive 2006/118/EC of the WFD are the main European legislation in place to protect groundwater. The 1980 Directive is due to be repealed in December 2013. The European legislation has been transposed into national legislation by regulations and directions to the Environment Agency.

Priority Substances Directive (PSD)

The Priority Substances Directive 2008/105/EC is a 'Daughter' Directive of the WFD, which sets out a priority list of substances posing a threat to or via the aquatic environment. The PSD establishes environmental quality standards for priority substances, which have been set at concentrations that are safe for the aquatic environment and for human health. In addition, there is a further aim of reducing (or eliminating) pollution of surface water (rivers, lakes, estuaries and coastal waters) by pollutants on the list. The WFD requires that countries establish a list of dangerous substances that are being discharged and EQS for them. In England and Wales, this list is provided in the River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010. In order to achieve the objectives of the WFD, classification schemes are used to describe where the water environment is of good quality and where it may require improvement.

Environmental Permitting Regulations (EPR)

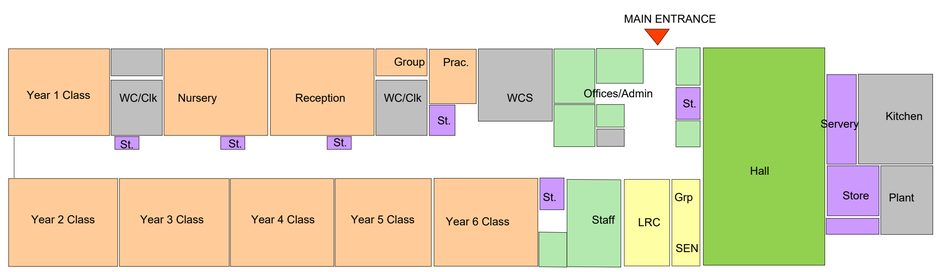
The Environmental Permitting (England and Wales) Regulations 2016 (as amended) provide a single regulatory framework that streamlines and integrates waste management licensing, pollution prevention and control, water discharge consenting, groundwater authorisations, and radioactive substances regulation. Schedule 22, paragraph 6 of EPR 2016 states: 'the regulator must, in exercising its relevant functions, take all necessary measures - (a) to prevent the input of any hazardous substance to groundwater; and (b) to limit the input of non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.'

Notes:

1. *The above information is provided for background but does not constitute site-specific advice*
2. *The above summary applies to England only. Variations exist within other countries of the United Kingdom*

Appendix C
DEVELOPMENT DRAWINGS





SCHEMATIC BUILDING LAYOUT





Notes:

OS Licence No: 100006354

All dimensions to be checked on site.

DO NOT SCALE FROM DRAWING.

Discrepancies ambiguities and/or omissions between this drawing and information given elsewhere must be reported immediately to the architect before proceeding.

THIS DRAWING IS COPYRIGHT.

This drawing is to be read in conjunction with drawings:-

- Grass = 4748m^2
- Habitat Area = 165m^2
- Parking = 1500m^2
- Hard Outdoor P.E / informal Social = 2170m^2
- Building Footprint = 1387m^2 (Single Storey)
- Draft Secure Line
- Extended Site Area = 750m^2

Rev	C	R	Date	AMENDMENT
1	LK	TR	22/02/2023	FIRST ISSUE FOR REVIEW AT HWB3

NAPPER

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Tel: 0203 9066814

Project :
Co- op Acadamy Leeds TA

Client :
DFE / T&T

Feasibility Option 1
single storey - rear of site
(Extended site)

Scale : 1:500 @ A1

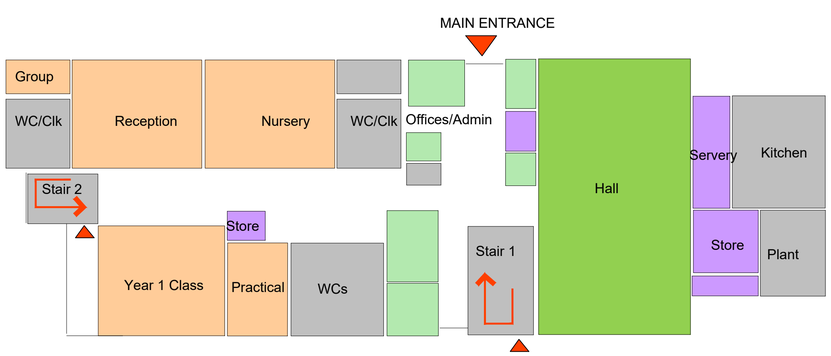
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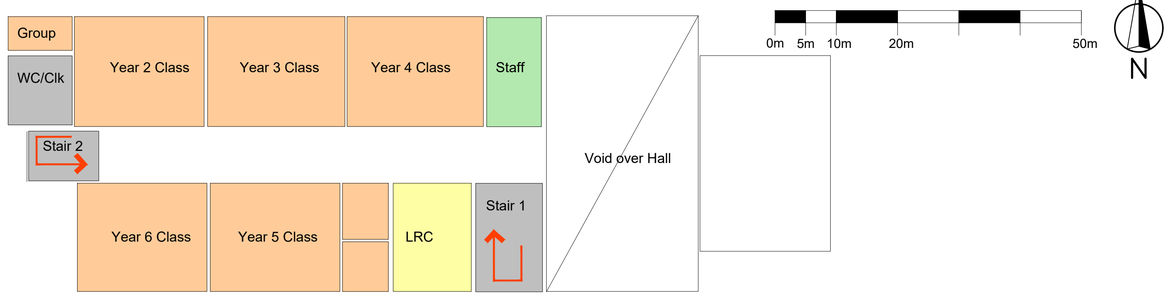
Rev : 1

Drawing Number: 221026-NAP-ZZ- XX-DR-A- 02006





GROUND FLOOR



FIRST FLOOR

SCHEMATIC BUILDING LAYOUT

Notes:

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All dimensions to be checked on site.

DO NOT SCALE FROM DRAWING.

Discrepancies ambiguities and/or omissions between this drawing and information given elsewhere must be reported immediately to the architect before proceeding.

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This drawing is to be read in conjunction with drawings:-

- Grass / Soft Play = 5240m^2
- Habitat Area = 250m^2
- Parking = 735m^2
- Hard Outdoor P.E / informal Social = 1950m^2
- Building Footprint = 925m^2 (Two Storey)
- Draft Secure Line

Rev	C	R	Date	AMENDMENT
1	LK	TR	14/02/2023	FIRST ISSUE FOR COMMENT

NAPPER

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Project :
Co- op Acadamy Leeds TA

Client :
DFE / T&T

Control Option 3

Scale : 1:500 @ A1

Internal Project No : 221026

Drawn : LK

Rev : 1

Drawing Number: 221026-NAP-ZZ- XX-DR-A- 02008

Job Number | Originator | Zone | Level | Type | Role | Drawing Number

Appendix D
TECHNICAL BACKGROUND

H1 Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

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

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the

likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**Highly likely**	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

H2 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a low-flow purging and sampling methodology

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the

re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

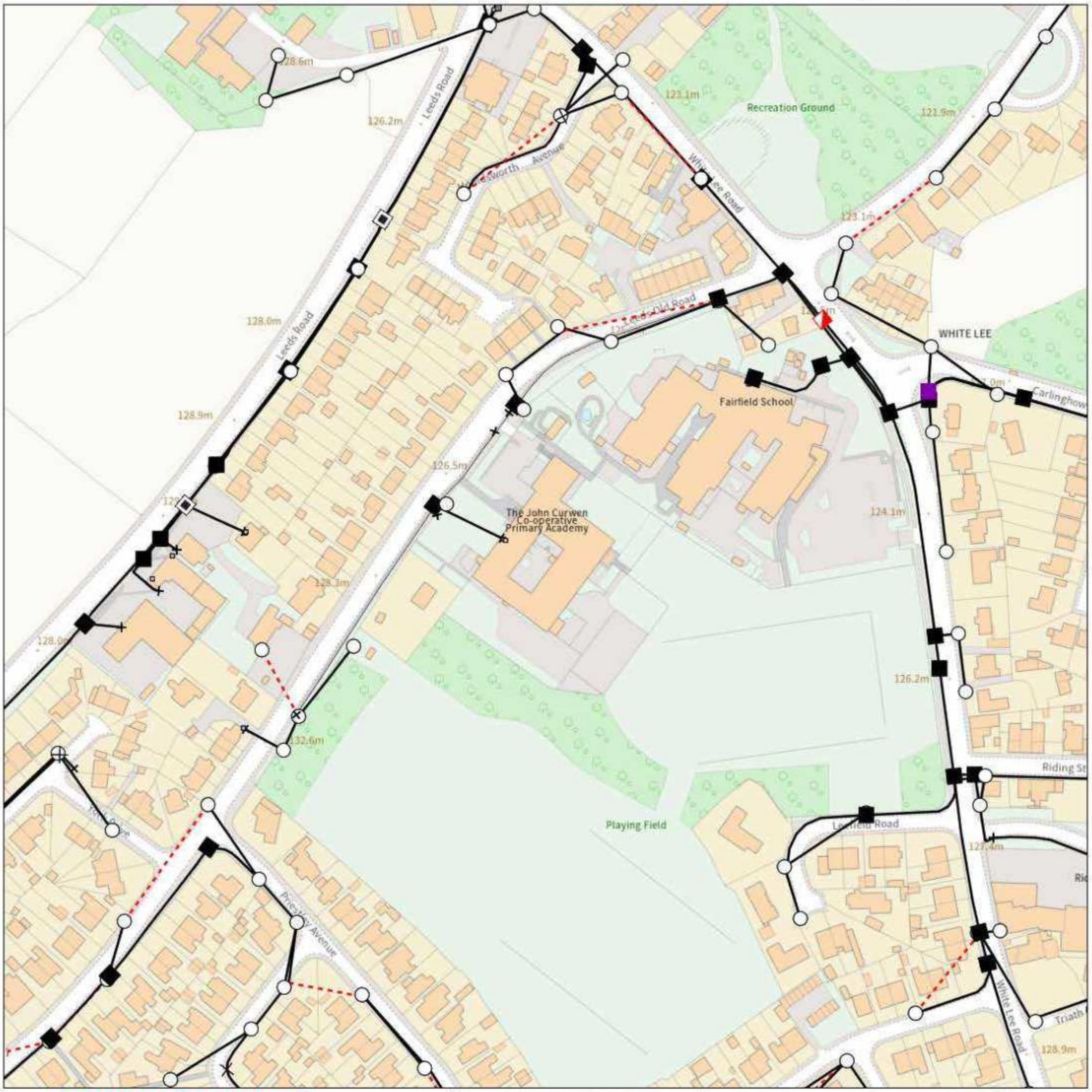
- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.

Appendix E
UTILITY SERVICE PLANS

Maps by email Plant Information Reply



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Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach

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email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
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Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : SIS05481S
Map Reference : (centre) SE2207624957
Easting/Northing : (centre) 422076,424957
Issued : 09/10/2023 17:48:25

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk



bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Disclaimer:

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 09/10/2023

Drawing No.

CFH_EP_000001

Revision

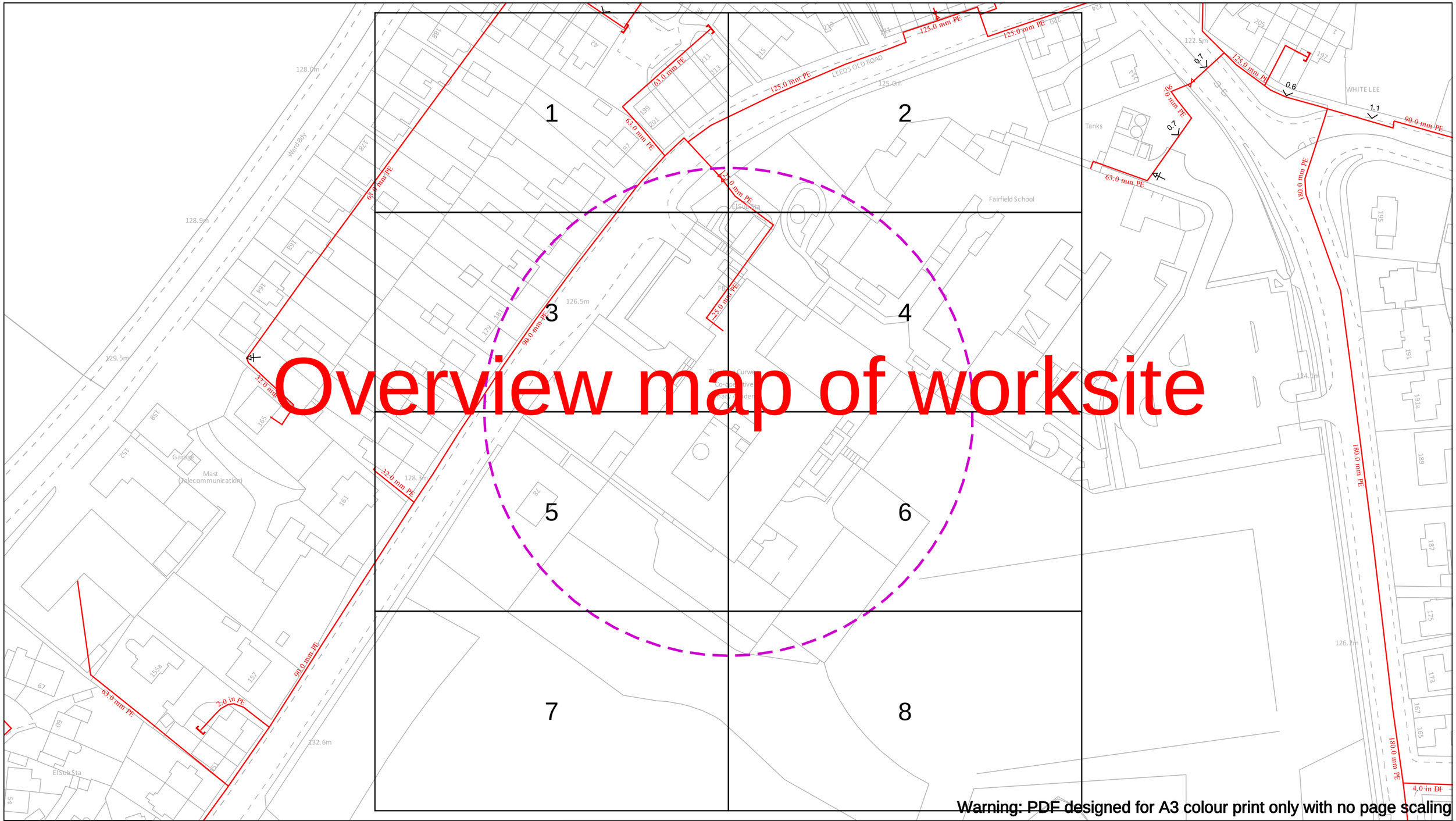
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A4

0m 20m 40m 60m 80m 100m

N



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Your Scheme/Reference:
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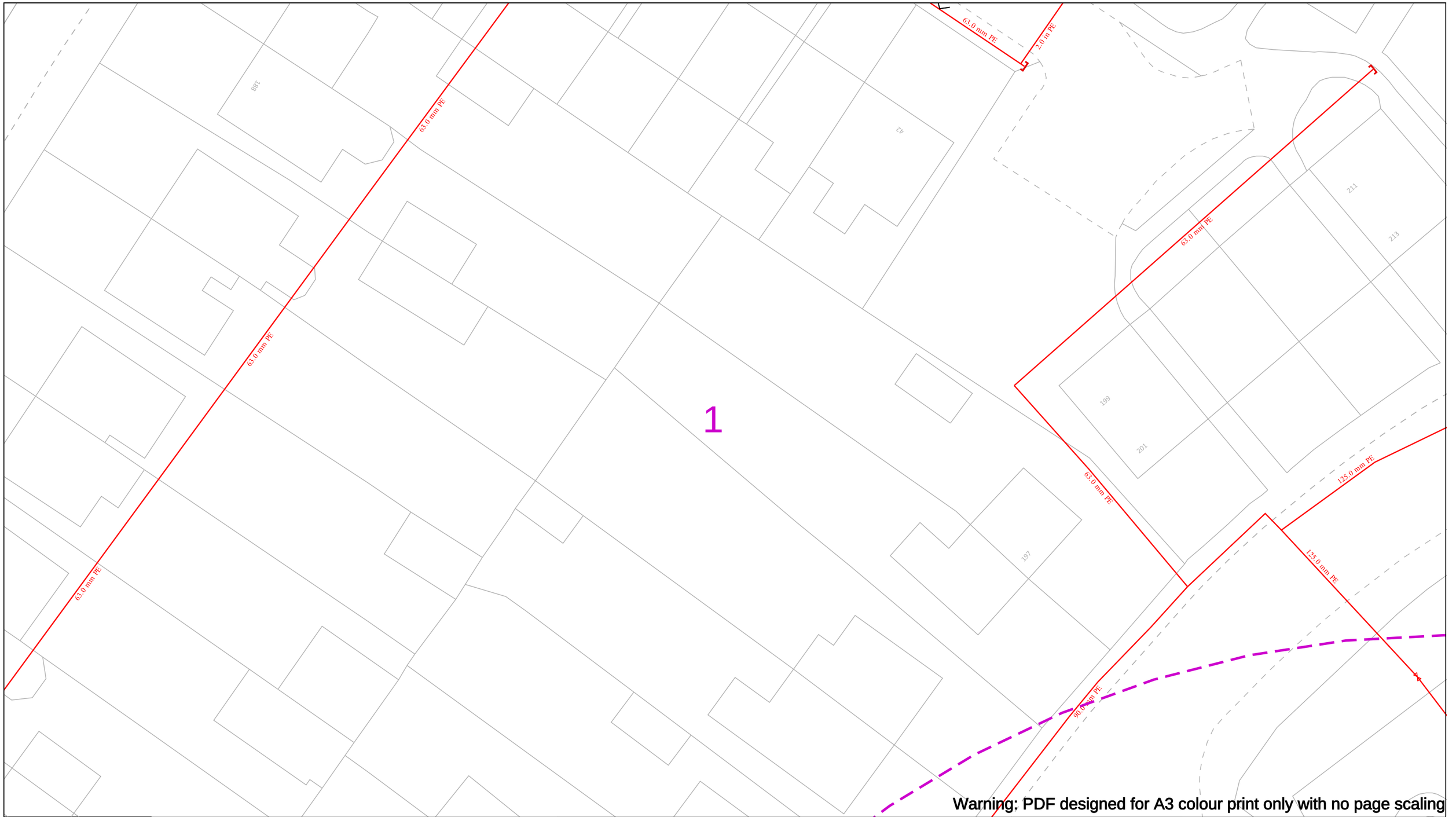
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Dig Sites Area: Line:



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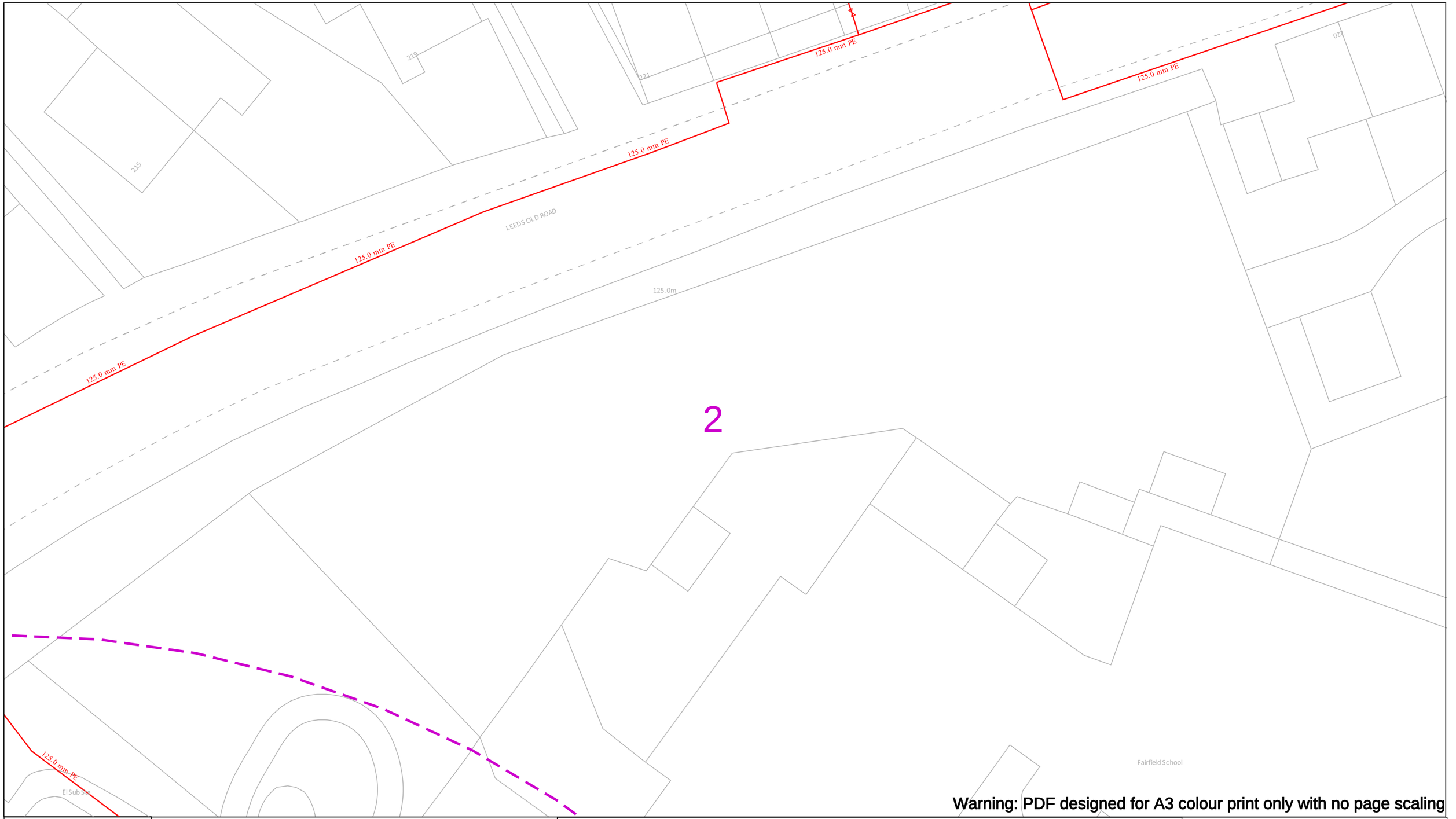
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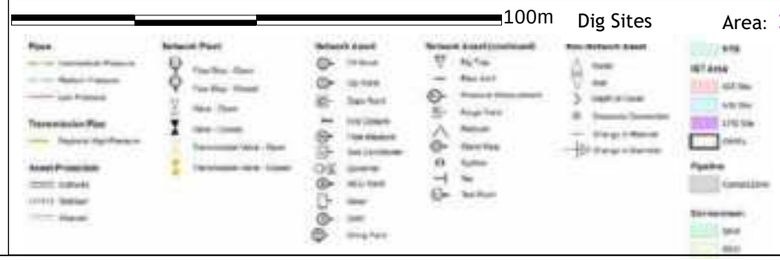
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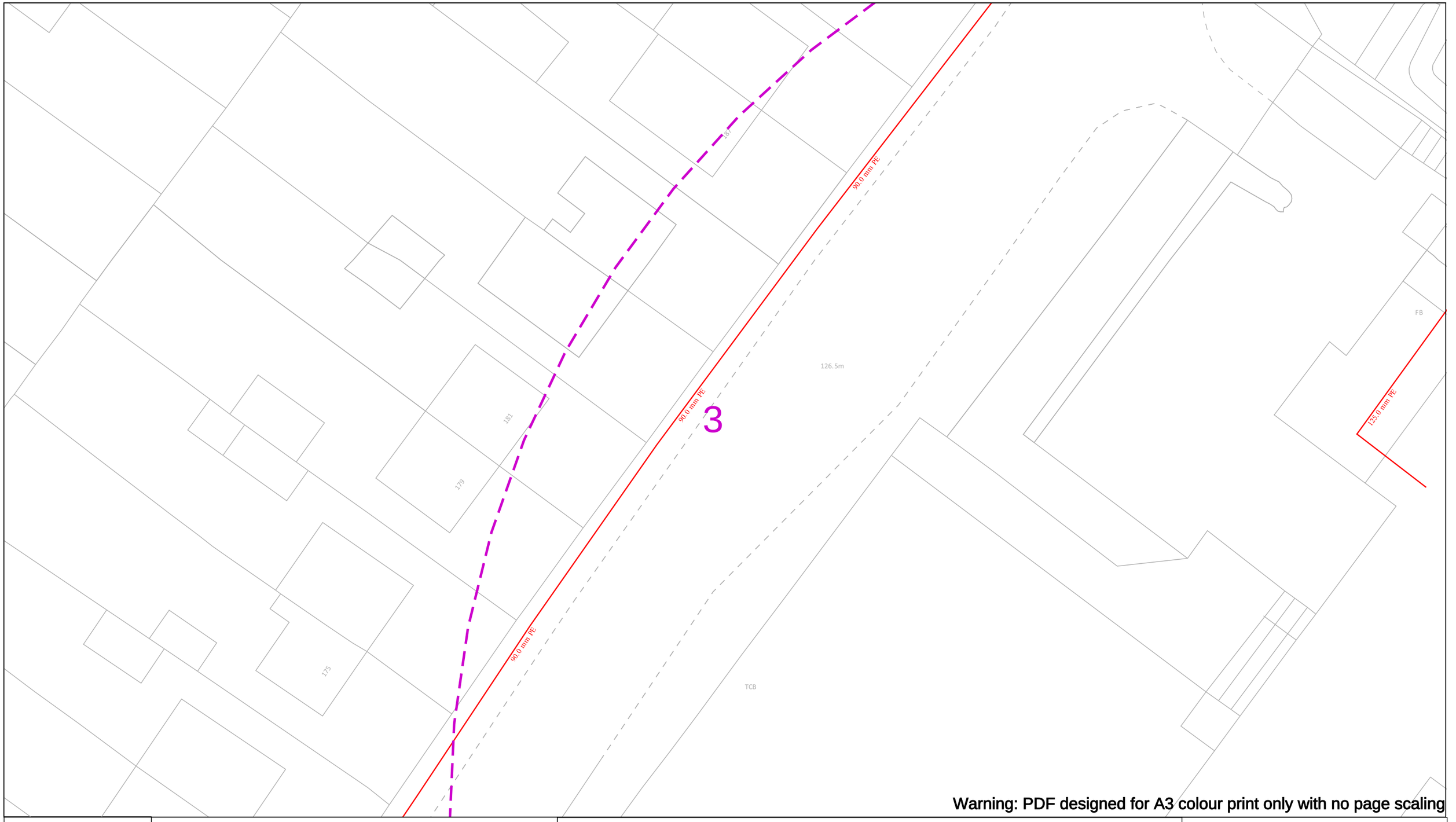
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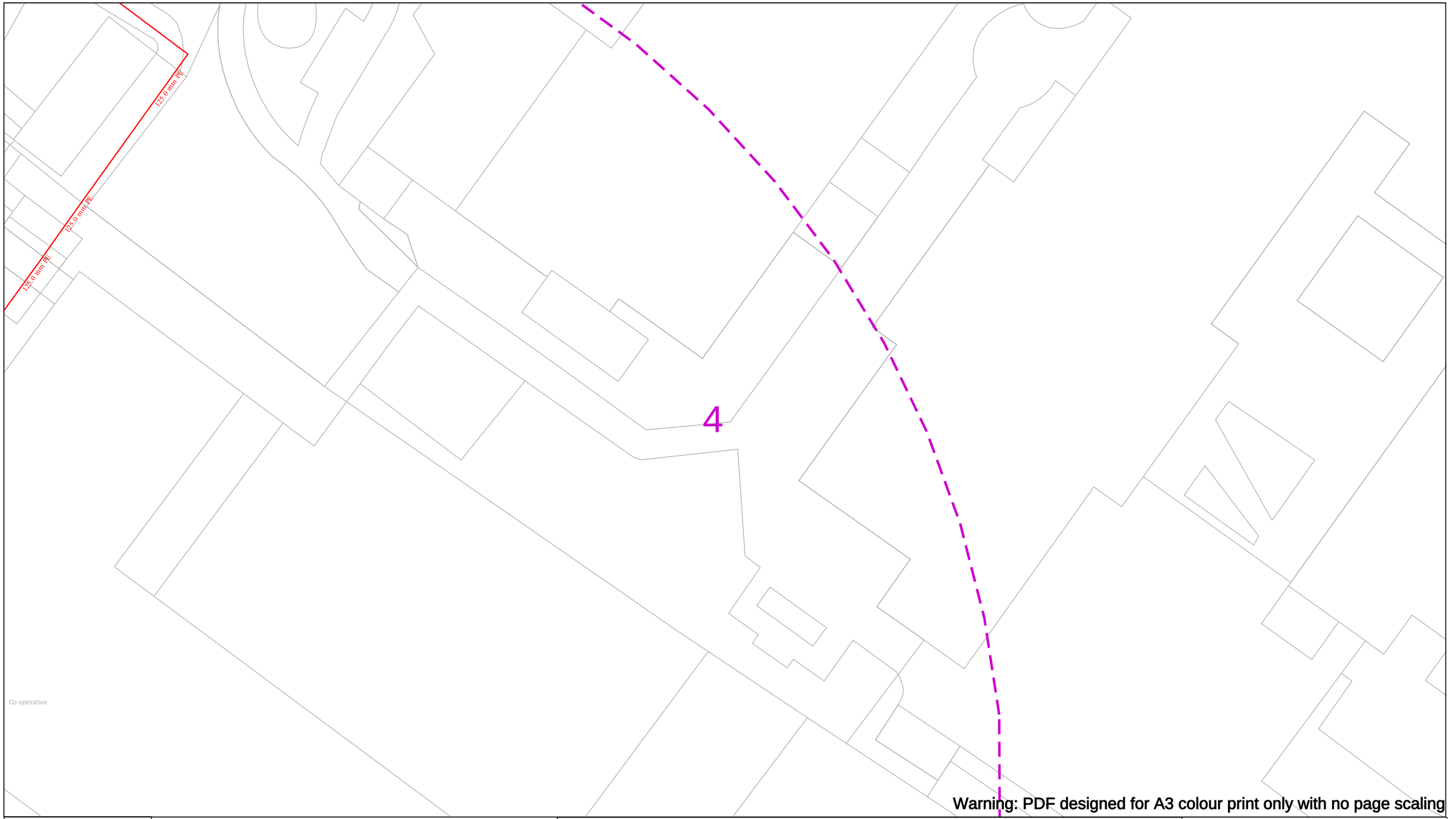
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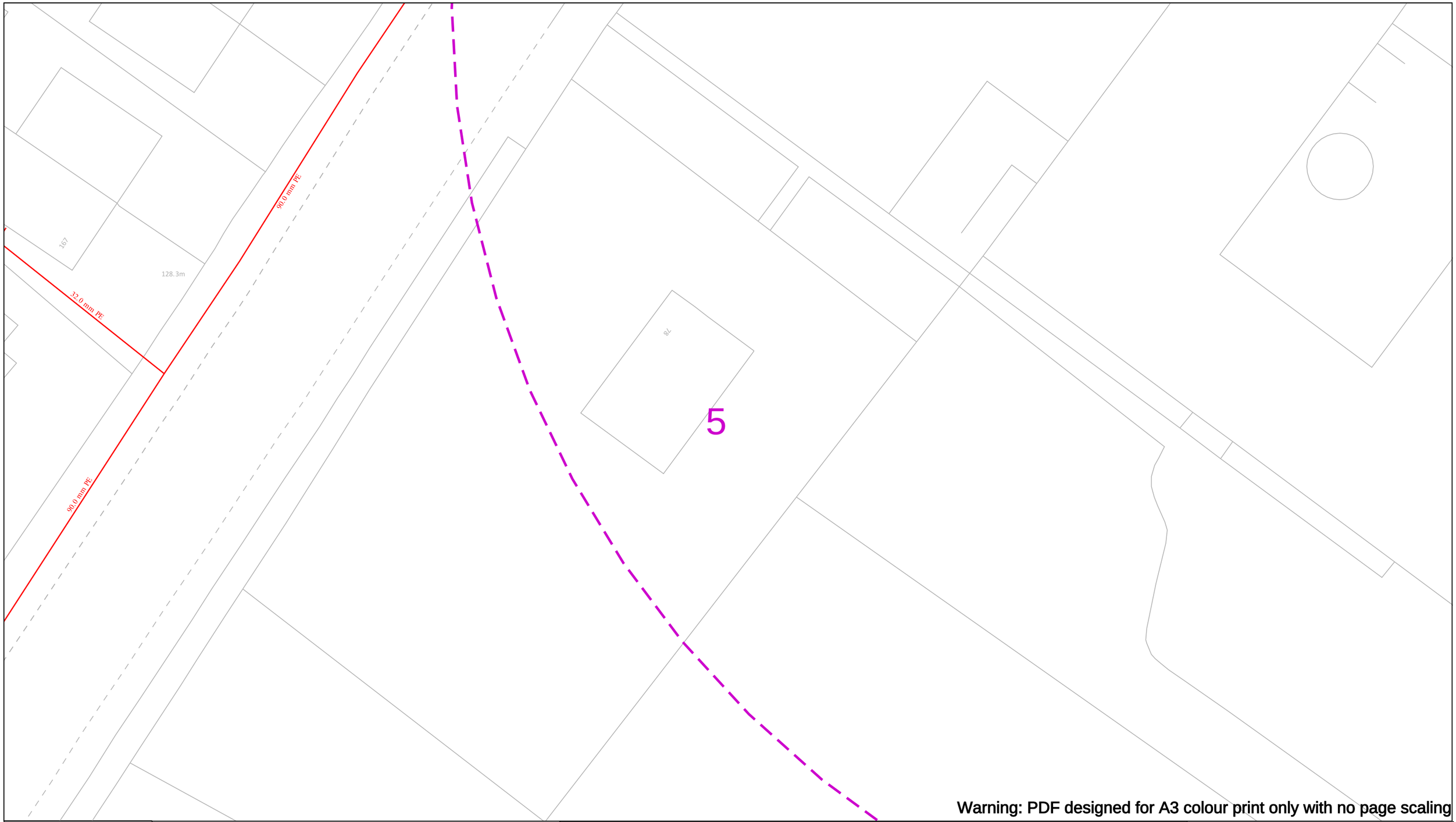
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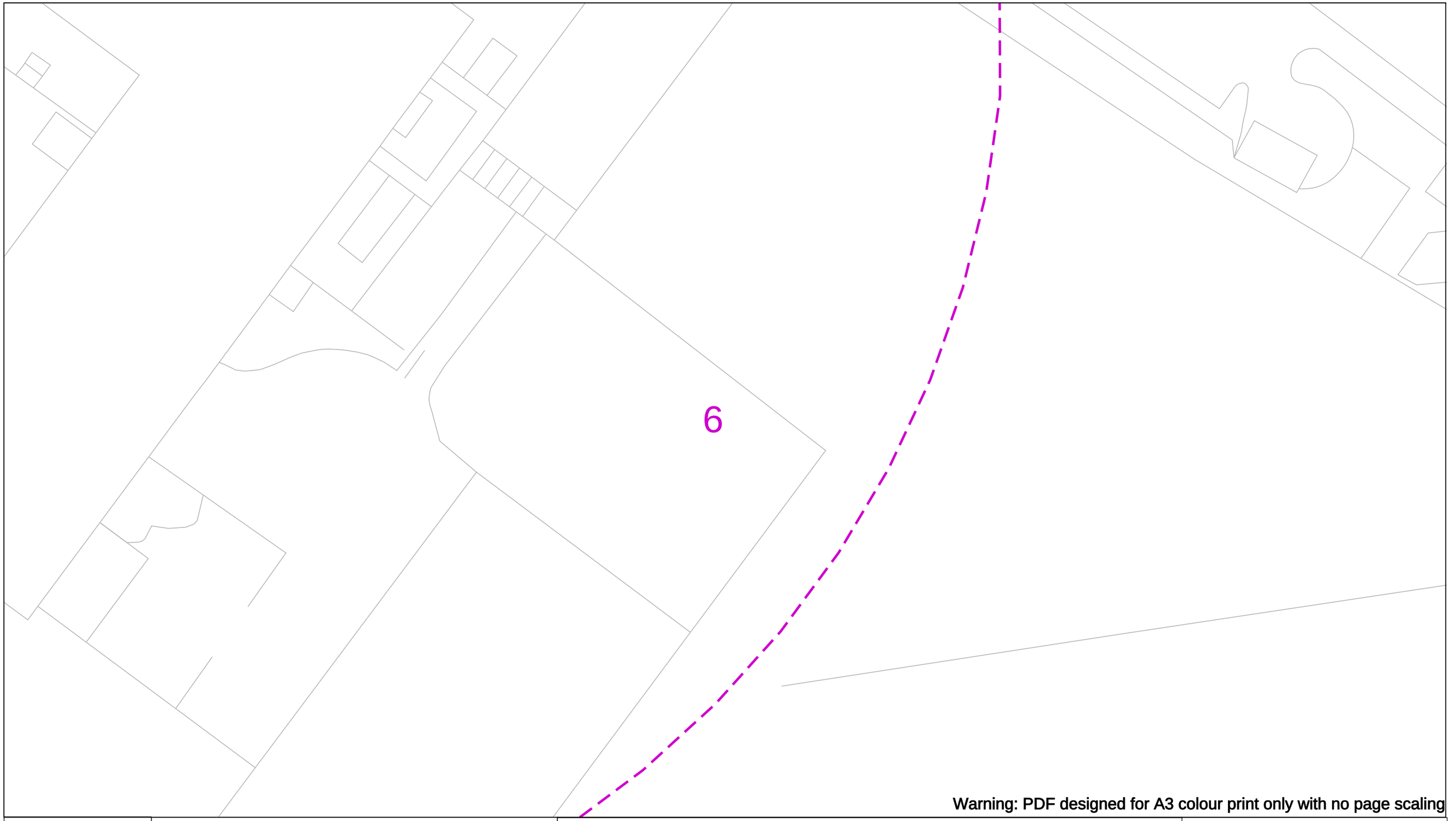
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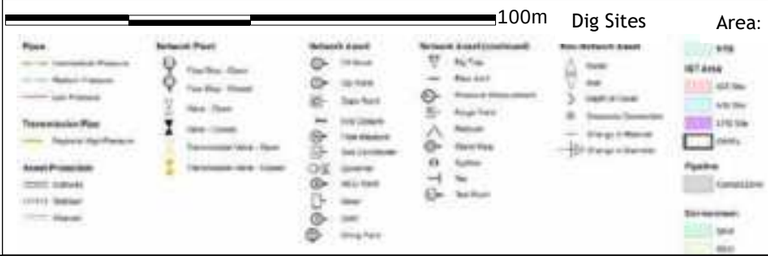
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General Enquiries: 0800 040 7766

Date Requested: 09/10/2023
Job Reference: 31123736
Site Location: 422076 424957
Requested by:
Miss Monique Elsom
Your Scheme/Reference: 323197

Scale: 1:250 (When plotted at A3)

IMPORTANT NOTICES

This plan shows those pipes owned by Northern Gas Networks or the relevant Gas Distribution Network in their roles as Licensed Gas Transporters (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Northern Gas Networks, the relevant Gas Distribution Network, or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

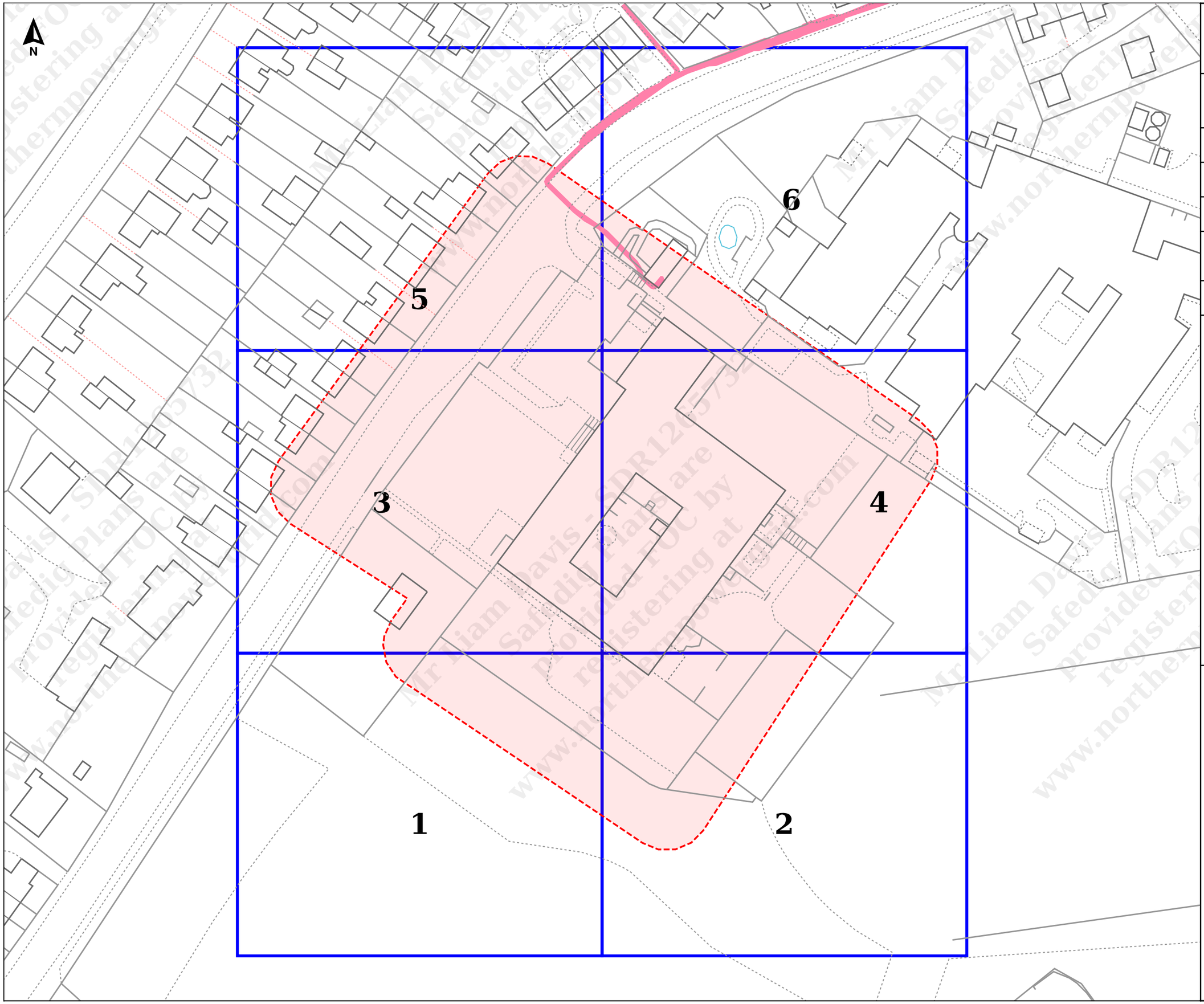
In case of an emergency call 0800 111 999

100m Dig Sites Area: Line:



Northern Gas Networks

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NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:800

Grid Coordinates : 422067 424957

Date : 09/10/2023

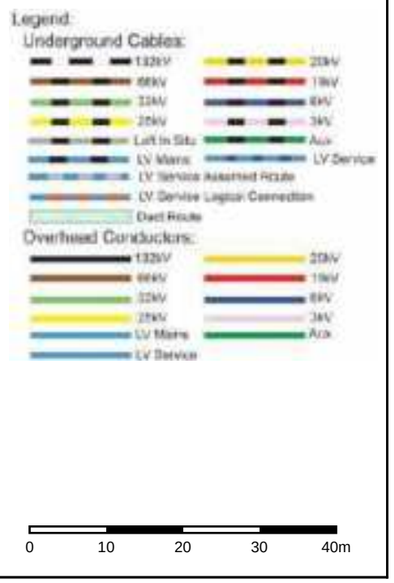
Produced For :
Mr Liam Davis

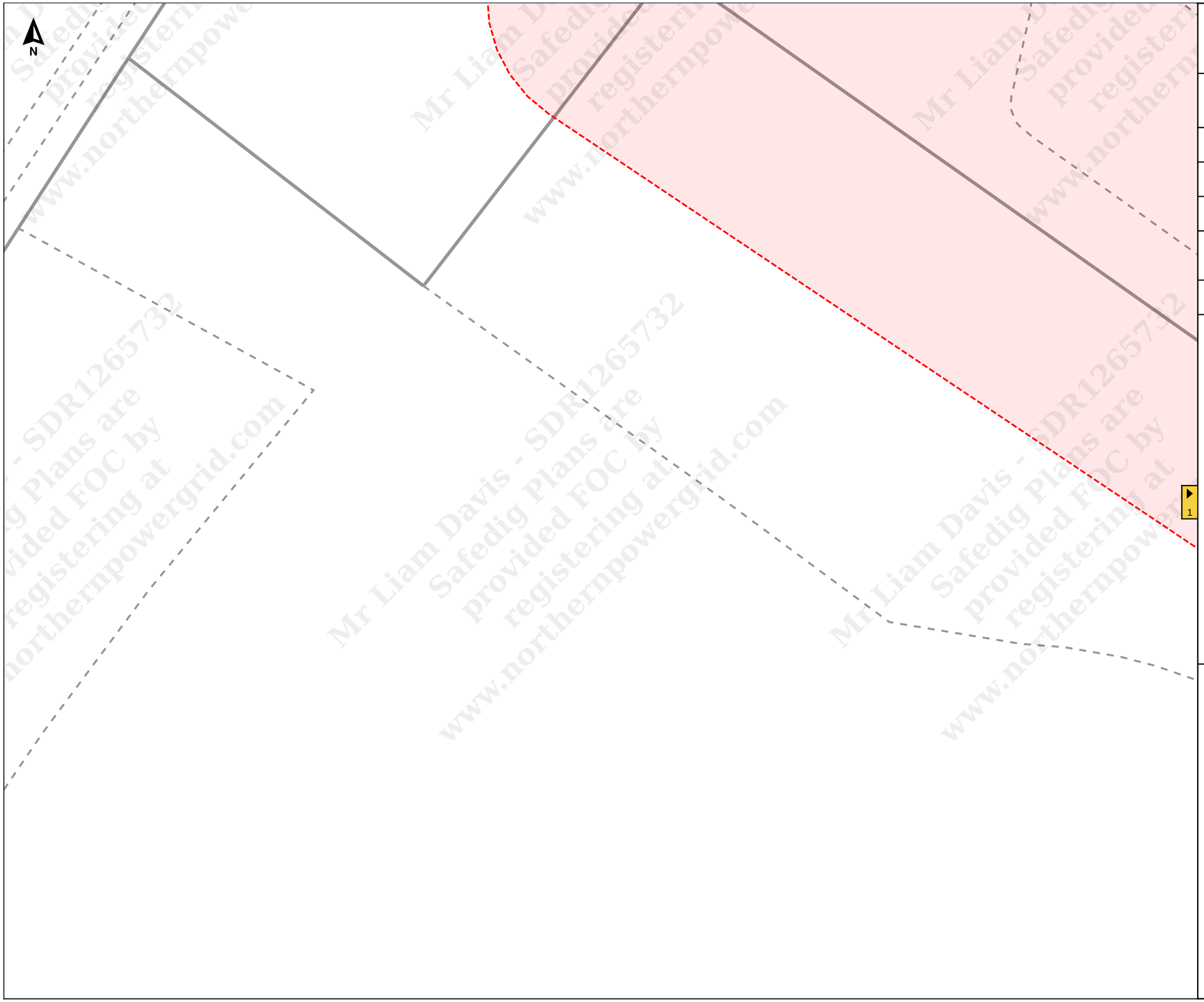
Overview Page

Terms and Conditions

Electric cables and/or overhead line information shown on the record plans are to be used in accordance with the Health & Safety Executive's Booklet HS(G)47, "Avoiding Danger from Underground Services" and Guidance Note GS 6, "Avoidance of Danger from Overhead Electric Lines".
Record plans do not always show out of commission cables or service cables from Northern Powergrid\'s mains to adjoining or cross road properties.
Plans do not show local authority owned public lighting or sign cables. The information is provided as a service by NorthernPowergrid and does not impart any legal obligation on their part.
Persons using it are reminded of their responsibility to execute works safely to avoid damaging Northern Powergrid\'s apparatus.

Further advice or assistance is available from the Records Information Centre on 0191 2294296
In an emergency or outside normal working hours contact our customer information centre on 0800 668877
Cable depths shown were correct at the time cables were laid however alterations to ground levels or cable disposition may have taken place.





NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422025 424888

Date : 09/10/2023

Produced For :
Mr Liam Davis

Terms and Conditions

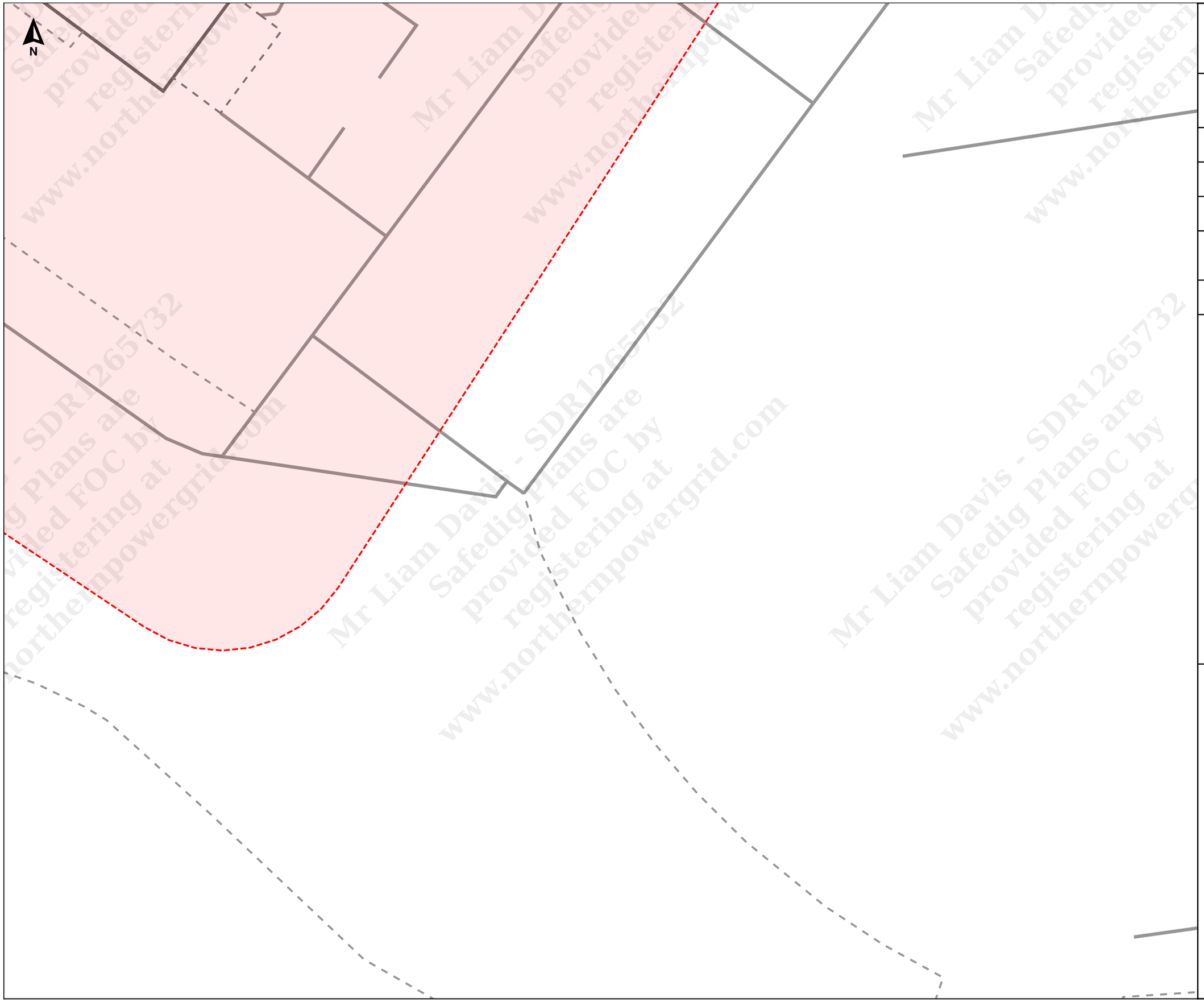
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Legend:







NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422109 424888

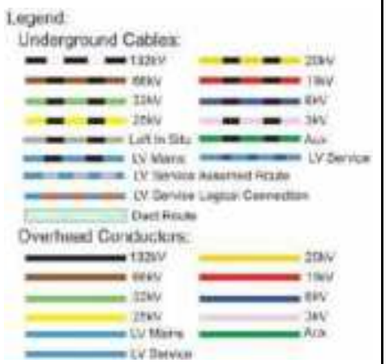
Date : 09/10/2023

Produced For :
Mr Liam Davis

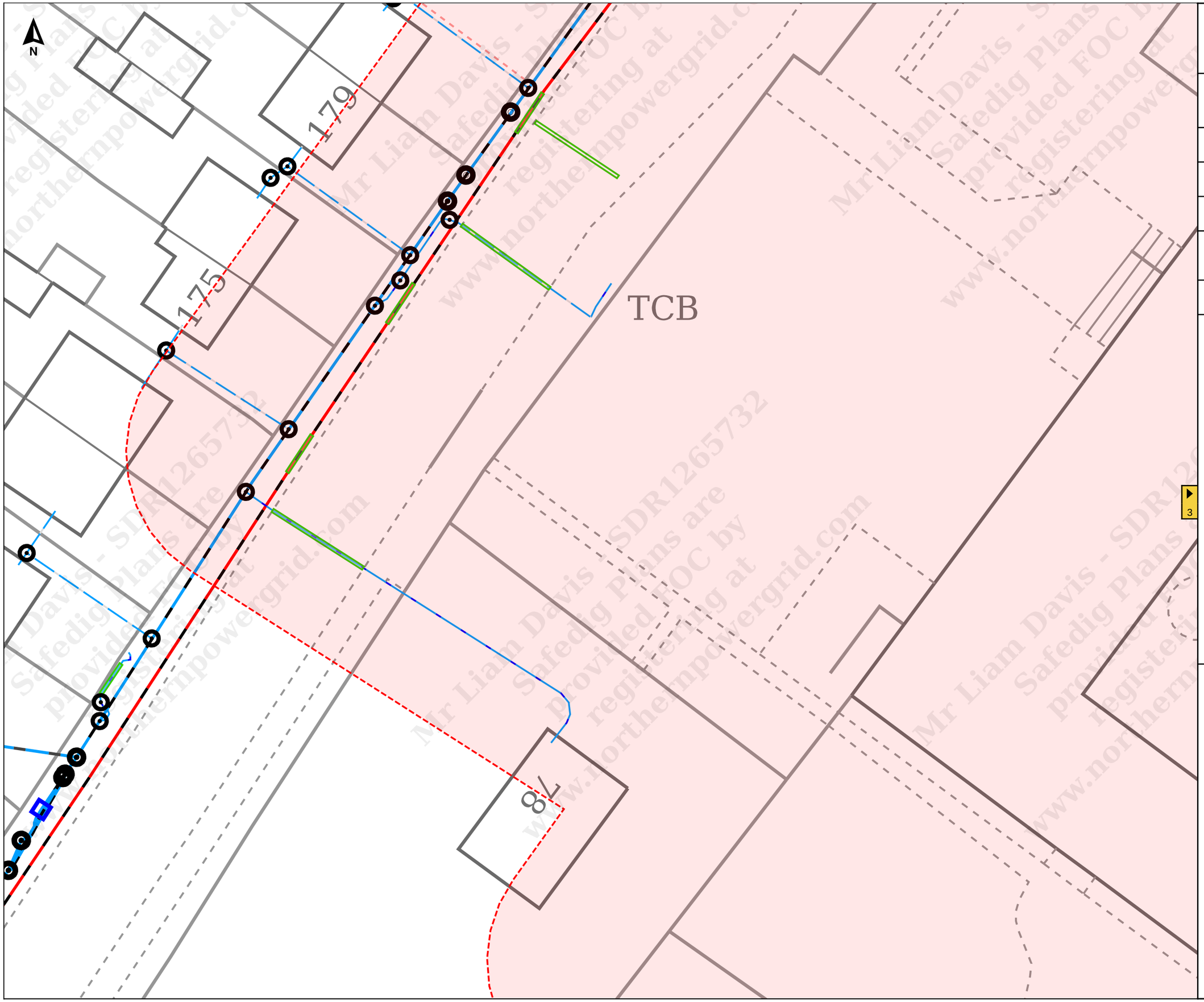
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NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422025 424957

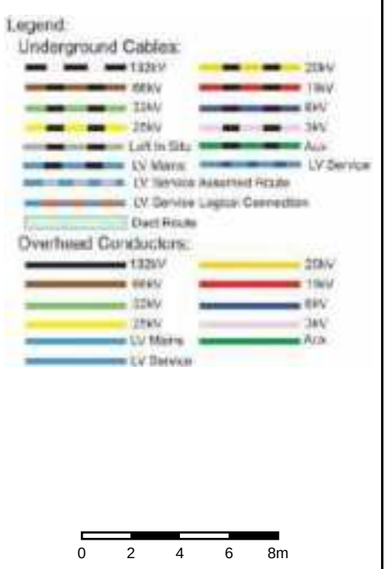
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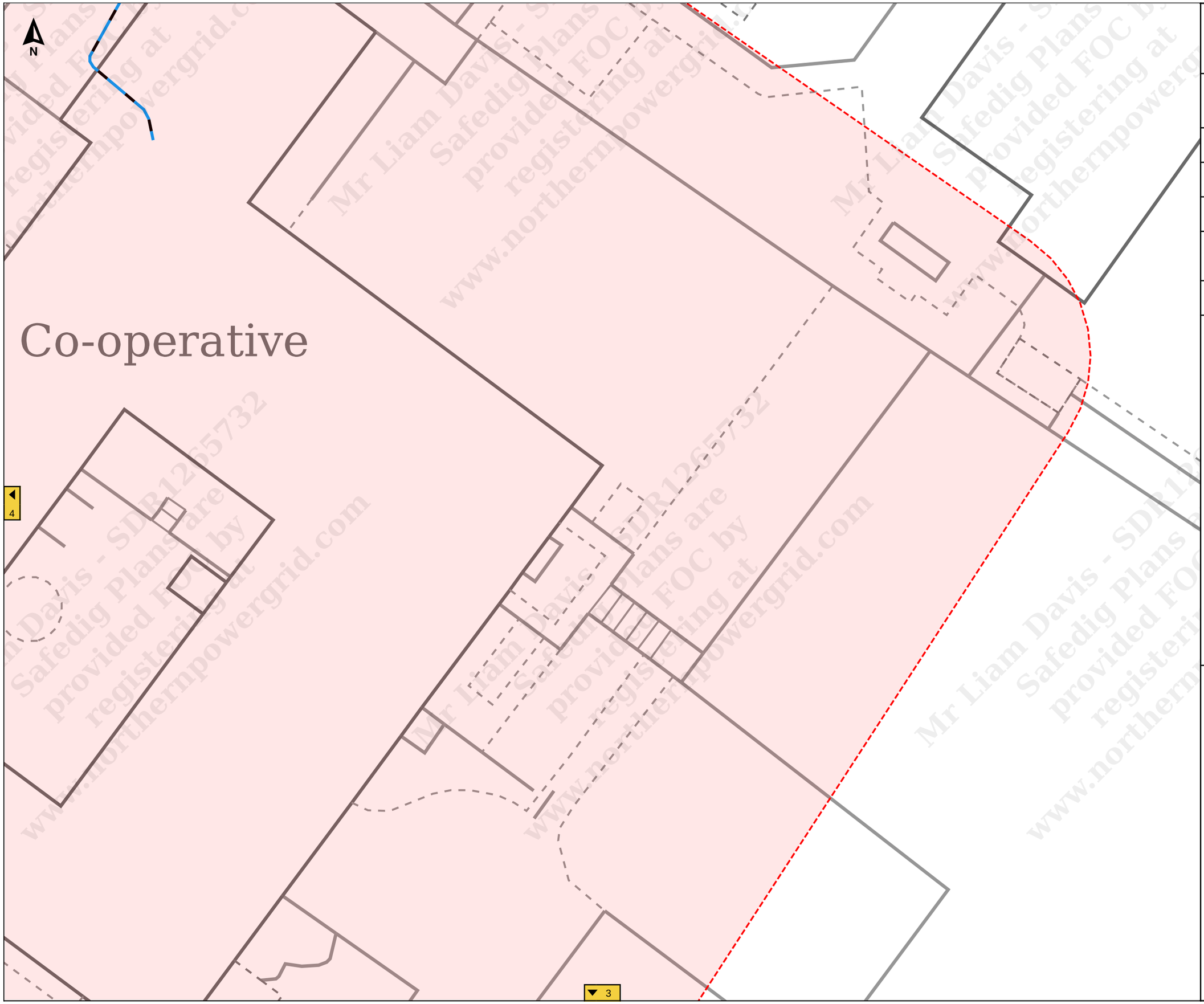
Produced For :
Mr Liam Davis

Terms and Conditions

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NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422109 424957

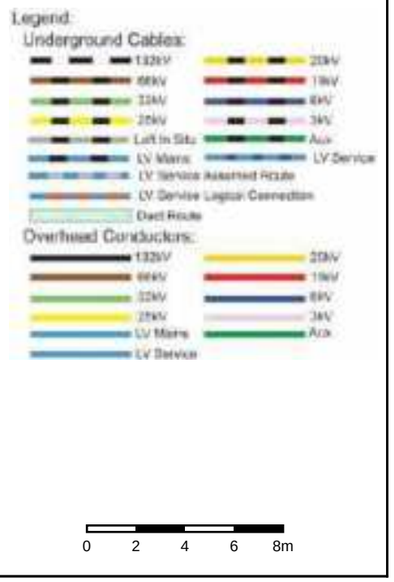
Date : 09/10/2023

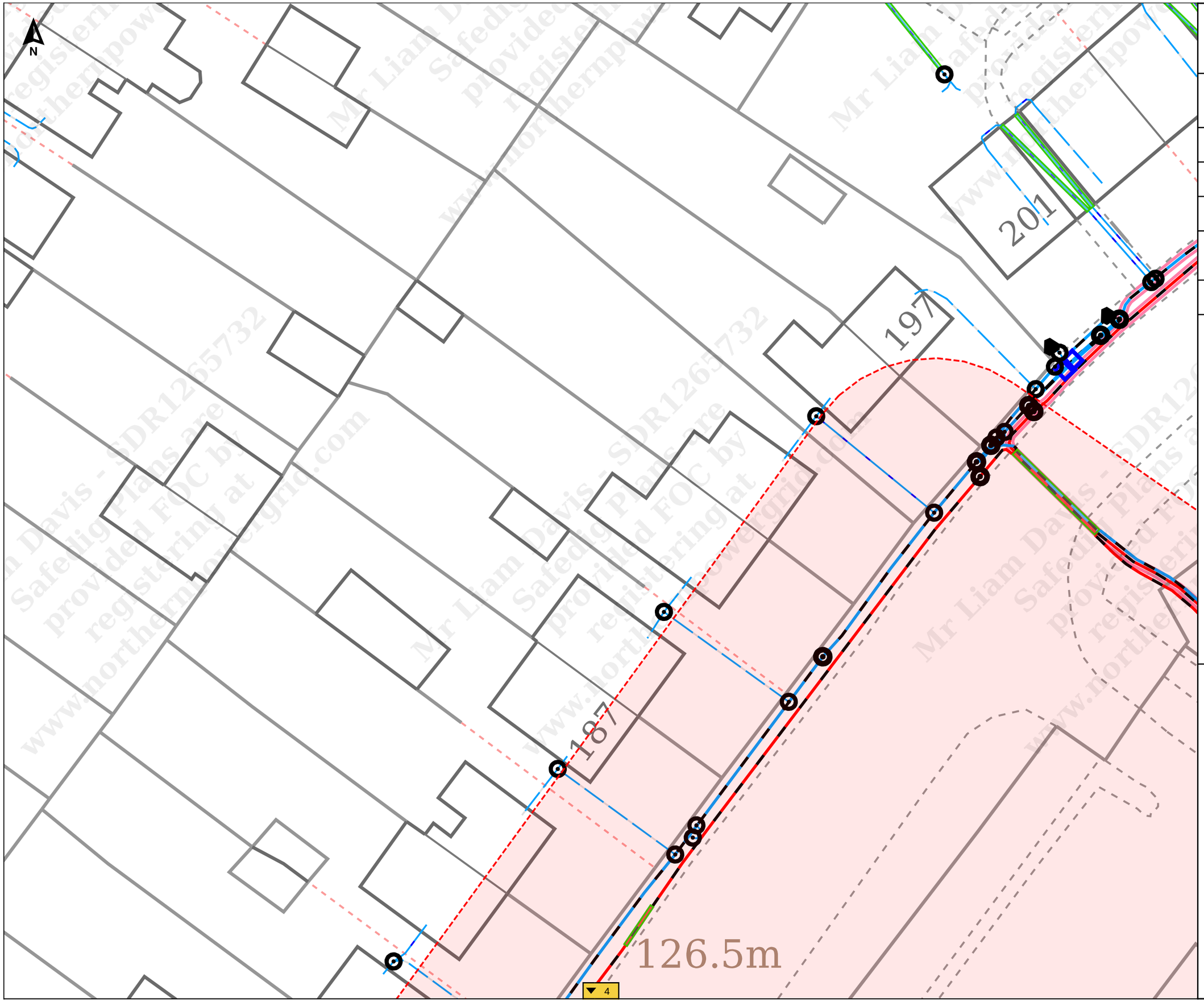
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NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422025 425026

Date : 09/10/2023

Produced For :
Mr Liam Davis

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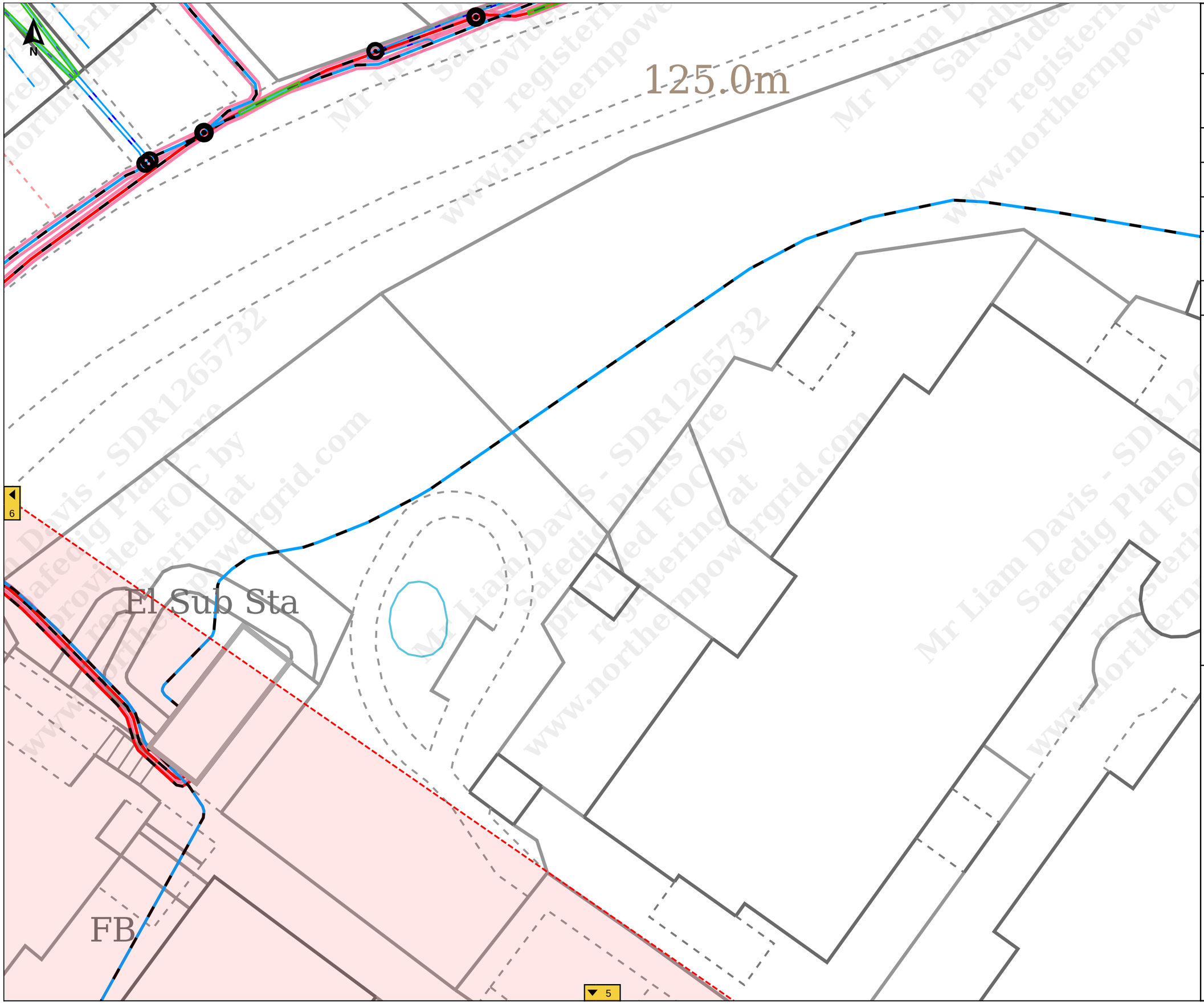
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Legend:

Underground Cables:
132kV
66kV
33kV
25kV
Left In Situ
LV Mains
LV Service Assumed Route
LV Service Logical Connection
Duct Route
20kV
11kV
6kV
3kV
Aux
LV Service

Overhead Conductors:
132kV
66kV
33kV
25kV
LV Mains
LV Service
20kV
11kV
6kV
3kV
Aux

0 2 4 6 8m



NORTHERN POWERGRID

Job Reference : SDR1265732

323197

Scale : 1:250

Grid Coordinates : 422109 425026

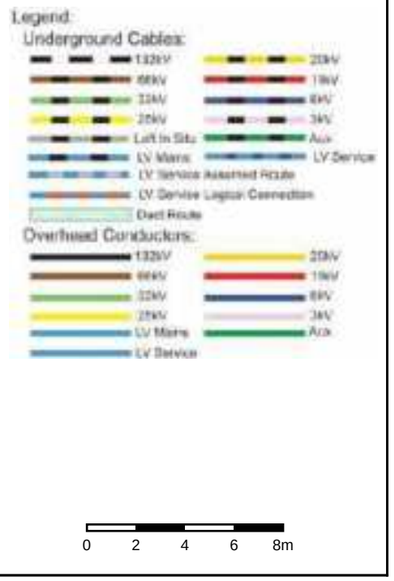
Date : 09/10/2023

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(c) Crown copyright and database rights 2023 Ordnance Survey 100019209 Date: 09/10/23 Scale: 1:1250 Map Centre: 422080,424953 Data updated: 02/10/23 Our Ref: 1292348 - 1 Telecoms Plan A4

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2023 Ordnance Survey 100019209.

Duct Trench

Chamber / Pole

Cabinet

ldavis@rsk.co.uk

323197



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Legend

- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Active - Leased

vodafone

Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Plot Date : 10/10/2023	Scale : 1:1250

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from
Vodafone or its appointed agents.

YORKSHIRE WATER
PROTECTION OF MAINS AND SERVICES

1. The position of Yorkshire Water Services Ltd (YWS) apparatus shown on the existing mains record drawing(s) indicates the ***general*** position and nature of our apparatus and the accuracy of this information cannot be guaranteed. Any damage to YWS apparatus as a result of your works may have serious consequences and you will be held responsible for all costs incurred. Prior to commencing major works, the exact location of apparatus must be determined on site, if necessary by excavating trial holes. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline on 0845 124 24 24 for both water and sewerage.

2. The public sewer and water network is lawfully retained in its existing position and the sewerage and water undertaker is entitled to have it remain so without any disturbance. The provisions of section 159 of the Water Industry Act 1991 provides that the undertaker may "inspect, maintain, adjust, repair or alter" the network. Those rights are given to enable the undertaker to perform its statutory duties. Any development of the land or any other action that unacceptably hindered the exercise of those rights would be unlawful. The provisions contained in Section 185 of the Water Industry Act 1991 state that where it is reasonable to do so, a person may require the water supply undertaker to alter or remove a pipe where it is necessary to enable that person to carry out a proposed change of use of the land. The provisions contained in Section 185 also require the person making the request to pay the full cost of carrying out the necessary works.

3. Ground levels over existing YWS apparatus are to be maintained. Sewers in highways will ***generally*** be laid to give 1200mm of cover from finished ground level working to kerb races, other permanent identification of the limits of the road or to an agreed line and level. Substantial increases or decreases to this 1200mm depth of cover will result in the sewer being re-laid at your expense. Water mains and services will ***generally*** be laid with a minimum of 750mm depth of cover however some mains and services usually those installed over 50 years ago may have less ground cover.

4. If surface levels are to be decreased / increased significantly the effects on existing water supply apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.

5. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe or 1000mm of a waste water asset. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45o and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter *(see illustration below)*. Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis. Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.

6. All excavation works near to YW apparatus should be by hand digging only.

7. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.

8. Adequate support must be provided where any works pass under YW apparatus.

9. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.

10. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. YWS surface boxes must not be covered or buried. Any adjustment, alteration or replacement of manhole covers must be agreed on site prior to the commencement of the works with a YWS Inspector who may be contacted via our Call Centre on 0845 124 24 24.

11. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.

12. Vibrating plant should not be used directly over any apparatus. Movement or operation by vehicles or heavy plant is not to be permitted in the immediate vicinity of YWS plant or apparatus unless there has been prior consultation and, if necessary, adequate protection provided without cost to YWS.

13. ***Under no circumstances*** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.

14. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works).

15. You will be held responsible for any damage or loss to YWS apparatus during and after completion of work, caused by yourselves, your servant or agent. Any damage caused or observed to YWS plant or apparatus should be immediately reported to YWS. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.

16. You should ensure that nothing is done on the site to prejudice the safety or operation of YWS employees, plant or apparatus.

17. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset "*which is not marked, or is wrongly marked, on the records made available*" should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water (Asset Records Team) with photographic supporting evidence where possible.

18. The Government has decided that responsibility for private sewers serving two or more properties and lateral drains (the section of pipe beyond the boundary of a single property, connecting it to the public sewer) will be transferred to the water companies on Oct 1 2011.

Private pumping stations will also transfer during the period 1 October 2011 – 1 Oct 2016. Records of these assets may not yet be shown on the existing mains record drawing(s). If you encounter any of these assets you must inform Yorkshire Water Services Ltd (YWS).

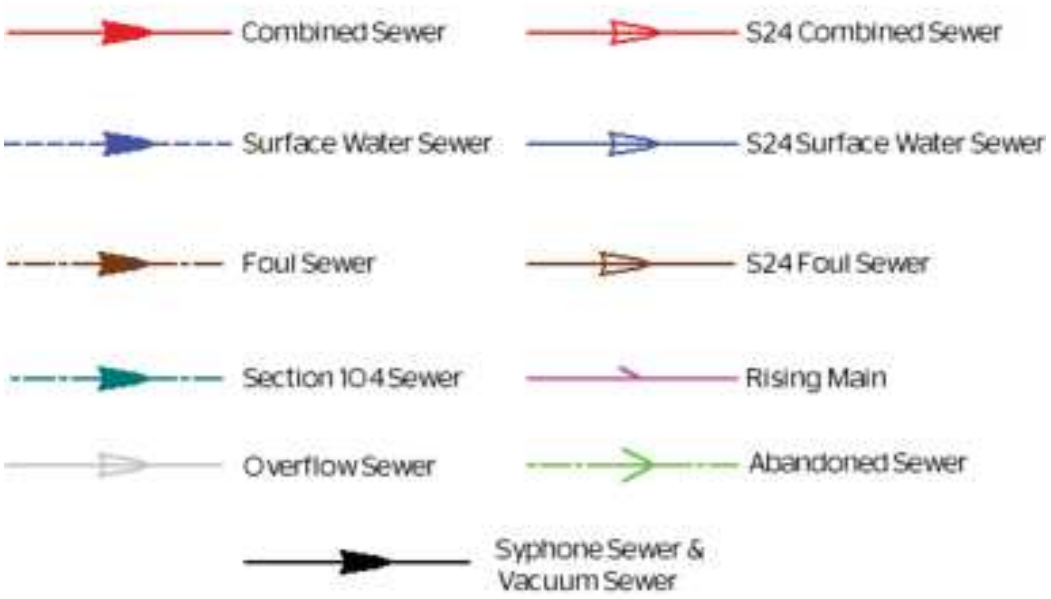
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20. This information is for guidance only and the position and depth of any YW apparatus is approximate only. Likewise, the nature and condition of any YW apparatus cannot be guaranteed. YW has no responsibility for recording the locations of privately owned apparatus. As of 1 October 2011, there may be some lateral drains and/or public sewers which are not documented on YW records but may still be present. For the avoidance of doubt, this information is not a substitute for appropriate professional and/or legal advice. YW accepts no responsibility for any inaccuracy or omissions in this information. The actual position of YW apparatus must be determined on site by excavating trail holes by hand. YW requires a minimum of two working days' written notice of the intention to excavate any trial holes before any excavation can be undertaken. If there are any queries in this respect please contact Yorkshire Water on 0845 124 24 24.

Property Identfier



Sewer Legend

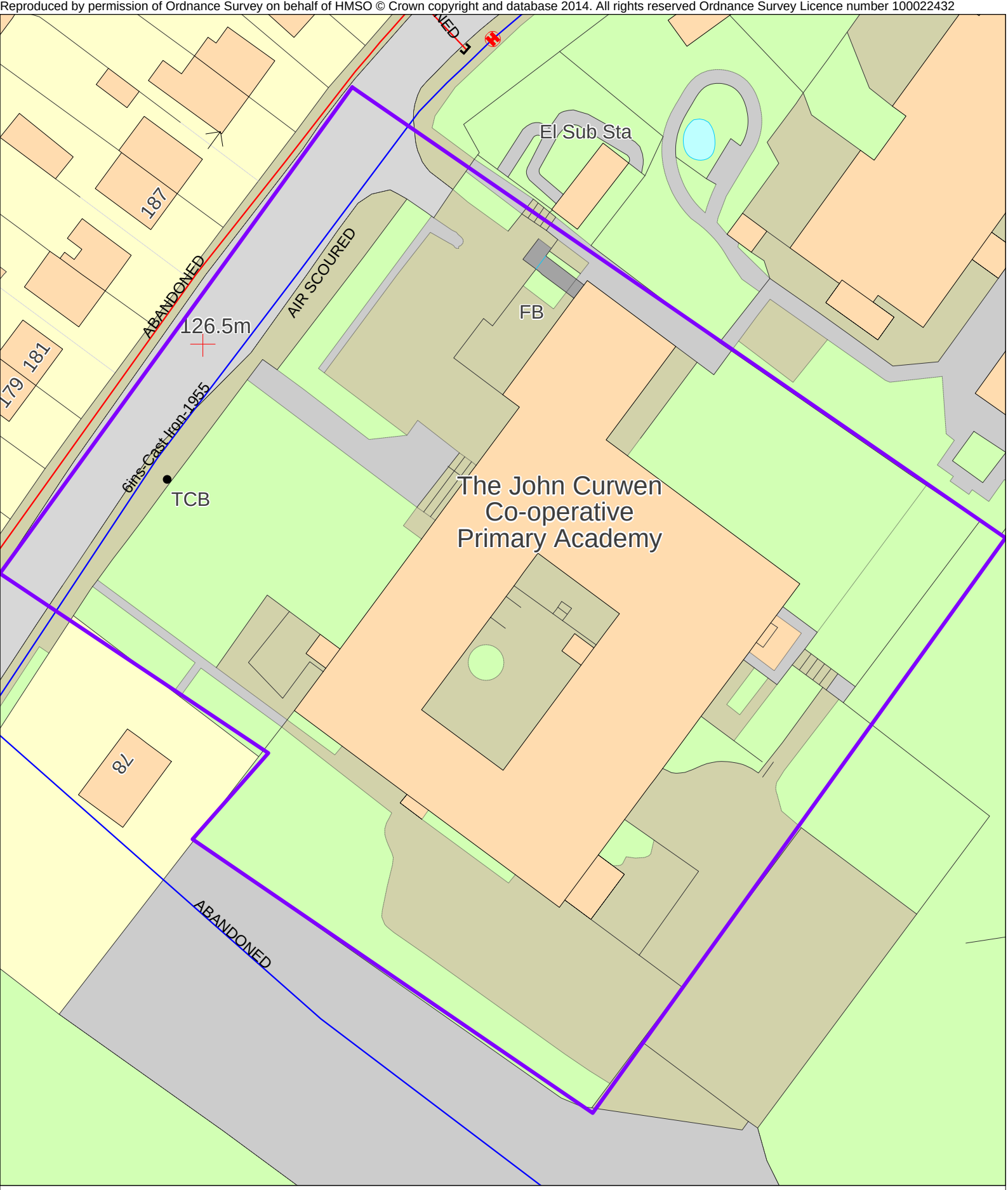


Please note that the direction of flow arrows may not always appear depending on the scale of the map.

Water Legend



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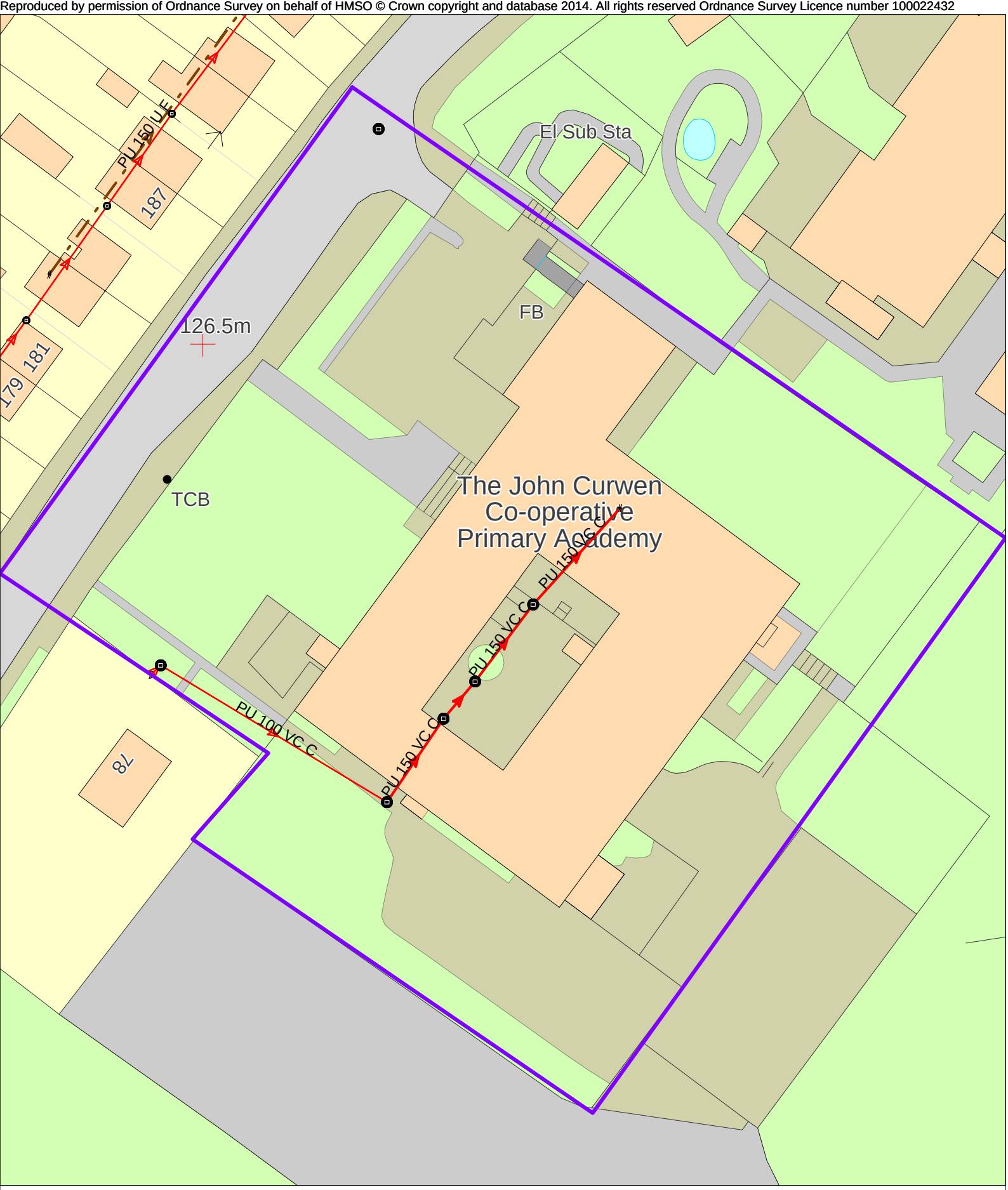


Public Clean Water Network 09/10/2023 17:56:52 OS Grid Coordinates: 422004 : 424881 Map Name : SE2224NW svcGISSafeMovePD

Registered office, Yorkshire Water Services Limited, 1 Western House, Halifax Road, Bradford BD6 2SZ
Registered in England and Wales No. 2366682

SafeMove

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Public Waste Water Network 09/10/2023 17:56:54 OS Grid Coordinates: 422004 : 424881 Map Name : SE2224NW svcGISSafeMovePD

Registered office, Yorkshire Water Services Limited, 1 Western House, Halifax Road, Bradford BD6 2SZ
Registered in England and Wales No. 2366682

SafeMove

Enquiry Confirmation

LSBUD Ref: 31123736

Date of enquiry: 09/10/2023
Time of enquiry: 17:08

Enquirer

Name	Miss Monique Elsom	Phone	07393464647
Company	RSK	Mobile	Not Supplied
Address	Spring Lodge Spring Lodge 172 Chester Road Helsby Hertfordshire WA6 0AR		
Email	DeskBasedUtilities@rsk.co.uk		

Enquiry Details

Enquiry type	Planned Works
Work category	Excavations Non Utility
Work type	Multiple excavations site (deeper than 1.5m)
Work type buffer*	50 metres
Start date	16/10/2023
End date	16/10/2023
Scheme/Reference	323197
Search location	WF16 9BB
Confirmed location	422076 424957
Site size	140 metres diameter
Site Contact Name	Frances Clayton
Site Phone No.	07917187804
Description of Works	Utility Plans Only

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

(LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)

Asset Owner	Phone/Email	Emergency Only	Status
Northern Gas Networks Limited	08000407766 (opt 5)	0800111999	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Enquiry Confirmation
LSBUD Ref: 31123736

Date of enquiry: 09/10/2023
Time of enquiry: 17:08

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/linesearchbeforeudig-support) for further guidance.
This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.
Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.
Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members
(LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cadent Gas
Cambridgeshire County Council Climate Change and Energy Services	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EDF Energy Renewables Ltd	EirGrid	Eleclink Limited
Electricity North West Limited	Energy Assets Networks	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESB CCGT Power station (Carrington Gas Pipeline)
ESP Utilities Group	ESSAR	Esso Petroleum Company Limited
euNetworks Fiber UK Ltd	EXA Infrastructure	Exolum Pipeline System
Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited	Gamma
Gas Networks Ireland (UK)	Gateshead Energy Company	Gigaclear Ltd
Harbour Energy	Heathrow Airport LTD	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Kensa Utilities	Last Mile
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	Moray East Offshore Windfarm
MUA Group Limited	National Gas Transmission	National Grid Electricity Distribution
National Grid Electricity Transmission	Neos Networks	Northumbrian Water Group
NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd	NYnet Ltd
Ogi	Oikos Storage Limited	Ørsted
Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Portsmouth Water	Premier Transmission Ltd (SNIP)
Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)
SABIC UK Petrochemicals	SAS Utility Services Ltd	Scottish and Southern Electricity Networks
Scottish Power Generation	Seabank Power Ltd	SES Water
SGN	Shell	Shell NOP
SP Energy Networks	Spring Fibre Limited	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited

Enquiry Confirmation
LSBUD Ref: 31123736

Date of enquiry: 09/10/2023
Time of enquiry: 17:08

Storengy	Tata Communications (c/o JSM Construction Ltd)	TfL – London Underground HV Cables (Road Side Cables)
Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital
UK Power Networks	Uniper UK Ltd	University of Cambridge Granta Backbone Network
Vattenfall	Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd
Voneus Limited	VPI Power Limited	Wales and West Utilities
West of Duddon Sands Transmission Ltd	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

Non-LSBUD members (Asset owners not registered on LSBUD)
(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.
Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status

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Appendix F
SITE INVESTIGATION FIELD LOGS

BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R01**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**02.11.23** End: **03.11.23**	**126.11**	**E:422052.0 N:424971.5**	**1** of **3**

Mechanical Log					Samples & Testing			Backfill & Instru-mentation	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Soft dark brown sandy slightly gravelly CLAY with frequent rootlets and roots. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of natural lithologies and coal. (TOPSOIL).	0.25 0.50	
										MADE GROUND. Soft to firm yellowish brown mottled dark grey sandy gravelly CLAY with occasional roots. Gravel is subangular to subrounded fine to coarse of brick, coal and natural lithologies. Sand is fine to coarse. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.60) 1.10	
1.20-1.65 1.20-1.65					1 1	SPT D	N=13				(1.10)	
2.00-2.45 2.00-2.45					2 2	SPT D	N=45			Soft to firm yellowish brown slightly gravelly CLAY with occasional lenses of fine to coarse sand. Gravel is subangular to subrounded fine to medium of natural lithologies. (WEATHERED PENNINE LOWER COAL MEASURES).	2.20 (0.80)	
2.50-2.74 2.50-2.75					3 3	SPT D	20,13/18,15,4 for 5mm			Soft orange and grey slightly gravelly CLAY. Gravel is angular to subrounded fine of mudstone and fragments of coal. (WEATHERED PENNINE LOWER COAL MEASURES).	3.00	
										COAL (PENNINE LOWER COAL MEASURES).	(1.12)	
4.00-5.00	88	26	0	NI NI 0.03 0.04 FI=28 NI 0.04 0.06 0.09 FI=16						Weak Grey SILTSTONE recovered as gravel size fragments with bands of soft to firm light grey and light yellow CLAY (PENNINE LOWER COAL MEASURES). . . . 4m to 4.12m, assumed zone of core loss.	4.12 4.16 4.36	
										Grey SILTSTONE. Recovered as non-intact very weak gravel size fragments due to possible drilling disturbance. (PENNINE LOWER COAL MEASURES).	4.40 4.51 4.58 5.00	
										Soft to firm light grey and light yellow CLAY with occasional inclusions of coarse angular gravel size coal fragments. (PENNINE LOWER COAL MEASURES).		
										Grey SILTSTONE locally iron impregnated. Recovered as non-intact extremely weak and very weak gravel size fragments, due to possible drilling disturbance. (PENNINE LOWER COAL MEASURES).		
										Firm light grey and light yellow CLAY. (PENNINE LOWER COAL MEASURES).		
										Extremely weak grey SILTSTONE. Discontinuities: Horizontal very closely spaced, planar, rough. (PENNINE LOWER COAL MEASURES).		
										Weak grey SILTSTONE. Predominantly recovered non-intact due to possible drilling disturbance. Discontinuities where discernible: Horizontal very closely and closely spaced, planar, rough. Weathering: Occasional orange brown surface discolouration on non-intact fragments. (PENNINE LOWER COAL MEASURES).		
										Description on next sheet		

Drilling Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Temporary casing installed to 10.50m depth during drilling.
4. Inspection pit remained dry and stable during excavation.
5. Borehole continued using rotary drilling techniques from 1.20m depth.
6. Borehole drilled using rotary coring techniques with T6-116 barrel, PCD core bit

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Rotary Cored	**Fraste Multidrill PL-G**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R01**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**02.11.23** End: **03.11.23**	**126.11**	**E:422052.0 N:424971.5**	**2** of **3**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Light and dark grey weak MUDSTONE (PENNINE LOWER COAL MEASURES). *(stratum copied from 5.00m from previous sheet)*		
										. . . 14.50m, loss of flush - no returns.	(20.50)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

and water flush between 2.50m and 5m depth.
7. Borehole drilled using rotary percussive ('open hole') methods between 5m and 25.50m depth at 92.50mm diameter.
8. 50mm diameter gas/groundwater monitoring well complete with Flush protective cover installed to 14m depth on completion. Response zone 5m to 9m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Fraste Multidrill PL-G**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R01**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**02.11.23** End: **03.11.23**	**126.11**	**E:422052.0 N:424971.5**	**3** of **3**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Light and dark grey weak MUDSTONE (PENNINE LOWER COAL MEASURES). *(stratum copied from 5.00m from previous sheet)*	25.50	
										Terminated on obstruction (suspected metal).		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	C B
Inspection pit + Rotary Cored	**Fraste Multidrill PL-G**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R02**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**30.10.23** End: **31.10.23**	**126.43**	**E:422101.2 N:424910.8**	**1** of **3**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										MADE GROUND. Dark grey asphalt.	0.10	
										MADE GROUND. Yellowish brown slightly clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of concrete.	0.30 0.70	
1.20-1.65					1	SPT	N=4			MADE GROUND. Soft to firm dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of brick concrete and natural lithologies. (WEATHERED PENNINE LOWER COAL MEASURES).	(1.00)	
1.20-1.65					1	D					1.70	
2.00-2.45					2	SPT	N=29			Firm to stiff brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of natural lithologies.	(0.50) 2.20	
2.00-2.45					2	D						
										Weathered MUDSTONE. Recovered as firm to stiff grey gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.90) 3.10	
										Dark grey slightly clayey angular to subrounded GRAVEL. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.50) 3.60	
3.60-4.00	100	20	0	NI Fl=13						Black carbonaceous MUDSTONE with occasional thin laminations of light grey fine sandstone. (PENNINE LOWER COAL MEASURES).	(0.70) 4.30	
4.10-5.60	80	19	13	NI NI NI 0.04 0.05 0.19 Fl=11 0.03 0.05 Fl=25						Black carbonaceous MUDSTONE with occasional thin laminations of light grey fin grained sandstone. Predominantly recovered non-intact as weak gravel size fragments, due to possible drilling disturbance. Weathering: Occasional dark red brown surface discolouration on nonintact fragments. (PENNINE LOWER COAL MEASURES). . . . 3.70m to 3.73m, strong Ironstone. . . . 4.10m to 4.30m, no core recovery, assumed zone of core loss.	4.65 5.05 5.20	
										Black carbonaceous MUDSTONE with occasional thin laminations of black vitreous coal. Recovered non-intact as weak gravel size fragments, due to possible drilling disturbance. (PENNINE LOWER COAL MEASURES). . . . 4.30m to 4.60m, occasional thin laminations of black vitreous coal.		
										Weak black vitreous COAL with very closely spaced vertical discontinuities, predominantly recovered nonintact. (PENNINE LOWER COAL MEASURES).		
										Firm grey CLAY (Possible seat earth). (PENNINE LOWER COAL MEASURES). 5.55m to 5.60m, weak.		
										Description on next sheet		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Borehole drilled using rotary coring techniques with PWF barrel, PCD core bit and water flush between 2.60m and 5.60m depth.
4. Borehole drilled using rotary percussive ('open hole') methods between 5.60m and 16.40m depth at 92.50mm diameter.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R02**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**30.10.23** End: **31.10.23**	**126.43**	**E:422101.2 N:424910.8**	**2** of **3**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Extremely weak, locally weak, grey MUDSTONE. Discontinuities: Horizontal very closely and closely spaced, planar, smooth. (PENNINE LOWER COAL MEASURES). *(stratum copied from 5.20m from previous sheet)*	(11.28)	
										. . . 13m, drilling gets harder. Still 100% flush returns.		
16.40-17.20	90	60	0	FI=25						. . . 16.30m to 17.10m, light grey mudstone is highly fractured.	16.48	
				NI						. . . 16.40m to 16.48m, assumed zone of core loss.	16.61	
17.20-17.70	100	82	0	FI=14						Soft/very soft grey slightly gravelly CLAY. Gravel is angular and subangular mudstone. Possible mudstone 'softened' by drilling flush. (PENNINE LOWER COAL MEASURES).		
										. . . 16.50m, 100% loss of flush.	(2.36)	
										. . . 17.60m, reduced flush returns. *Description on next sheet*		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

5. Borehole drilled using rotary coring techniques with PWF barrel, PCD core bit and Water flush between 16.40m and 19.20m depth.
6. Inspection pit remained dry and stable during excavation.
7. Borehole drilled using rotary percussive ('open hole') methods between 19.20m and 20m depth at 92.50mm diameter.
8. On completion, borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R02**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**30.10.23** End: **31.10.23**	**126.43**	**E:422101.2 N:424910.8**	**3** of **3**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
18.20-19.20	23	23	0							Weak to moderately weak black carbonaceous MUDSTONE. Discontinuities: Horizontal, very closely to closely spaced (some possibly drilling induced), planar smooth. Weathering: None discernible. (PENNINE LOWER COAL MEASURES).	18.97	
										(stratum copied from 16.61m from previous sheet) . . . 18.20m to 18.97m, 100% loss of flush.	(1.03)	
										Weak to moderately weak black and dark grey carbonaceous MUDSTONE. Discontinuities: Horizontal, very closely to closely spaced (some possibly drilling induced), planar smooth. Weathering: None discernible. (PENNINE LOWER COAL MEASURES).	20.00	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R03**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**26.10.23** End: **30.10.23**	**125.78**	**E:422126.0 N:424928.2**	**1** of **4**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Soft dark brown sandy slightly gravelly CLAY with frequent rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine of natural lithologies. (TOPSOIL).	0.20 (0.50) 0.70	
1.20-1.65 1.20-1.65					1 1	SPT D	N=4			MADE GROUND. Soft to firm dark brown mottled yellow slightly sandy slightly gravelly CLAY with occasional rootlets.Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of natural lithologies, coal and rare fragments of brick. (WEATHERED PENNINE LOWER COAL MEASURES).	(2.20)	
2.20-2.70					1	$UT_{(UT100)}$	90% recovery			Weathered MUDSTONE recovered as soft to firm dark grey mottled light grey gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium of mudstone. (WEATHERED PENNINE LOWER COAL MEASURES).	2.90	
2.70-3.15 2.70-3.15					2 2	SPT D	N=33					
3.20-3.27 3.20-3.65					3 3	SPT D	NP			Weathered mudstone. Recovered as slightly clayey angular to subrounded fine to medium GRAVEL. (WEATHERED PENNINE LOWER COAL MEASURES).	3.20	
										COAL (PENNINE LOWER COAL MEASURES). . . . 3.20m to 4m, SPT refusal. No recovery. . . . 4m to 4.29m, assumed zone of core loss.	(1.09) 4.29	
4.00-5.00	70			NI						Black vitreous COAL. Recovered non-intact as weak gravel size fragments. (PENNINE LOWER COAL MEASURES).	4.39 4.50 4.60	
5.00-5.30	100	77	50	FI=7 NI						Soft light grey and light yellow brown CLAY. (PENNINE LOWER COAL MEASURES). . . . 4.40m to 4.60m, coal recovered as soft grey slightly gravelly clay.	5.00	
5.30-5.80	72	58	0	FI=25 NI FI=27						Soft grey slightly gravelly CLAY. Gravel is angular fine and medium coal. (PENNINE LOWER COAL MEASURES).	5.44	
5.80-6.80	100	57	39	NI FI=33 FI=8 NI FI=7 NI FI=20 NI FI=20 NI						Grey SILTSTONE. Recovered as soft and firm CLAY with occasional extremely weak gravel size siltstone fragments (probably drilling disturbed material softened by drilling flush). (PENNINE LOWER COAL MEASURES).	(1.36) 6.80	
										Extremely weak grey SILTSTONE. (PENNINE LOWER COAL MEASURES). . . . 5m to 5.15m, localised areas of core 'softened' to clay, due to possible drilling disturbance. . . . 5.33m to 5.44m, assumed zone of core loss.		
										Weak to moderately weak grey fine sandy SILTSTONE. Discontinuities: Horizontal, occasionally subhorizontal, very closely to closely spaced (some possibly drilling induced), planar and undulating, smooth. Weathering: Occasional orange brown discolouration on discontinuity surfaces. (PENNINE LOWER COAL		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Inspection pit remained dry and stable during excavation.
4. Borehole continued using rotary drilling techniques from 1.20m depth.
5. Borehole drilled using rotary coring techniques with PWF barrel, PCD core bit and water flush between 4.40m and 8.30m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R03**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**26.10.23** End: **30.10.23**	**125.78**	**E:422126.0 N:424928.2**	**2** of **4**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										MEASURES). . . . 6.41m to 6.80m, with occasional thick laminations of dark grey mudstone and vertical to subvertical discontinuity with orange brown surface discolouration. . . . 8.30m, light grey returns from commencement of open hole drilling. Light to dark grey MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 6.80m from previous sheet)*	(9.10) 15.90	
										COAL. (PENNINE LOWER COAL MEASURES). . . . 16m, flush returns 100%. Returns are darker grey.	(1.70) 17.60	
										Description on next sheet		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

6. Borehole drilled using rotary percussive ('open hole') methods between 4m and 6.80m depth at 92.50mm diameter.
7. 50mm diameter gas/groundwater monitoring well complete with Flush protective cover installed to 8m depth on completion. Response zone 6m to 8m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	C B
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R03**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**26.10.23** End: **30.10.23**	**125.78**	**E:422126.0 N:424928.2**	**3** of **4**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Dark Grey MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 17.60m from previous sheet)*		
										. . . 19.90m, returns are dark grey almost black.	(12.40)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	C B
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R03**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**26.10.23** End: **30.10.23**	**125.78**	**E:422126.0 N:424928.2**	**4** of **4**

Mechanical Log					Samples & Testing			Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Dark Grey MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 17.60m from previous sheet)*	30.00	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	C B

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RSK GEOSCIENCES

BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R04**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**23.10.23** End: **25.10.23**	**126.63**	**E:422104.4 N:424895.5**	**1** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										MADE GROUND. Asphalt.	0.15	
										MADE GROUND. Grey slightly sandy GRAVEL. Gravel is angular to subrounded fine to coarse of concrete. Sand is fine to coarse.	0.30	
0.50-0.60					1	ES	1xT+1xJ+1xV				0.40	
										MADE GROUND. Dark slightly sandy clayey angular to subrounded fine to coarse GRAVEL of brick concrete and clinker. Geomesh.	(1.10)	
1.10-1.20					2	ES	1xT+1xJ+1xV					
1.20-1.65					1	SPT	N=5			Soft to firm dark grey mottled yellowish brown gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of natural lithologies. (WEATHERED PENNINE LOWER COAL MEASURES).	1.50	
1.20-1.60					1	D						
2.00						V	c_u=>195/>190/180			. . . 0.80m, becoming slightly gravelly.	(0.80)	
2.10-2.20					3	ES	1xT+1xJ+1xV					
2.20-2.65					2	SPT	N=6			Soft to firm orangish brown mottled dark brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of natural lithologies. (WEATHERED PENNINE LOWER COAL MEASURES).	2.30	
2.20-2.60					2	D						
										. . . 2m to 2.20m, rare fragments of fine coal noted.	(0.80)	
3.20-3.65					3	SPT	N=4				3.10	
										Very soft dark grey mottled brown gravelly CLAY. Gravel is angular to subrounded fine to medium of weathered natural lithologies. Very soft drilling, rapid increase in drilling rate noted. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.90)	
4.20-4.65					4	SPT	N=13				4.00	
										Angular to subrounded fine to medium GRAVEL of mudstone. Very soft drilling, rapid increase in drilling rate noted. (WEATHERED PENNINE LOWER COAL MEASURES).	(1.20)	
										COAL (PENNINE LOWER COAL MEASURES).	5.20	
5.20-5.65					5	SPT	N=9			Very weak light grey SILTSTONE (PENNINE LOWER COAL MEASURES).	(0.50)	
5.50-7.00										. . . 5.50m to 5.70m, assumed zone of core loss.	5.70	
5.50-5.65					6	SPT	NP				5.92	
	87	60	7							Soft grey CLAY with fragments of black vitreous coal (adhering to outer surface of clay). (PENNINE LOWER COAL MEASURES).	(0.58)	
										Very weak and extremely weak light grey SILTSTONE. Discontinuities: Horizontal to subhorizontal, closely and very closely spaced, planar smooth. Weathering: Occasional orange surface discolouration on discontinuities. (PENNINE LOWER COAL MEASURES).	6.50	
7.00-8.00											(0.50)	
										. . . 6.45m to 6.50m, extremely weak.	7.00	
	100	56	16								7.19	
										Weak to moderately weak thickly and thinly laminated SILTSTONE. Discontinuities: Horizontal, very closely and closely spaced, planar and undulating, smooth. Weathering: Occasional orange brown surface discolouration on discontinuity surfaces. (PENNINE LOWER COAL MEASURES).	7.59	
										Very soft grey CLAY (Possible drilling disturbed material, siltstone/mudstone 'softened by drilling' flush). (PENNINE LOWER COAL MEASURES).		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Inspection pit remained dry and stable during excavation.
4. Borehole drilled using rotary percussive ('open hole') methods between 1.20m and 5m depth at 92.50mm diameter.
5. Borehole drilled using rotary coring techniques with PWF barrel, PCD core bit

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Concrete coring (300mm) + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R04**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**23.10.23** End: **25.10.23**	**126.63**	**E:422104.4 N:424895.5**	**2** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Moderately weak grey SILTSTONE. Discontinuities: 1) Horizontal to subhorizontal, closely spaced, planar smooth. 2) Vertical discontinuity with orange brown surface discolouration. (PENNINE LOWER COAL MEASURES).		
										. . . 7.91m to 8m, non-intact – drilling induced.		
										Weak grey MUDSTONE. Discontinuities: Horizontal, closely spaced, undulating smooth (possible drilling induced). Weathering: None discernible (fresh). (PENNINE LOWER COAL MEASURES).		
										(stratum copied from 7.59m from previous sheet)		
											(13.31)	
										. . . 15.50m, 100% loss of flush. Casing installed to 20m.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

and water flush between 5m and 8m depth.
6. Borehole drilled using rotary percussive ('open hole') methods between 8m and 35m depth at 92.50mm diameter.
7. Temporary casing installed to 20m depth during drilling.
8. On completion, borehole backfilled with bentonite pellets.
9. For SPT test, NP = No penetration.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Concrete coring (300mm) + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R04**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**23.10.23** End: **25.10.23**	**126.63**	**E:422104.4 N:424895.5**	**3** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Weak grey MUDSTONE. Discontinuities: Horizontal, closely spaced, undulating smooth (possible drilling induced). Weathering: None discernible (fresh). (PENNINE LOWER COAL MEASURES). *(stratum copied from 7.59m from previous sheet)*	20.90	
										COAL. Recovered as angular fines in black returns. (PENNINE LOWER COAL MEASURES).	(1.00) 21.90	
										Dark grey MUDSTONE. (PENNINE LOWER COAL MEASURES). . . . 21.90m, 100% loss of flush, no recovery.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	
Concrete coring (300mm) + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	C B

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R04**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**23.10.23** End: **25.10.23**	**126.63**	**E:422104.4 N:424895.5**	**4** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Dark grey MUDSTONE. (PENNINE LOWER COAL MEASURES). . . . 21.90m, 100% loss of flush, no recovery.*(stratum copied from 21.90m from* previous sheet)	(12.10) 34.00	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Concrete coring (300mm) + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R05**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**01.11.23** End: **02.11.23**	**125.18**	**E:422131.3 N:424951.3**	**1** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Soft dark brown sandy slightly gravelly CLAY with frequent rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine of occasional brick and natural lithologies. (TOPSOIL).	0.20 0.40 (0.60)	
										MADE GROUND. Soft grayish dark brown sandy gravelly CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of brick concrete mudstone and occasional coal fragments.	1.00	
1.20-1.65 1.20-1.65					1 1	SPT D	N=5			Soft to firm yellowish brown mottled grey and orange slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone and coal.	(1.60)	
2.10-2.30 2.20-2.65 2.20-2.65					1 2 2	ES SPT D	1xT+1xJ+1xV N=8			Soft dark brown mottled red slightly gravelly slightly sandy CLAY with rare fragments of coal. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of mudstone. (WEATHERED PENNINE LOWER COAL MEASURES).	2.60	
2.70-4.00 2.70-3.08					3	SPT	10,10/10,10,10 for 75mm			. . . 1.40m to 1.60m, band of soft to firm yellowish brown mottled grey slightly gravelly clay. Gravel is subangular to subrounded fine of mudstone.	(1.10)	
3.20-3.65	8	0	0		3	D				COAL. (PENNINE LOWER COAL MEASURES).	3.70	
3.70-4.00	100	0	0							. . . 2.70m to 3.90m, assumed zone of core loss. . . . 3m to 3.70m, coal recovered as soft dark grey clay.	(0.80)	
4.00-5.50	100	69	38	FI=11 NI FI=13 NI FI=5 NI FI=13 FI=9 FI=43						Soft and firm grey CLAY, locally tending to extremely weak mudstone. (PENNINE LOWER COAL MEASURES). . . . 3.70m to 3.80m, firm. . . . 3.80m to 3.90m, tensing to extremely weak mudstone. . . . 3.90m to 4m, soft brown CLAY with occasional fragments of coal.	4.50 4.55 (0.90)	
										Very soft grey CLAY (Possible drilling disturbed material). (PENNINE LOWER COAL MEASURES).	5.45 5.80	
										Extremely weak and weak light grey thickly laminated and thinly bedded MUDSTONE with occasional thin beds of siltstone. Discontinuities: Horizontal, closely spaced, planar and undulating, smooth. Weathering: Orange brown penetrative orange brown discolouration, no discernible change of strength. (PENNINE LOWER COAL MEASURES). . . . 4.94m to 5m, non-intact. Non-intact fragments with penetrative orange brown discolouration.		
										Moderately weak light grey, thinly and thickly laminated fine grained SANDSTONE. Discontinuities: Horizontal. Very closely and closely spaced, planar, rough. (PENNINE LOWER COAL MEASURES).		
										Weak light grey MUDSTONE. (PENNINE LOWER COAL MEASURES).		

Drilling Progress and Water Observations

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Inspection pit remained dry and stable during excavation.
4. Borehole continued using rotary drilling techniques from 1.20m depth.
5. Borehole drilled using rotary coring techniques with PWF barrel, PCD core bit and Water flush between 2.70m and 5.74m depth.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R05**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**01.11.23** End: **02.11.23**	**125.18**	**E:422131.3 N:424951.3**	**2** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										Weak light grey MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 5.80m from previous sheet)*	(11.20)	
										. . . 16m, reduced flush returns.	17.00	
										COAL. (PENNINE LOWER COAL MEASURES).	(0.70)	
											17.70	
										Description on next sheet		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

6. Borehole drilled using rotary percussive ('open hole') methods between 5.74m and 34m depth at 92.50mm diameter.
7. On completion, borehole backfilled with bentonite cement.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By:
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R05**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**01.11.23** End: **02.11.23**	**125.18**	**E:422131.3 N:424951.3**	**3** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 17.70m from previous sheet)*	(14.50)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Ch By:
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Co-op Academy Smithies Moor	**Turner and Townsend**	**R05**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**01.11.23** End: **02.11.23**	**125.18**	**E:422131.3 N:424951.3**	**4** of **4**

Mechanical Log					Samples & Testing			Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	No	Type	Results					
										MUDSTONE. (PENNINE LOWER COAL MEASURES). *(stratum copied from 17.70m from previous sheet)*	32.20	
										COAL. (potential) (PENNINE LOWER COAL MEASURES).	(0.50) 32.70	
										MUDSTONE. (PENNINE LOWER COAL MEASURES).	(1.30) 34.00	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	C B
Inspection pit + Rotary Cored	**Comacchio GEO 205**	**Central Alliance**	**MFenton**	

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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS01**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**27.10.23** End: **27.10.23**	**126.50**	**E:422039.3 N:424966.3**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
	0.20-0.30	1	ES	1xT+1xJ+1xV			Dark brown slightly gravelly slightly sandy CLAY with some roots and rootlets. Gravel is subangular fine to medium stone and rare brick. (TOPSOIL)	(0.30) 0.30	
							MADE GROUND. Dark brown light grey mottled slightly gravelly slightly sandy CLAY with occasional roots and rootlets. Gravel is subangular fine to medium stone and rare brick.	0.50	
							Firm dark brown, brown and black mottled slightly gravelly CLAY. Gravel is subangular to angular fine to coarse mudstone and coal.	(1.00)	
1.20 - 2.00 (85mm dia) 100% rec	1.20-1.65 1.20-1.65	1 1 11	SPT D	N=6				1.50	
							Black weathered COAL (PENNINE LOWER COAL MEASURES).		
2.00 - 2.80 (75mm dia) 70% rec	2.00-2.45 2.00-2.45	2 2 11	SPT D	N=18				(1.20) 2.70	
	2.80-3.11 2.80-3.11	3 3 11	SPT D	8,10/12,15,13 for 5mm			Light brown and orangish brown weathered fine SANDSTONE (PENNINE LOWER COAL MEASURES).	(0.41) 3.11	
							Terminated at 3.11m due to refusal on rock		

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. 50mm diameter gas/groundwater monitoring well complete with flush protective cover installed to 1m depth on completion. Response zone 0.3m to 1m depth.
4. Terminated due to refusal at 3.11m on sandstone.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 323197-CO-OP-ACADEMY-SMITHIES-MOOR.GPJ - v10_01.
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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS02**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**27.10.23** End: **27.10.23**	**126.70**	**E:422086.7 N:424896.5**	**1** of **2**

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							MADE GROUND. Black ASPHALT.	0.07	
							MADE GROUND. Light grey slightly clayey slightly sandy angular fine to coarse GRAVEL of stone, brick and concrete with occasional concrete and brick cobbles.	0.20	
	0.30-0.40	1	ES	1xT+1xJ+1xV				0.40	
							MADE GROUND. Dark grey clayey sandy subangular to angular GRAVEL of stone, brick and concrete with frequent cobbles of brick and concrete.		
	0.60		V	c_u=>110/>110/>110			Firm brownish grey, grey, orangish brown mottled slightly gravelly CLAY with occasional fine organic matter. Gravel is subrounded to subangular fine to medium mudstone and occasional coal.		
	0.90-1.10	2	ES	1xT+1xJ+1xV			. . . 0.40m, textile membrane.		
	1.20-1.65	1	SPT	N=7					
	1.20-1.65	1	D						
		11						(2.00)	
1.20 - 2.00 (85mm dia) 100% rec							. . . 1.40m, becoming orangish brown grey mottled.		
	1.70		V	c_u=65/75/89					
	2.00-2.45	2	SPT	N=4					
	2.00-2.45	2	D						
		11						2.40	
2.00 - 3.00 (75mm dia) 90% rec							Soft to firm slightly gravelly CLAY. Gravel is subangular fine to medium mudstone. (WEATHERED PENNINE LOWER COAL MEASURES).		
	2.70		V	c_u=38/56/58					
	3.00-3.45	3	SPT	N=11					
	3.00-3.45	3	D						
		11							
3.00 - 4.00 (65mm dia) 65% rec								(2.60)	
	3.70		V	c_u=38/37/48					
	4.00-4.45	4	SPT	N=8					
	4.00-4.45	4	D						
		11							
4.00 - 5.00 (55mm dia) 55% rec									

Drilling Progress and Water Observations					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. 50mm diameter gas/groundwater monitoring well complete with flush protective cover installed to 4m depth on completion. Response zone 1m to 4m depth.
4. Clegghammer at 0.60m 4, 6, 9, 10, 11.
5. Terminated at 5.30m due to refusal on weathered mudstone.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 323197-CO-OP-ACADEMY-SMITHIES-MOOR.GPJ - v10_01.
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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS02**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**27.10.23** End: **27.10.23**	**126.70**	**E:422086.7 N:424896.5**	**2** of **2**

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
4.00 - 5.00 (55mm dia) 55% rec							Soft to firm slightly gravelly CLAY. Gravel is subangular fine to medium mudstone. (WEATHERED PENNINE LOWER COAL MEASURES). *(stratum copied from 2.40m from previous sheet)*	5.00	
	5.00-5.23	5	SPT	7,5/6,50 for 5mm			Grey weathered MUDSTONE (PENNINE LOWER COAL MEASURES).	5.10	
	5.00-5.30	5 11	D				Black weathered COAL (PENNINE LOWER COAL MEASURES).	5.20	
							Grey weathered MUDSTONE (PENNINE LOWER COAL MEASURES).	5.30	
							Terminated at 5.30m due to refusal on weather mudstone.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS03**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**27.10.23** End: **27.10.23**	**126.36**	**E:422113.7 N:424908.9**	**1** of **1**

Progress	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							MADE GROUND. Black ASPHALT. (TOPSOIL).	0.07	
	0.20-0.30	1	ES	1xT+1xJ+1xV			MADE GROUND. Light grey clayey sandy angular fine to coarse GRAVEL of stone and occasional concrete. Low cobble content of stone.	0.20	
							MADE GROUND. Dark brown clayey sandy subangular to angular fine to coarse GRAVEL of stone, concrete and brick with occasional cobbles stone, brick and concrete.	0.40	
	0.60		V	c_u=95/92/102			Firm orangish brown grey mottled slightly gravelly CLAY. Gravel is subangular fine to medium mudstone and rare coal.	(0.80)	
							. . . 0.40m, textile membrane.		
	1.00-1.20	2	ES	1xT+1xJ+1xV				1.20	
1.20 - 2.00 (85mm dia) 100% rec	1.20-1.65 1.20-1.62	1 1 11	SPT D	N=17			Stiff grey CLAY. (WEATHERED PENNINE LOWER COAL MEASURES).	1.45	
							Grey weathered MUDSTONE (PENNINE LOWER COAL MEASURES).	(0.35)	
							. . . 1.45m to 1.55m, band of orangish brown weathered mudstone.	1.80	
							. . . 1.70m to 1.80m, band of orangish brown weathered mudstone.	1.90	
	2.00-2.23	2	SPT	9,18/20,12 for 5mm			Black weathered COAL (PENNINE LOWER COAL MEASURES).	(0.33)	
	2.00-2.23	2 11	D				Grey and dark grey mottled MUDSTONE (PENNINE LOWER COAL MEASURES).	2.23	
							Terminated at 1.8m due to refusal on weathered mudstone		

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Clegghammer CBR of 4% at 0.40m.
4. Terminated at 2.23m due to refusal on weathered mudstone.
5. On completion backfilled with bentonite and arisings.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS04**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**30.10.23** End: **30.10.23**	**125.87**	**E:422117.2 N:424925.9**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
	0.10-0.20	1	ES	1xT+1xJ+1xV			Grass onto soft dark brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is subangular stone of natural lithologies and rare concrete.	(0.30)	
								0.30	
	0.70-0.80	2	ES	1xT+1xJ+1xV			Soft to firm orangish brown, dark brown, grey and black mottled slightly gravelly slightly sandy CLAY. Gravel is subangular fine to coarse mudstone and occasional coal. (WEATHERED PENNINE LOWER COAL MEASURES).	(1.00)	
1.20 - 2.00 (85mm dia) 100% rec	1.20-1.65	1	SPT	N=11				1.30	
	1.20-1.65	1 11	D				Firm grey and brown mottled slightly gravelly CLAY. Gravel is angular fine to coarse mudstone. (WEATHERED PENNINE LOWER COAL MEASURES). . . . 1.40m to 1.50m, band of clayey angular fine to coarse ironstone gravel.	(0.40)	
								1.70	
	2.00-2.41	2	SPT	5,10/12,13,17,8 for 35mm			Black thinly laminated weathered MUDSTONE with orange staining (PENNINE LOWER COAL MEASURES).	(0.71)	
	2.00-2.41	2 11	D					2.41	
							Terminated at 2.41m due to refusal on weathered mudstone.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. 50mm diameter gas/groundwater monitoring well complete with flush protective cover installed to 1.50m depth on completion. Response zone 0.50m to 1.50m depth.
4. Clegghammer at 0.60m 6%cbr.
5. Terminated at 2.41m due to to refusal on mudstone.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

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RAW FIELD DATA

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS05**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**30.10.23** End: **30.10.23**	**125.59**	**E:422118.3 N:424936.2**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							Soft dark brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is subangular fine to coarse stone and rare brick and ceramic. (TOPSOIL).	0.25	
							Soft to firm orangish brown, grey, dark brown mottled slightly gravelly slightly sandy CLAY. Gravel is subangular fine to coarse mudstone and occasional coal. (WEATHERED PENNINE LOWER COAL MEASURES).	(1.05)	
	1.00-1.20	1	ES	1xT+1xJ+1xV					
1.20 - 2.00 (85mm dia) 100% rec	1.20-1.65 1.20-1.65	1 1 11	SPT D	N=10				1.30	
							Black thinly laminated weathered MUDSTONE, weathered to gravelly CLAY in places. Occasional orange staining (PENNINE LOWER COAL MEASURES).	(1.20)	
2.00 - 3.00 (75mm dia) 75% rec	2.00-2.45 2.00-2.45	2 2 11	SPT D	N=10				2.50	
							Black weathered COAL (PENNINE LOWER COAL MEASURES).	(1.20)	
3.00 - 3.80 (65mm dia) 60% rec	3.00-3.45 3.00-3.45	3 3 11	SPT D	N=31				3.70	
	3.80-4.10 3.80-4.10	4 4 11	SPT D	11,14/16,34 for 70mm			Light grey weathered MUDSTONE (PENNINE LOWER COAL MEASURES).	(0.40)	
							Terminated at 4.10m on weathered mudstone.	4.10	

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. 50mm diameter gas/groundwater monitoring well complete with flush protective cover installed to 2m depth on completion. Response zone 1m to 2m depth.
4. Clegghammer at 0.90m 6% cbr.
5. Terminated at 4.10m due to refusal on weathered mudstone.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Tracked window sampling	**Dando Terrier**	**Central Alliance**	**TBrereton**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 323197-CO-OP-ACADEMY-SMITHIES-MOOR.GPJ - v10_01.
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RSK GEOSCIENCES

RAW FIELD DATA

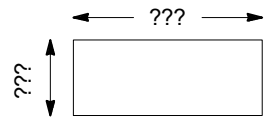
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Co-op Academy Smithies Moor	**Turner and Townsend**	**WS06**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
323197	**02.11.23**	**125.50**	**E:422134.9 N:424936.1**	**1** of **1**
	End: **02.11.23**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.25	1	ES	1xT+1xJ+1xV			Soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of natural lithologies and rare fragments of brick. (TOPSOIL).	0.25	
0.40-0.70	2	ES	1xT+1xJ+1xV			Soft to firm brown mottled grey sandy slightly gravelly CLAY with rare rootlets and rare cobbles of SANDSTONE. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of mudstone and sandstone. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.65)	
0.75		V	c_u=>95/>110/77				0.90	
1.10-1.20	3	ES	1xT+1xJ+1xV			Soft black sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium of mudstone and fragments of coal. (WEATHERED PENNINE LOWER COAL MEASURES).	(0.30) 1.20	

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. On completion, borehole backfilled with arisings.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand dug	**Hand tools**	**MFenton**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 323197-CO-OP-ACADEMY-SMITHIES-MOOR.GPJ - v10_01.
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Appendix G
GROUND GAS MONITORING DATA

GAS MONITORING FIELD SHEET

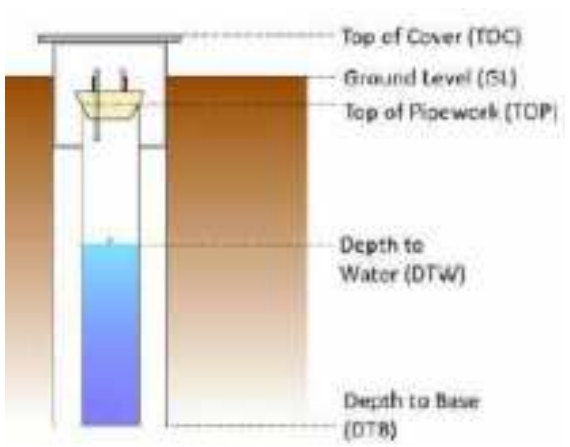
Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		0	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R01	Monitoring Round Number:		3	Test Number:		3
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Deep	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	11:32	11:32	1001		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:35	11:39				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-0.1	0	0.2	0.2	21.8	0	0		
5	-0.1	15	0.1	3.5	21.2	1	0		
10	-0.1	30	0.1	4.3	12.3	0	0		
15	-0.1	60	0.1	4.7	4	0	0		
20	-0.1	90	0.1	4.7	2.3	0	0		
25	-0.1	120	0.1	4.6	1.9	0	0		
30	0.1	180	0.1	4.1	1.7	0	0		
40	0.1	240	0.1	4	1.8	0	0		
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	9.22	Time:	11:32:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.5	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

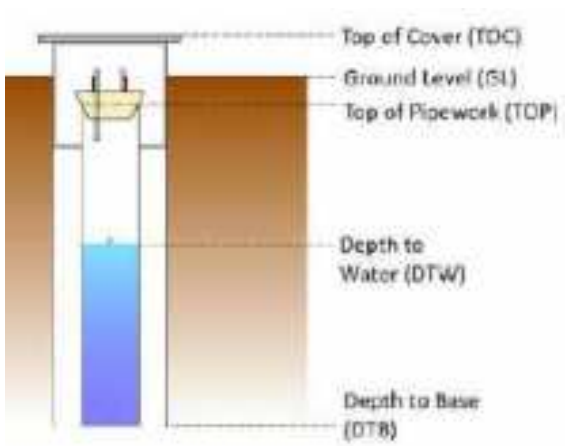
GAS MONITORING FIELD SHEET

Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0			
Pre-Testing Remarks:		Air Temperature: °C	8	Device:	Ga5000				
		Weather:	Showers	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	R01	Monitoring Round Number:	5	Test Number:	5				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double			
Time Start (hh:mm)	11:42	11:42	1025		Observations (e.g. on-site activities):				
Time End (hh:mm)	11:45	11:52							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.6	21.3	0	0		0
5	0.1	15	0.2	4.3	18.1	1	0		0
10	0.1	30	0.2	4.9	6.2	0	0		0
15	0.1	60	0.2	5.2	3	0	0		0
20	0.1	90	0.2	5.3	2.4	0	0		0
25	0.1	120	0.2	5.3	2.3	0	0		0
30	0.1	180	0.2	5.3	2.3	0	0		0
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	8.58	Time:	11:42:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	13.69	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

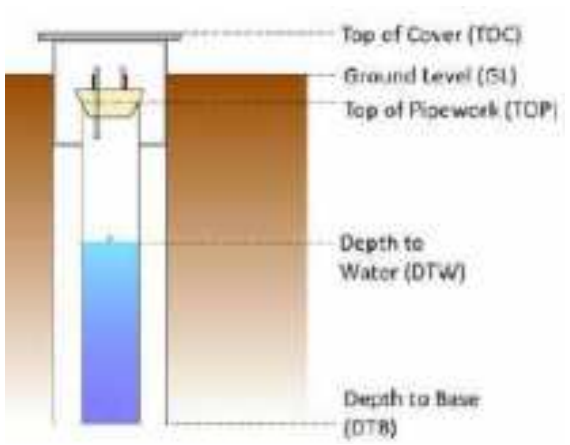
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R01	Monitoring Round Number:		4	Test Number:		4
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	10:53	10:53	999		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:56	10:58				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.3	21.4	0	0		
5	0.1	15	0.2	4.1	17	1	0		
10	0.1	30	0.2	4.6	6.6	1	0		
15	0.1	60	0.2	5	1.9	0	0		
20	0.1	90	0.2	5	1.5	0	0		
25	0.1	120	0.2	5	1.5	0	0		
30	0.1	180	0.2	5.1	1.6	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	12.88	Time:	11:00:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.42	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

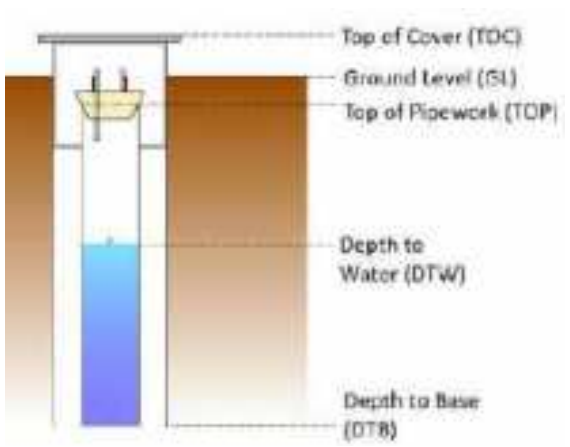
Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		10	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R01	Monitoring Round Number:		1	Test Number:		1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	10:56	10:59	1011	0.29	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:00	11:04				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.1	21.5	0	0		
5	0.1	15	0.2	0.7	19.9	9	0		
10	0.1	30	0.1	0.8	12.7	4	0		
15	0.1	60	0.1	0.9	9.4	2	0		
20	0.1	90	0.1	0.9	9	1	0		
25	0.1	120	0.1	0.9	9	1	0		
30	0.1	180	0.1	0.9	9	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	11:04:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	14.2	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

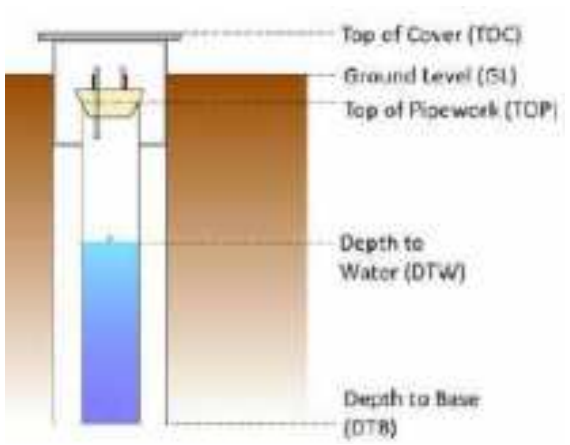
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Strong		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R01	Monitoring Round Number:		6	Test Number:		6
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Single
Time Start (hh:mm)	12:53	12:53	985		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:56	13:00				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.3	0.6	21.5	0	0		
5	0.1	15	0.3	3.1	19.1	0	0		
10	0.1	30	0.3	4	12	0	9		
15	0.1	60	0.3	5.3	3.9	0	0		
20	0.1	90	0.3	5.5	2.9	0	0		
25	0.1	120	0.3	5.5	2.7	0	0		
30	0.1	180	0.3	5.5	2.7	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	8.31	Time:	12:53:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.55	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

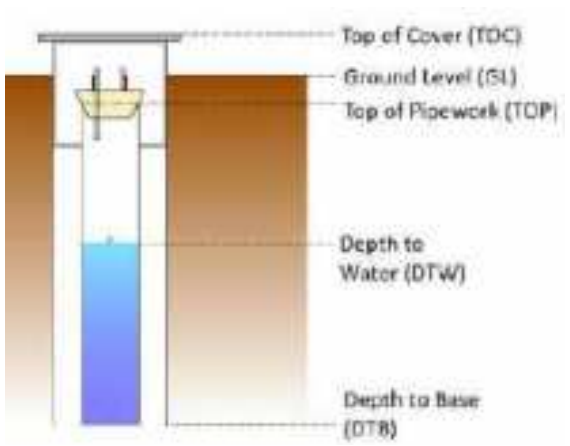
Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	0	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	R01	Monitoring Round Number:	1	Test Number:	1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	15:11	15:11	988		Observations (e.g. on-site activities):	
Time End (hh:mm)	15:14	15:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.2	0.2	22	0	0		
5	0	15	0.2	4	20	2	0		
10	0	30	0.2	4.8	8.2	0	0		
15	0	60	0.2	5	4.3	0	0		
20	0	90	0.2	5	3.6	0	0		
25	0	120	0.2	4.8	3.7	0	0		
30	0	180	0.2	4.2	4.4	0	0		
40		240	0.2	3.7	5.3	0	0		
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	8.67	Time:	15:11:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	13.56	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

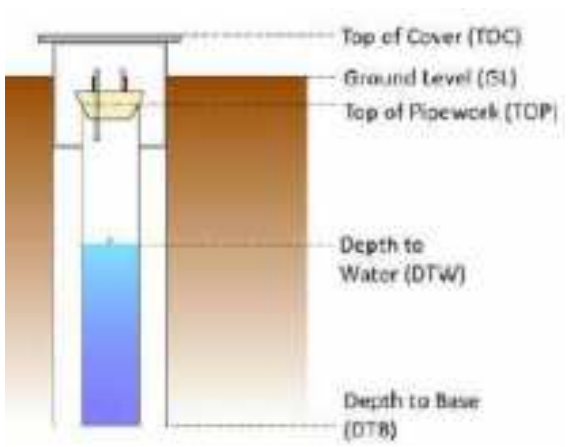
GAS MONITORING FIELD SHEET

Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C		0	Device:		Ga5000		
		Weather:		Dry	Serial Number:		G503316		
		Ground Conditions:		Damp	Daily Check:				
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light				
		Tidal State: (if applicable) High / Low / Rising / Falling			NA				
Exploratory Position ID:	R03	Monitoring Round Number:		3	Test Number:		3		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Deep	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50		
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE		Double		
Time Start (hh:mm)	10:33	10:39	1000		Observations (e.g. on-site activities):				
Time End (hh:mm)	10:39	10:43							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-5.1	0	0.2	0.8	19.3	0	0		
5	-5.1	15	0.2	0.7	19.5	0	0		
10	-5	30	0.2	0.8	19.1	0	0		
15	-5	60	0.2	0.7	18.3	0	0		
20	-5	90	0.2	0.7	18.2	0	0		
25	-4.9	120	0.1	0.7	18.2	0	0		
30	-3.9	180	0.1	0.7	18.3	0	0		
40	-3.8	240							
50	-3.5	300							
60	-2.5	360							
90	-1.6	420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	4.81	Time:	10:23:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	6.6	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

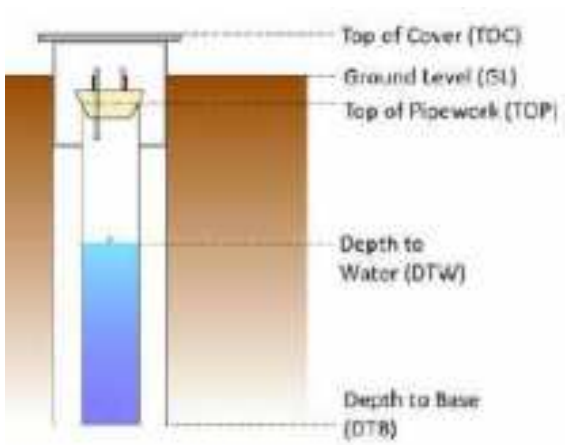
Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		8	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R03	Monitoring Round Number:		5	Test Number:		5
Install Type: SINGLE / DOUBLE	Double	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:43	10:43	1025		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:46	10:53				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-2.4	0	0.8	0.1	21.5	0	0		1
5	-2.5	15	0.9	1.3	20.4	1	0		0.5
10	-2.6	30	0.9	1.5	18.1	1	0		0.7
15	-2.6	60	0.9	1.2	18	0	0		0.4
20	-2.5	90	0.9	0.8	19.1	0	0		1.1
25	-2.5	120	0.9	0.7	19.7	0	0		0.8
30	-2.4	180	0.9	0.5	20.1	0	0		0.5
40	-2.3	240							
50	-2.1	300							
60	-1.7	360							
90	-1.1	420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	5.9	Time:	10:43:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	6.64	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:				
	Samples Taken: Yes / No	No		
	Sample Media: Gas/Water	N/A		
	Gas Cannister Start (mb)			
	Gas Cannister End (mb)			
	Gas Cannister Duration (mins)			
	Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

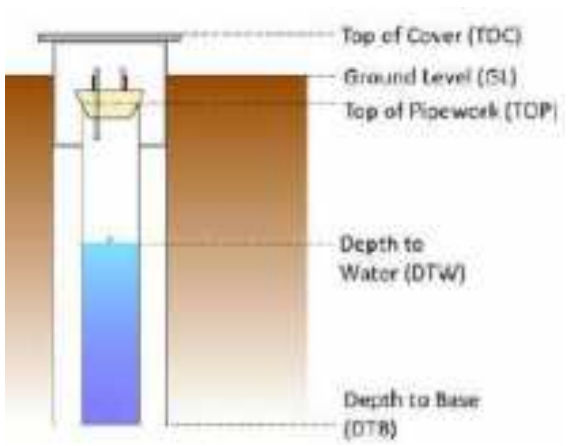
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R03	Monitoring Round Number:		4	Test Number:		4
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	09:54	09:54	999		Observations (e.g. on-site activities):	
Time End (hh:mm)	09:59	10:04				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.4	0.1	21.4	0	0		
5	-3.3	15	0.4	0.3	21	5	0		
10	-3.2	30	0.4	0.6	19.7	4	0		
15	-3.1	60	0.4	0.7	18.8	2	0		
20	-2.9	90	0.4	0.8	18.6	1	0		
25	-2.8	120	0.4	0.8	18.5	0	0		
30	-2.6	180	0.4	0.8	18.5	0	0		
40	-2.3	240							
50	-1.9	300							
60	-1.6	360							
90	-1.2	420							
120	-0.7	480							
150	-0.1	540							
180	-0.1	600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	4.92	Time:	09:54:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	6.57	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

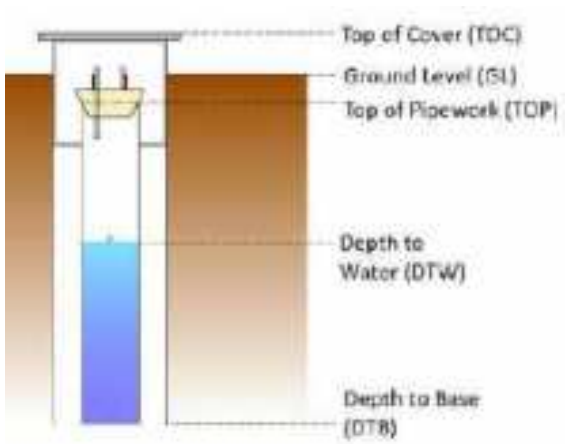
Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		10	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	R03	Monitoring Round Number:		1	Test Number:		1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:41	11:43	1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:43	11:46				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.1	0.8	20.9	0	0		
5	0.1	15	0.1	0.5	20.4	4	0		
10	0.1	30	0.1	0.5	19.6	3	0		
15	0.1	60	0.1	0.5	17.6	3	0		
20	0.1	90	0.1	0.6	17.6	2	0		
25	0.1	120	0.1	0.6	17.6	2	0		
30	0.1	180	0.1	0.6	17.5	1	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	5.32	Time:	11:46:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	8.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

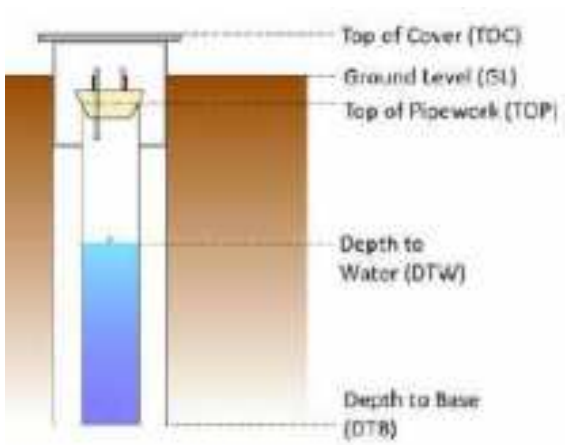
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0	
Pre-Testing Remarks:		Air Temperature: °C	6	Device:		Ga5000	
		Weather:	Dry	Serial Number:		G503316	
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Strong			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	R03	Monitoring Round Number:	6	Test Number:		6	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:08	12:08	985		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:11	12:14				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-3.2	0	0.7	0.1	21.5	0	0		
5	-3.2	15	0.7	1.3	20.8	1	0		
10	-3.2	30	0.7	1.6	17.9	1	0		
15	-3.1	60	0.8	1.7	16.4	1	0		
20	-3	90	0.8	1.7	16.5	0	0		
25	-2.9	120	0.8	1.6	16.8	0	0		
30	-2.8	180	0.8	1.6	16.8	0	0		
40	-2.5	240							
50	-2.3	300							
60	-2	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	6.02	Time:	12:08:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	6.66	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

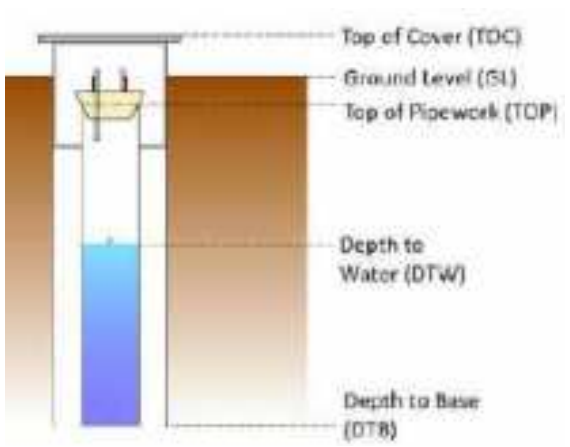
GAS MONITORING FIELD SHEET

Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C		-1	Device:		Ga5000		
		Weather:		Dry	Serial Number:		G503316		
		Ground Conditions:		Damp	Daily Check:				
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light				
		Tidal State: (if applicable) High / Low / Rising / Falling			NA				
Exploratory Position ID:	R03	Monitoring Round Number:		2	Test Number:		1		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50		
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE		Double		
Time Start (hh:mm)	16:27	16:27	988		Observations (e.g. on-site activities):				
Time End (hh:mm)	16:30	16:37							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-4.7	0	0.2	0.2	21.4	0	0		
5	-4.4	15	0.2	0.4	21	0	0		
10	-4.1	30	0.2	0.6	19.4	0	0		
15	-3.8	60	0.2	0.7	19.2	0	0		
20	-3.4	90	0.2	0.7	19.1	0	0		
25	-3.2	120	0.2	0.6	19.2	0	0		
30	-3	180	0.2	0.6	19.3	0	0		
40	-2.8	240							
50		300							
60		360							
90		420							
120		480							
150		540							
180	-0.4	600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	5.05	Time:	16:27:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	6.2	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

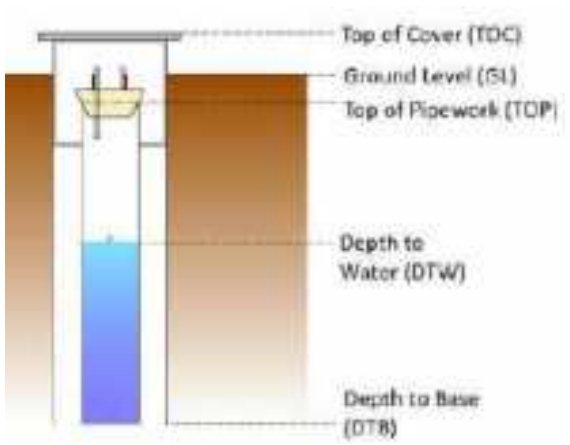
Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		0	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Dry	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws01	Monitoring Round Number:		3	Test Number:		3
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:22	11:22	1001		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:25	11:29				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.2	21.6	0	0		
5	0.1	15	0.2	1.6	21.5	0	0		
10	0.1	30	0.1	2	20.7	0	0		
15	0.1	60	0.1	2.2	20	0	0		
20	0.1	90	0.1	2.3	19.8	0	0		
25	0.1	120	0.1	2.3	19.8	0	0		
30	0.1	180	0.1	2.3	19.8	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	0.84	Time:	11:22:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.02	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

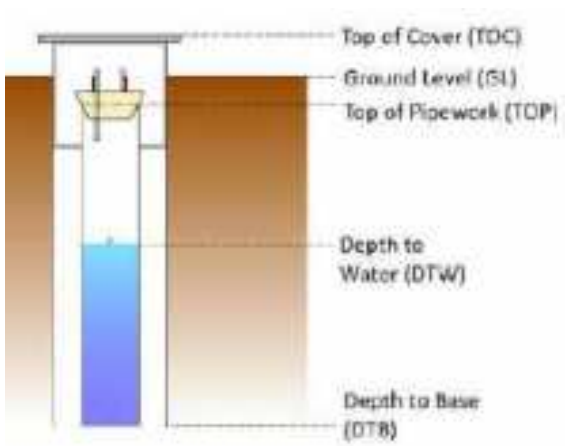
GAS MONITORING FIELD SHEET

Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C	6	Device:	Ga5000				
		Weather:	Showers	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	Ws01	Monitoring Round Number:	5	Test Number:	5				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double			
Time Start (hh:mm)	11:35	11:35	1025		Observations (e.g. on-site activities):				
Time End (hh:mm)	11:38	11:45							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.3	21.8	0	0		0
5	0.1	15	0.2	2.9	19.4	0	0		0
10	0.1	30	0.2	3.4	16.5	0	0		0
15	-0.1	60	0.2	3.5	14.5	0	0		0
20	-0.1	90	0.2	3.6	14.3	0	0		0
25	-0.1	120	0.2	3.6	14.3	0	0		0
30	-0.1	180	0.2	3.6	14.3	0	0		0
40	-0.1	240							
50	-0.1	300							
60	-0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	-0.1	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	1.05	Time:	11:35:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	1.08	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

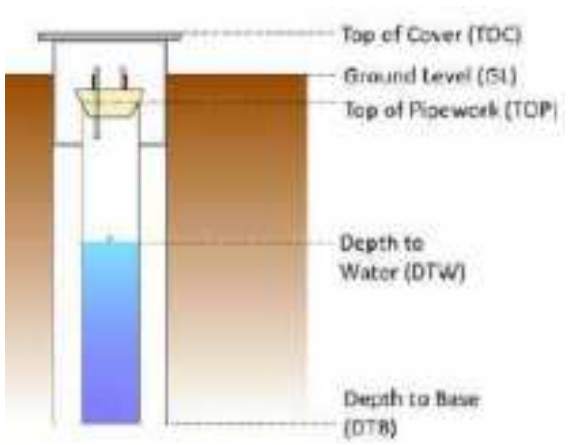
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws01	Monitoring Round Number:		4	Test Number:		4
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:44	10:44	998		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:47	10:50				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.1	0.1	20.5	0	0		
5	0.1	15	0.1	1.9	19.8	0	0		
10	0.1	30	0.1	2.4	18.4	0	0		
15	0.1	60	0.1	2.6	18	0	0		
20	0.1	90	0.1	2.6	17.9	0	0		
25	0.1	120	0.1	2.6	17.9	0	0		
30	0.1	180	0.1	2.6	17.9	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	0.91	Time:	10:44:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.02	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

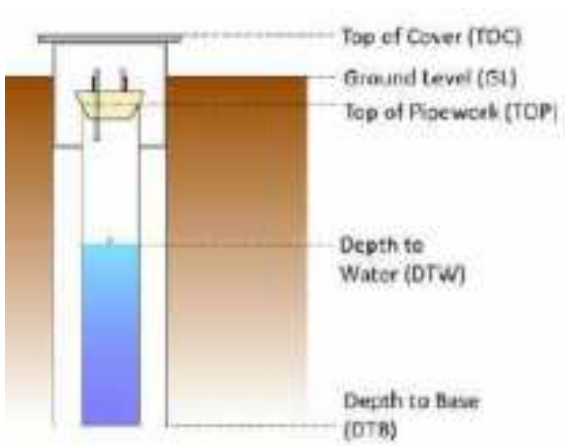
Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		10	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws01	Monitoring Round Number:		1	Test Number:	1	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:14	11:17	1011	0.3	Observations (e.g. on-site activities):	
Time End (hh:mm)	11:16	11:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.1	0.1	20.8	0	0		
5	0.1	15	0.1	1.6	20.5	0	0		
10	0.1	30	0.1	1.9	17.7	0	0		
15	0.1	60	0.1	2	16.9	0	0		
20	0.1	90	0.1	2	16.8	0	0		
25	0.1	120	0.1	2.1	16.8	0	0		
30	0.1	180	0.1	2.1	16.7	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	11:04:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

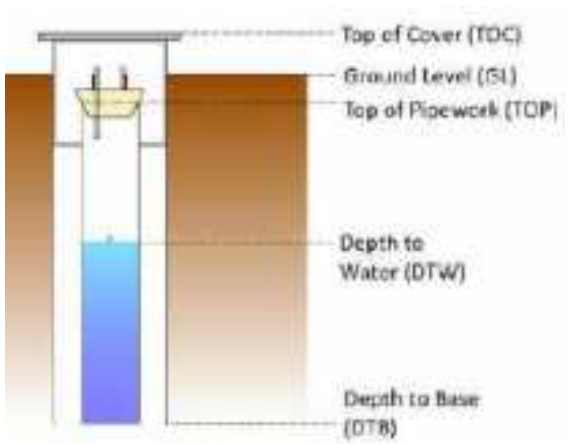
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	6	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Strong			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws01	Monitoring Round Number:	6	Test Number:	6		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:47	12:47	985		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:50	12:53				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.3	1	20.9	0	0		
5	0.1	15	0.3	3.3	20.2	1	0		
10	0.1	30	0.3	3.7	15.7	0	0		
15	0.1	60	0.3	4	14.2	0	0		
20	0.1	90	0.6	4	14.1	0	0		
25	0.1	120	0.3	4	14.1	0	0		
30	0.1	180	0.3	4	14.1	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	12:47:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.11	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

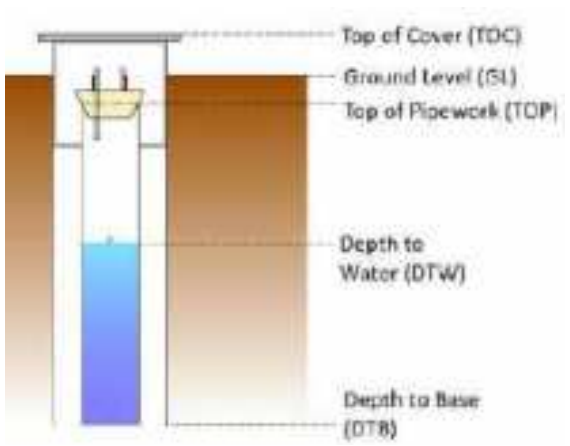
Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	0	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	WS01	Monitoring Round Number:	1	Test Number:	1		
Install Type: SINGLE / DOUBLE	Double	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	15:27	15:27	988	0.07	Observations (e.g. on-site activities):	
Time End (hh:mm)	15:30	15:37				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.2	0.4	20.5	0	0		
5	0	15	0.1	1.9	20.3	0	0		
10	0	30	0.2	2.2	18.8	0	0		
15	0	60	0.2	2.3	18.4	0	0		
20	0	90	0.2	2.3	18.3	0	0		
25	0	120	0.2	2.3	18.3	0	0		
30	0	180	0.2	2.3	18.3	0	0		
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	0.94	Time:	15:27:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.1	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

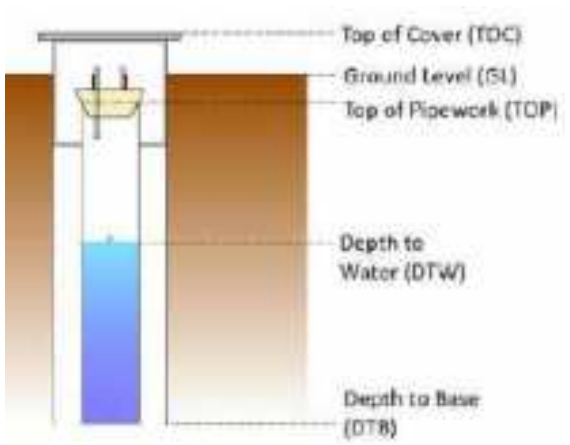
Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	0	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws02	Monitoring Round Number:	3	Test Number:	3		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:10	11:09	1001		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:12	11:17				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.1	21.3	0	0		
5	0.1	15	0.1	5	20.5	3	0		
10	0.1	30	0.2	1.2	16.6	0	0		
15	0.1	60	0.1	0.1	20.3	0	0		
20	0.1	90	0.1	0.1	21.2	0	0		
25	0.1	120	0.1	0.1	21.3	0	0		
30	0.1	180	0.1	0.1	21.3	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.11	Time:	11:09:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	3.87	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

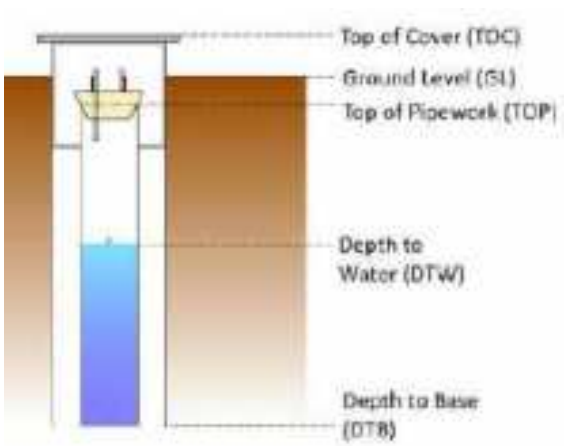
Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C	6	Device:	Ga5000				
		Weather:	Showers	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	Ws02	Monitoring Round Number:	5	Test Number:	5				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:24	11:24	1025		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:27	11:34				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.3	0.5	21	0	0		0
5	0.1	15	0.3	7.3	17.4	2	0		0
10	0.1	30	0.2	8.1	7.8	0	0		0
15	0.1	60	0.2	5.8	9.6	0	0		0
20	0.1	90	0.2	4.1	14	0	0		0
25	0.1	120	0.2	3	16.8	0	0		0
30	0.1	180	0.2	2	18.9	0	0		0
40	0.1	240	0.2	2	19	0	0		0
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.62	Time:	11:24:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	3.82	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

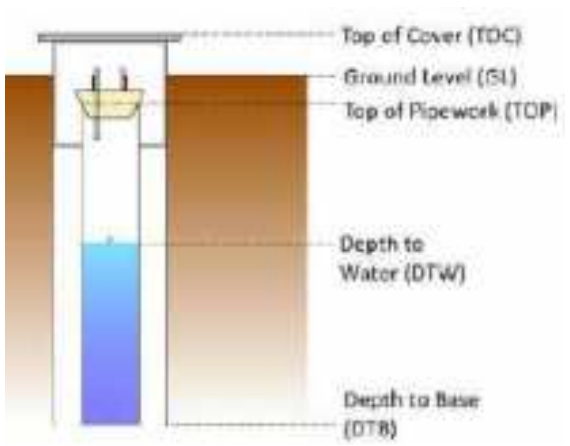
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws02	Monitoring Round Number:		4	Test Number:		4
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:32	10:32	999		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:35	10:38				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-0.1	0	0.2	0.4	20.5	0	0		
5	-0.1	15	0.2	7.4	18.5	1	0		
10	-0.1	30	0.2	8.5	7.2	0	0		
15	-0.1	60	0.2	9.3	2	0	0		
20	-0.1	90	0.2	9.4	1.6	0	0		
25	-0.1	120	0.2	9.5	1.4	0	0		
30	-0.1	180	0.2	9.5	1.6	0	0		
40	-0.1	240							
50	-0.1	300							
60	-0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	-1.8	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	-0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.98	Time:	10:32:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	3.78	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

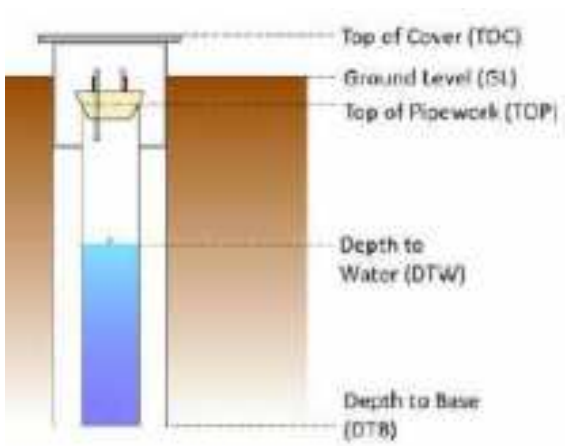
GAS MONITORING FIELD SHEET

Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C	10	Device:	Ga5000				
		Weather:	Dry	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	Ws02	Monitoring Round Number:	1	Test Number:	1				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double			
Time Start (hh:mm)	11:28	11:29	1012		Observations (e.g. on-site activities):				
Time End (hh:mm)	11:30	11:33							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-0.1	0	0.1	0.3	21.2	0	0		
5	-0.2	15	0.1	4.5	18.6	3	0		
10	-0.3	30	0.1	5.2	11.6	4	0		
15	-0.4	60	0.1	6.2	6	4	0		
20	-0.5	90	0.1	6.4	5	2	0		
25	-0.6	120	0.1	6.5	5.2	1	0		
30	-0.6	180	0.1	6.5	5.2	0	0		
40	-0.5	240							
50	-0.4	300							
60	-0.3	360							
90	-0.3	420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	-0.6	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	-0.3	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	2.23	Time:	11:22:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	4	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

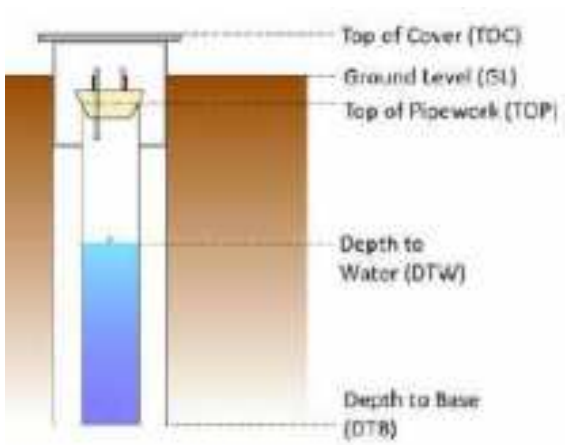
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Strong		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws02	Monitoring Round Number:		6	Test Number:		6
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:36	12:36	985		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:39	12:42				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.4	0.6	20.9	0	0		
5	0.1	15	0.4	8.2	17.6	0	0		
10	0.1	30	0.4	10	6.6	0	0		
15	0.1	60	0.4	11.4	1.1	0	0		
20	0.1	90	0.4	11.6	0.7	0	0		
25	0.1	120	0.4	11.7	0.6	0	0		
30	0.1	180	0.4	11.6	0.6	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.67	Time:	12:36:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	3.91	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

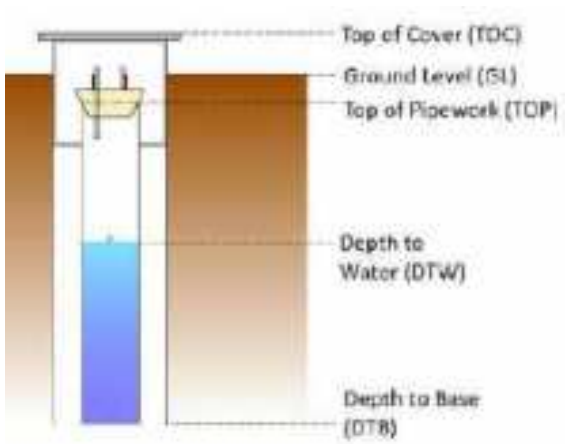
Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	0	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	WS02	Monitoring Round Number:	2	Test Number:	1		
Install Type: SINGLE / DOUBLE	Double	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	15:42	15:42	988	0.09	Observations (e.g. on-site activities):	
Time End (hh:mm)	15:45	15:52				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	-7.1	0	0.2	0.2	20.4	0	0		
5	-6	15	0.2	5.3	11.6	0	0		
10	-6	30	0.2	6.8	10.6	0	0		
15	-6	60	0.2	7.2	6.2	0	0		
20	-6	90	0.2	7.2	6.1	0	0		
25	-5.5	120	0.2	7	6.3	0	0		
30	-5	180	0.2	6.9	6.6	0	0		
40	-4.4	240							
50	-3.4	300							
60	-3.1	360							
90	-1.6	420							
120	-1.1	480							
150	-0.5	540							
180	-0.2	600							

Stage 1 gas flow - Peak (l/h)	-7.6	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.95	Time:	15:42:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	3.9	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

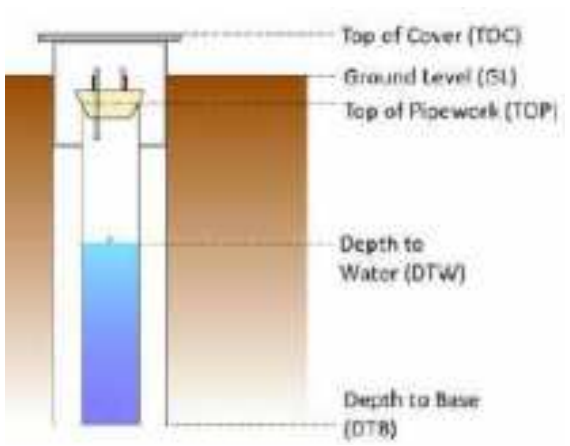
Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C	0	Device:			Ga5000
		Weather:	Dry	Serial Number:			G503316
		Ground Conditions:	Dry	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws04	Monitoring Round Number:	3	Test Number:	3		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:00	11:02	1001		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:02	11:06				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.2	21.1	0	0		
5	0.1	15	0.2	0.3	21	1	0		
10	0.1	30	0.2	0.6	16.6	0	0		
15	0.1	60	0.2	0.6	12.4	0	0		
20	0.1	90	0.2	0.6	11.2	0	0		
25	0.1	120	0.2	0.7	11.2	0	0		
30	0.1	180	0.2	0.7	11.1	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.36	Time:	11:06:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.63	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

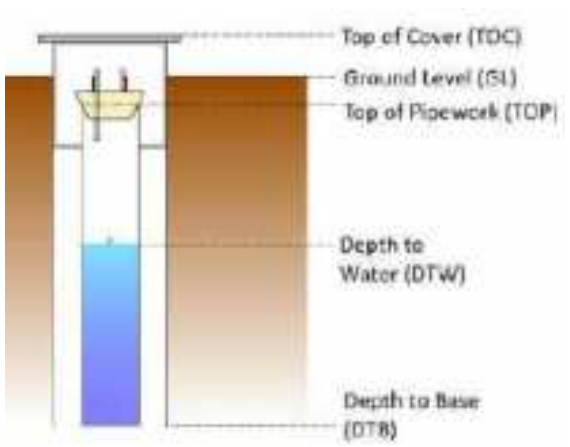
GAS MONITORING FIELD SHEET

Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C	6	Device:	Ga5000				
		Weather:	Showers	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	Ws04	Monitoring Round Number:	5	Test Number:	5				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double			
Time Start (hh:mm)	11:02	11:00	1025		Observations (e.g. on-site activities):				
Time End (hh:mm)	11:03	11:10							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	1	0	0.7	0.1	21.6	0	0		0
5	0.1	15	0.7	0.4	18.8	3	0		0
10	-0.1	30	0.7	0.6	14.6	0	0		0
15	-0.1	60	0.7	0.8	12.7	0	0		0
20	-0.1	90	0.6	0.8	12.4	0	0		0
25	-0.1	120	0.7	0.8	12.4	0	0		0.1
30	-0.1	180	0.7	0.8	12.4	0	0		0
40	-0.1	240							
50	-0.1	300							
60	-0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	1.48	Time:	11:00:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.61	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No	
	Sample Media: Gas/Water	N/A	
	Gas Cannister Start (mb)		
	Gas Cannister End (mb)		
	Gas Cannister Duration (mins)		

Depth (from datum)	Sample Ref	Type (EW / G)	Container

	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

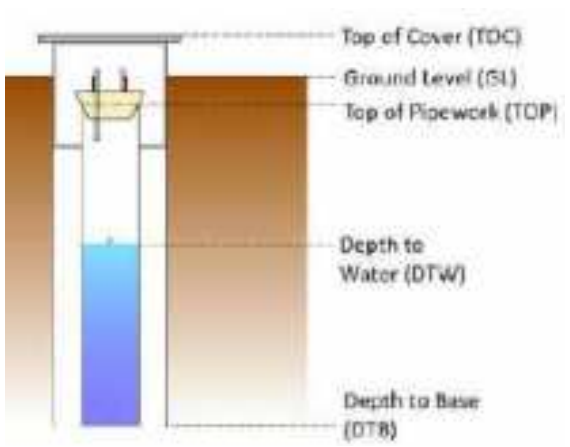
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		6	Device:		Ga5000
		Weather:		Showers	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws04	Monitoring Round Number:		4	Test Number:		4
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:12	10:07	999		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:10	10:17				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.3	0.1	21.2	0	0		
5	0.1	15	0.3	0.3	20	5	0		
10	0.1	30	0.3	0.6	13.7	0			
15	0.1	60	0.3	0.7	11.3	0	0		
20	0.1	90	0.3	0.7	10.9	0	0		
25	0.1	120	0.3	0.7	10.9	0	0		
30	0.1	180	0.3	0.7	10.8	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	10:07:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.55	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:				
	Samples Taken: Yes / No	No		
	Sample Media: Gas/Water	N/A		
	Gas Cannister Start (mb)			
	Gas Cannister End (mb)			
	Gas Cannister Duration (mins)			
	Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

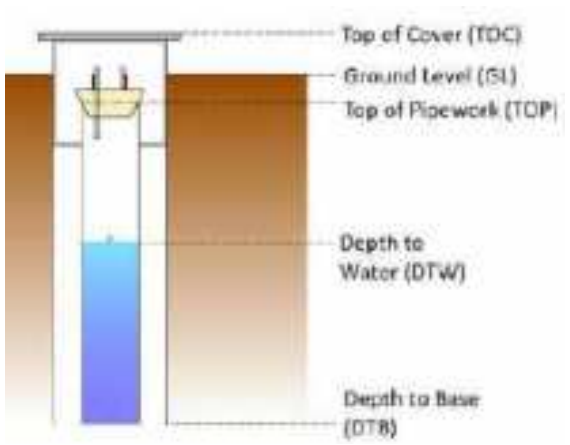
Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		10	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws04	Monitoring Round Number:		1	Test Number:		1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:52	11:55	1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:55	11:58				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.1	0.3	21.1	0	0		
5	0.1	15	0	0.3	19.5	2	0		
10	0.1	30	0.1	0.6	13.7	1	0		
15	0.1	60	0.1	0.8	10.8	0	0		
20	0.1	90	0.1	0.8	10.4	0	0		
25	0.1	120	0	0.8	10.3	0	0		
30	0.1	180	0	0.8	10.3	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	11:52:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.66	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

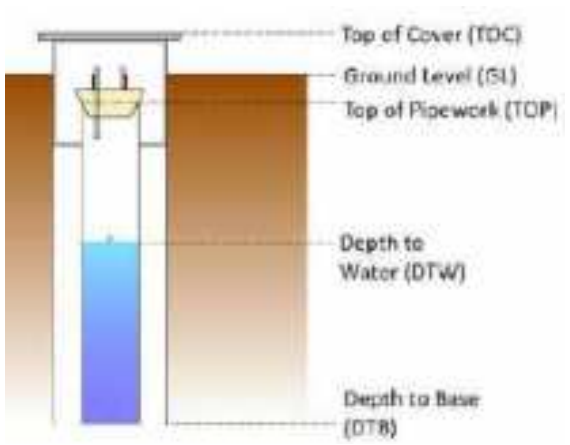
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0	
Pre-Testing Remarks:		Air Temperature: °C	6	Device:		Ga5000	
		Weather:	Dry	Serial Number:		G503316	
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Strong			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws04	Monitoring Round Number:	6	Test Number:	6		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:17	12:17	986		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:21	12:25				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.8	0.2	21.5	0	0		
5	0.1	15	0.8	0.4	20.3	1	0		
10	0.1	30	0.8	0.8	15.3	0	0		
15	0.1	60	0.8	0.9	13.7	0	0		
20	0.1	90	0.9	0.9	13.5	0	0		
25	0.1	120	0.9	0.9	13.5	0	0		
30	0.1	180	0.9	0.9	13.5	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	12:17:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.61	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

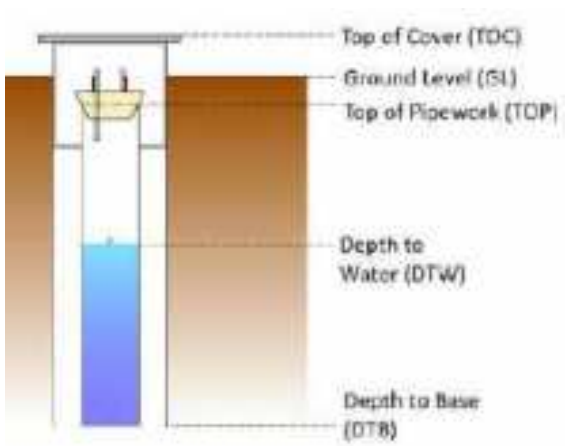
GAS MONITORING FIELD SHEET

Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C	-1	Device:	Ga5000				
		Weather:	Dry	Serial Number:	G503316				
		Ground Conditions:	Damp	Daily Check:					
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light					
		Tidal State: (if applicable) High / Low / Rising / Falling		NA					
Exploratory Position ID:	WS04	Monitoring Round Number:	2	Test Number:	1				
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double			
Time Start (hh:mm)	16:17	16:17	988		Observations (e.g. on-site activities):				
Time End (hh:mm)	16:20	16:27							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0	0.1	0.1	22.1	0	0		
5	0	15	0.2	0.6	20	0	0		
10	0	30	0.2	0.7	14.1	0	0		
15	0	60	0.2	0.8	11.7	0	0		
20	0	90	0.2	0.8	11.3	0	0		
25		120	0.1	0.8	11.2	0	0		
30		180	0.1	0.8	11.2	0	8		
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	1.47	Time:	16:17:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	1.58	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:		
	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

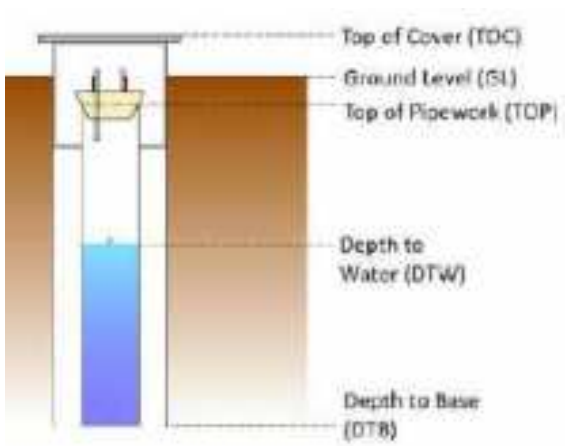
GAS MONITORING FIELD SHEET

Monitoring Date:	06/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0		
Pre-Testing Remarks:		Air Temperature: °C		0	Device:		Ga5000		
		Weather:		Dry	Serial Number:		G503316		
		Ground Conditions:		Damp	Daily Check:				
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light				
		Tidal State: (if applicable) High / Low / Rising / Falling			NA				
Exploratory Position ID:	Ws05	Monitoring Round Number:		3	Test Number:		3		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50		
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE		Double		
Time Start (hh:mm)	10:16	10:18	1000	0.17	Observations (e.g. on-site activities):				
Time End (hh:mm)	10:18	10:22							

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.1	21	0	0		
5	0.1	15	0.2	4	20.7	2	0		
10	0.1	30	0.2	4.6	15.3	0	0		
15	0.1	60	0.2	5	7	0	0		
20	0.1	90	0.2	5	4.2	0	0		
25	0.1	120	0.2	5	3.4	0	0		
30	0.1	180	0.2	5.1	3.4	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION	Depth (from datum) to water (DTW): (m)	2.03	Time:	10:03:00	LNAPL Top (from datum) (m):		
	Depth (from datum) to well base (DTB): (m)	2.14	Purge Start:		DNAPL Top (from datum) (m):		
	Hole Purged: Yes / No	No	Purge End:		Water Observations:		
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)				



Post testing remarks:	Samples Taken: Yes / No	No	
	Sample Media: Gas/Water	N/A	
	Gas Cannister Start (mb)		
	Gas Cannister End (mb)		
	Gas Cannister Duration (mins)		

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

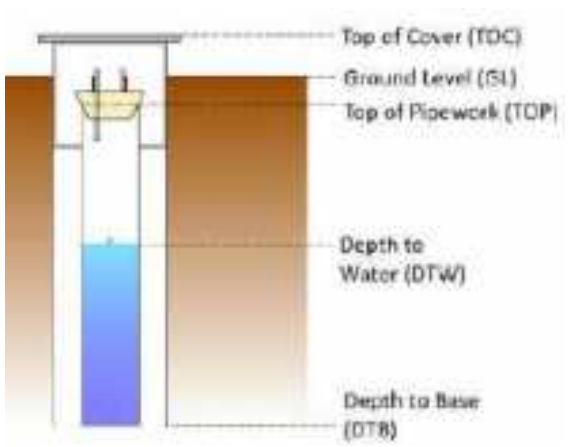
Monitoring Date:	11/01/2024	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):		0
Pre-Testing Remarks:		Air Temperature: °C	6	Device:		Ga5000
		Weather:	Showers	Serial Number:		G503316
		Ground Conditions:	Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light		
		Tidal State: (if applicable) High / Low / Rising / Falling		NA		
Exploratory Position ID:	Ws05	Monitoring Round Number:	5	Test Number:	5	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50	

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	11:08	11:08	1025		Observations (e.g. on-site activities):	
Time End (hh:mm)	11:11	11:18				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.4	0.1	21.1	0	0		0
5	0.1	15	0.3	4	18.3	3	0		0
10	0.1	30	0.4	4.6	9.6	0	0		0
15	0.1	60	0.4	4.9	6.5	0	0		0
20	-0.1	90	0.3	5	6.2	0	0		0
25	-0.1	120	0.3	5	6.2	0	0		0
30	-0.1	180	0.3	5	6.1	0	0		0
40	-0.1	240							
50	-0.1	300							
60	-0.2	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2	Time:	11:08:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	2.15	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

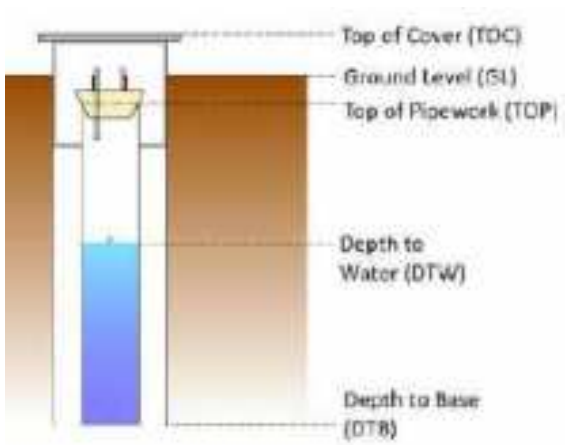
Monitoring Date:	20/12/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0	
Pre-Testing Remarks:		Air Temperature: °C	6	Device:		Ga5000	
		Weather:	Showers	Serial Number:		G503316	
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Light			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws05	Monitoring Round Number:	4	Test Number:	4		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	10:22	10:18	999		Observations (e.g. on-site activities):	
Time End (hh:mm)	10:21	10:26				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.2	0.1	20.7	0	0		
5	0.1	15	0.2	4	19.1	2	0		
10	0.1	30	0.2	4.7	8.5	0	0		
15	0.1	60	0.2	5	4.4	0	0		
20	0.1	90	0.2	5	4	0	0		
25	0.1	120	0.2	5	3.9	0	0		
30	0.1	180	0.2	5	3.9	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	DRY	Time:	10:18:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	1.94	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:				
	Samples Taken: Yes / No	No		
	Sample Media: Gas/Water	N/A		
	Gas Cannister Start (mb)			
	Gas Cannister End (mb)			
	Gas Cannister Duration (mins)			
	Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

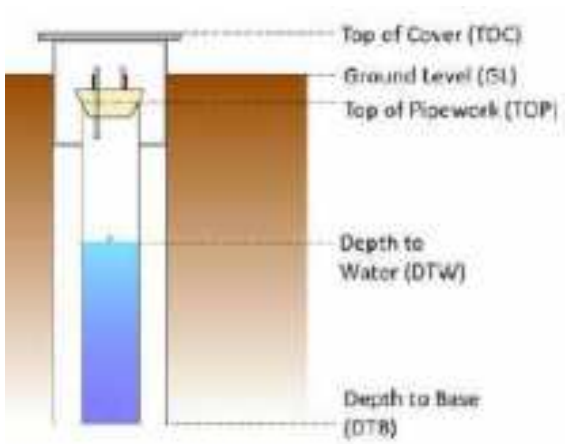
Monitoring Date:	21/11/2023	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		10	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	Ws05	Monitoring Round Number:		1	Test Number:		1
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:16	12:17	1011		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:18	12:21				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.1	0.1	21	0	0		
5	0.1	15	0.1	3.3	19.7	3	0		
10	0.1	30	0.1	3.8	10.8	1	0		
15	0.1	60	0.1	4.1	7.2	0	0		
20	0.1	90	0.1	4.2	6.8	0	0		
25	0.1	120	0.1	4.2	6.7	0	0		
30	0.1	180	0.1	4.2	6.6	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0.1	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0.1	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	1.33	Time:	12:13:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	2.12	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:				
	Samples Taken: Yes / No	No		
	Sample Media: Gas/Water	N/A		
	Gas Cannister Start (mb)			
	Gas Cannister End (mb)			
	Gas Cannister Duration (mins)			
	Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

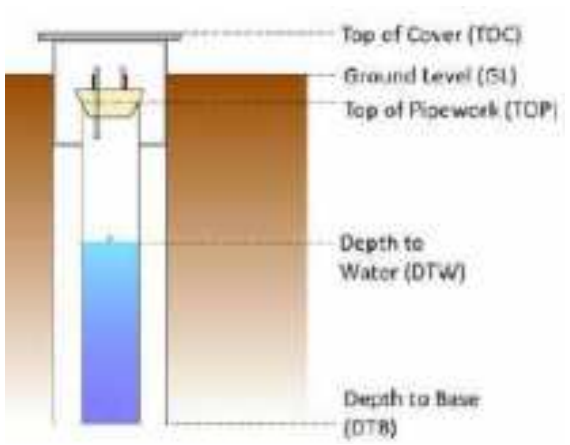
Monitoring Date:	22/01/2024	Measurement datum: TOC / GL / TOP / Other	GL	Offset to GL (m):		0	
Pre-Testing Remarks:		Air Temperature: °C	6	Device:		Ga5000	
		Weather:	Dry	Serial Number:		G503316	
		Ground Conditions:	Damp	Daily Check:			
		Wind: NONE / LIGHT / MEDIUM / STRONG		Strong			
		Tidal State: (if applicable) High / Low / Rising / Falling		NA			
Exploratory Position ID:	Ws05	Monitoring Round Number:	6	Test Number:	6		
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep	Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)	50		

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	12:26	12:26	985		Observations (e.g. on-site activities):	
Time End (hh:mm)	12:29	12:32				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0.1	0	0.7	0.1	21.3	0	0		
5	0.1	15	0.7	4.2	17.9	0	0		
10	0.1	30	0.7	5	9.7	0	0		
15	0.1	60	0.7	5.3	6.6	0	0		
20	0.1	90	0.6	5.3	6.3	0	0		
25	0.1	120	0.7	5.4	6.2	0	0		
30	0.1	180	0.7	5.3	6.2	0	0		
40	0.1	240							
50	0.1	300							
60	0.1	360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)		**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)		

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.05	Time:	12:26:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	2.15	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:

Samples Taken: Yes / No	No
Sample Media: Gas/Water	N/A
Gas Cannister Start (mb)	
Gas Cannister End (mb)	
Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

Contract Name:	Coop smithies moor	Data Collected By:	Matthew Fenton
Project Manager / Engineer:	Gareth Jones	Checked:	
Contract Ref:	323197	Page number:	

GAS MONITORING FIELD SHEET

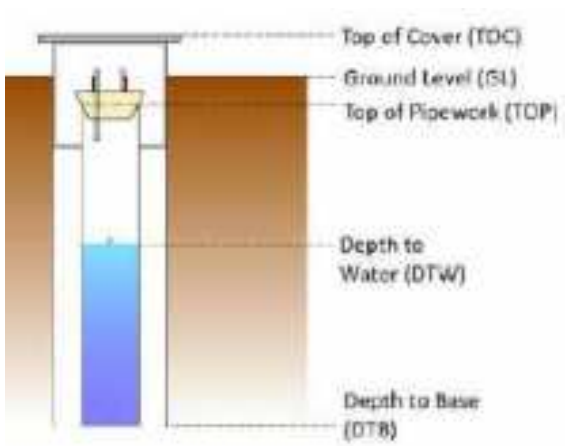
Monitoring Date:	29/11/2023	Measurement datum: TOC / GL / TOP / Other	TOC	Offset to GL (m):			0
Pre-Testing Remarks:		Air Temperature: °C		-1	Device:		Ga5000
		Weather:		Dry	Serial Number:		G503316
		Ground Conditions:		Damp	Daily Check:		
		Wind: NONE / LIGHT / MEDIUM / STRONG			Light		
		Tidal State: (if applicable) High / Low / Rising / Falling			NA		
Exploratory Position ID:	WS05	Monitoring Round Number:		2	Test Number:	1	
Install Type: SINGLE / DOUBLE	Single	Pipe Ref: 1) Shallow 2) Deep		Shallow	Pipe Diameter: 19mm/ 40mm / 50mm / Other (mm)		50

Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: SINGLE / DOUBLE	Double
Time Start (hh:mm)	16:04	16:04	988	0.09	Observations (e.g. on-site activities):	
Time End (hh:mm)	16:07	16:14				

Stage 1 Flow Readings	**Stage 1** Flow Readings	**Stage 2** Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	LEL (%)	PID (ppm)
Time of flow monitoring (sec)	Flow Reading (l/hr)	Time of gas monitoring (sec)							
0	0	0							
5	0	15							
10	0	30							
15	0	60							
20	0	90							
25	0	120							
30	0	180							
40		240							
50		300							
60		360							
90		420							
120		480							
150		540							
180		600							

Stage 1 gas flow - Peak (l/h)	0	**Note:** Flow should be recorded at 5 second intervals up to 30 seconds, 10 second intervals to 2 minutes and 30 second intervals up to 3 minutes or until steady-state readings are obtained. Typically, steady state conditions occur within 30 seconds to a minute. The differential pressure reading (in Pa) should also be recorded during this period.
Stage 1 gas flow - Steady State (l/h)	0	

STAGE 3 WATER LEVEL OBSERVATION						
	Depth (from datum) to water (DTW): (m)	2.03	Time:	16:04:00	LNAPL Top (from datum) (m):	
	Depth (from datum) to well base (DTB): (m)	2.11	Purge Start:		DNAPL Top (from datum) (m):	
	Hole Purged: Yes / No	No	Purge End:		Water Observations:	
	Purge Volume: (ltrs)		Post-Purge (DTW) (m)			



Post testing remarks:	Samples Taken: Yes / No	No
	Sample Media: Gas/Water	N/A
	Gas Cannister Start (mb)	
	Gas Cannister End (mb)	
	Gas Cannister Duration (mins)	

Depth (from datum)	Sample Ref	Type (EW / G)	Container

RSK	Contract Name:	Coop smithies moor	Data Collected By:	Tom Brereton
	Project Manager / Engineer:	Gareth Jones	Checked:	
	Contract Ref:	323197	Page number:	

Job Number:
Client:
Site:

BH NO.	DATE	DTW	CH4 I	CH4 SS	CO2 I	CO2 SS	O2 I	O2 SS	Flow	Baro	BH Press	I SUM	SS SUM	GSV		CS No.
		m/bc	%v/v	%v/v	%v/v	%v/v	%v/v	%v/v	l/hr	mbar	mbar	%v/v	%v/v	CH4	CO2	
R01	21/11/2023	8.85	0.2	0.1	0.1	0.9	21.5	9.0	0.1	1011	0.29	21.8	10.0	0.00	0.00	CS1
	29/11/2023	8.67	0.2	0.2	0.2	3.7	22.0	5.3	0.1	988		22.4	9.2	0.00	0.00	CS1
	06/12/2023	9.22	0.2	0.1	0.2	4.0	21.8	1.8	0.1	1001		22.2	5.9	0.00	0.00	CS1
	20/12/2023	12.88	0.2	0.2	0.3	5.1	21.4	1.6	0.1	999		21.9	6.9	0.00	0.01	CS1
	11/01/2024	8.58	0.2	0.2	0.6	5.3	21.3	2.3	0.1	1025		22.1	7.8	0.00	0.01	CS1
	22/01/2024	8.31	0.3	0.3	0.6	5.5	21.5	2.7	0.1	985		22.4	8.5	0.00	0.01	CS1
WS01	21/11/2023	0.92	0.1	0.1	0.1	2.1	20.8	16.7	0.1	1011	0.3	21.0	18.9	0.00	0.00	CS1
	29/11/2023	0.94	0.2	0.2	0.4	2.3	20.5	18.3	0.1	988		21.1	20.8	0.00	0.00	CS1
	06/12/2023	0.84	0.2	0.1	0.2	2.3	21.6	19.8	0.1	1001		22.0	22.2	0.00	0.00	CS1
	20/12/2023	0.91	0.1	0.1	0.1	2.6	20.5	17.9	0.1	999		20.7	20.6	0.00	0.00	CS1
	11/01/2024	1.05	0.2	0.2	0.3	3.6	21.8	14.3	-0.1	1025		22.3	18.1	0.00	0.00	CS1
	22/01/2024	DRY	0.6	0.3	1.0	4.0	20.9	14.1	0.1	985		22.5	18.4	0.00	0.00	CS1
WS02	21/11/2023	2.23	0.1	0.1	0.3	6.5	21.2	5.2	-0.3	1012		21.6	11.8	0.00	-0.02	CS1
	29/11/2023	1.95	0.2	0.2	0.2	6.9	20.4	6.6	-0.2	988		20.8	13.7	0.00	-0.01	CS1
	06/12/2023	2.11	0.2	0.1	0.1	0.1	21.3	21.3	0.1	1001		21.6	21.5	0.00	0.00	CS1
	20/12/2023	2.98	0.2	0.2	0.4	9.5	20.5	1.6	-0.1	999		21.1	11.3	0.00	-0.01	CS1
	11/01/2024	2.62	0.3	0.2	0.5	2.0	21.0	19.0	0.1	1025		21.8	21.2	0.00	0.00	CS1
	22/01/2024	2.67	0.4	0.4	0.6	11.7	20.9	0.6	0.1	985		21.9	12.7	0.00	0.01	CS1
WS04	21/11/2023	1.45	0.1	<0.1	0.3	0.8	21.1	10.3	0.1	1011		21.5	11.1	0.00	0.00	CS1
	29/11/2023	1.47	0.1	0.1	0.1	0.8	22.1	11.2	0.1	988		22.3	12.1	0.00	0.00	CS1
	06/12/2023	1.36	0.2	0.2	0.2	0.7	21.1	11.1	0.1	1001		21.5	12.0	0.00	0.00	CS1
	20/12/2023	DRY	0.3	0.3	0.1	0.7	21.2	10.8	0.1	999		21.6	11.8	0.00	0.00	CS1
	11/01/2024	1.48	0.7	0.7	0.1	0.8	21.6	12.4	-0.1	1025		22.4	13.9	0.00	0.00	CS1
	22/01/2024	DRY	0.8	0.9	0.2	0.9	21.5	13.5	0.1	986		22.5	15.3	0.00	0.00	CS1
WS05	21/11/2023	1.33	0.1	0.1	0.1	4.2	21.0	6.6	0.1	1011		21.2	10.9	0.00	0.00	CS1
	29/11/2023	2.03								988		0.0	0.0	0.00	0.00	CS1
	06/12/2023	2.03	0.2	0.2	0.1	5.1	21.0	3.4	0.1	1000		21.3	8.7	0.00	0.01	CS1
	20/12/2023	DRY	0.2	0.2	0.1	5.0	20.7	3.9	0.1	999		21.0	9.1	0.00	0.01	CS1
	11/01/2024	2.00	0.4	0.3	0.1	5.0	21.1	6.1	-0.2	1025		21.6	11.4	0.00	-0.01	CS1
	22/01/2024	2.05	0.7	0.7	0.1	5.4	21.3	6.2	0.1	985		22.1	12.3	0.00	0.01	CS1
R03	21/11/2023	5.32	0.1	0.1	0.8	0.6	20.9	17.5	0.1	1011		21.8	18.2	0.00	0.00	CS1
	29/11/2023	5.05	0.2	0.2	0.2	0.6	21.4	19.3	-0.4	988		21.8	20.1	0.00	0.00	CS1
	06/12/2023	4.81	0.2	0.2	0.8	0.7	19.3	18.3	0.1	1000		20.3	19.2	0.00	0.00	CS1
	20/12/2023	4.92	0.4	0.4	0.1	0.8	21.4	18.5	-0.1	999		21.9	19.7	0.00	0.00	CS1
	11/01/2024	5.90	0.8	0.9	0.1	0.5	21.5	20.1	-1.1	1025		22.4	21.5	-0.01	-0.01	CS1
	22/01/2024	6.02	0.7	0.8	0.1	1.6	21.5	16.8	-3.2	985		22.3	19.2	-0.02	-0.05	CS1

WORST-CASE VALUES PER BOREHOLE

			Maximum CH4		Maximum CO2		Minimum O2		Max Flow	Not Applicable		Maximum Total		Maximum GSVs		CS No
R01			0.3	0.3	0.6	5.5	21.3	1.6	0.1			22.2	7.4	0.00	0.01	CS1
WS01			0.6	0.3	1.0	4.0	20.5	14.1	0.1			22.1	18.4	0.00	0.00	CS1
WS02			0.4	0.4	0.6	11.7	20.4	0.6	0.1			21.4	12.7	0.00	0.01	CS1
WS04			0.8	0.9	0.3	0.9	21.1	10.3	0.1			22.2	12.1	0.00	0.00	CS1
WS05			0.7	0.7	0.1	5.4	20.7	3.4	0.1			21.5	9.5	0.00	0.01	CS1
R03			0.8	0.9	0.8	1.6	19.3	16.8	0.1			20.9	19.3	0.00	0.00	CS1

Appendix H
CHEMICAL LAB TESTING REPORTS

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/10785
Issue Number: 1 **Date:** 13 November, 2023

Client: RSK Environment Helsby
Spring Lodge
172 Chester Road
Helsby
Cheshire
UK
WA6 0AR

Project Manager: Gareth Jones
Project Name: Co-Op Smithies Moor
Project Ref: 323197
Order No: N/A
Date Samples Received: 30/10/23
Date Instructions Received: 01/11/23
Date Analysis Completed: 13/11/23

Approved by:

Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 23/10785

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS01	WS02	WS02	WS03	WS03					
Depth to Top	0.20	0.30	0.90	0.20	1.00					
Depth To Bottom	0.30	0.40	1.10	0.30	1.20					
Date Sampled	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4A	4AB	3	6ABE	3					
% Stones >10mm$_A$	<0.1	38.3	<0.1	32.7	<0.1			% w/w	0.1	A-T-044
pH$_D$ M#	7.45	10.09	7.60	9.27	-			pH	0.01	A-T-031s
pH BRE$_D$ M#	7.45	-	7.60	-	8.37			pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1)$_D$ M#	<10	-	30	-	70			mg/l	10	A-T-026s
Sulphate BRE (acid sol)$_D$ M#	0.07	-	0.02	-	<0.02			% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	0.06	-	0.03	-	0.01			% w/w	0.01	A-T-024s
Cyanide (free)$_A$ M#	<1	<1	<1	<1	-			mg/kg	1	A-T-042sFCN
Total Organic Carbon$_D$ M#	9.00	-	2.15	-	-			% w/w	0.03	A-T-032s
Arsenic$_D$ M#	29	4	<1	5	-			mg/kg	1	A-T-024s
Cadmium$_D$ M#	0.8	0.7	<0.5	1.2	-			mg/kg	0.5	A-T-024s
Copper$_D$ M#	106	20	31	24	-			mg/kg	1	A-T-024s
Chromium$_D$ M#	40	20	27	19	-			mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	-			mg/kg	1	A-T-040s
Lead$_D$ M#	79	41	24	63	-			mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	-			mg/kg	0.17	A-T-024s
Nickel$_D$ M#	28	10	35	13	-			mg/kg	1	A-T-024s
Selenium$_D$ M#	2	<1	<1	<1	-			mg/kg	1	A-T-024s
Zinc$_D$ M#	186	83	108	114	-			mg/kg	5	A-T-024s

Envirolab Job Number: 23/10785

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS01	WS02	WS02	WS03	WS03					
Depth to Top	0.20	0.30	0.90	0.20	1.00					
Depth To Bottom	0.30	0.40	1.10	0.30	1.20					
Date Sampled	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4A	4AB	3	6ABE	3					
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_D^{\#}$	NAD	NAD	NAD	NAD	-					A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	-					A-T-045

Envirolab Job Number: 23/10785

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS01	WS02	WS02	WS03	WS03					
Depth to Top	0.20	0.30	0.90	0.20	1.00					
Depth To Bottom	0.30	0.40	1.10	0.30	1.20					
Date Sampled	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4A	4AB	3	6ABE	3					
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.70	0.08	<0.01	0.08	-			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.05	0.03	<0.01	0.04	-			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	1.27	0.17	<0.02	0.21	-			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	4.40	0.72	<0.04	1.36	-			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	3.16	0.54	<0.04	1.17	-			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	4.40	0.69	<0.05	1.45	-			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	1.36	0.28	<0.05	0.59	-			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	1.60	0.26	<0.07	0.57	-			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	5.05	0.69	<0.06	1.24	-			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.36	0.06	<0.04	0.13	-			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	10.2	1.06	<0.08	1.68	-			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.58	0.06	<0.01	0.06	-			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	1.70	0.35	<0.03	0.75	-			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.36	0.04	<0.03	0.05	-			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	7.29	0.64	0.06	0.76	-			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	8.88	1.33	<0.07	1.84	-			mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	51.4	7.00	<0.08	12	-			mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/10785

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS01	WS02	WS02	WS03	WS03					
Depth to Top	0.20	0.30	0.90	0.20	1.00					
Depth To Bottom	0.30	0.40	1.10	0.30	1.20					
Date Sampled	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23	27-Oct-23					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4A	4AB	3	6ABE	3					
TPH CWG with Clean Up										
Ali >C5-C6$_A$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	3	<1	<1	<1	-			mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	3	<1	<1	<1	-			mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	5	2	1	2	-			mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	6	6	1	5	-			mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	18	63	5	62	-			mg/kg	1	A-T-055s
Total Aliphatics$_A$	35	72	8	69	-			mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	1	1	<1	<1	-			mg/kg	1	A-T-055s
Aro >C10-C12$_A$	5	<1	<1	<1	-			mg/kg	1	A-T-055s
Aro >C12-C16$_A$	25	4	3	3	-			mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	122	15	3	10	-			mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	345	56	8	50	-			mg/kg	1	A-T-055s
Total Aromatics$_A$	498	77	13	63	-			mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35)$_A$	533	149	21	132	-			mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	-			mg/kg	0.01	A-T-022s

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^{o}C / 11550µS/cm @ 20^{o}C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: RSK Environment Helsby, Spring Lodge, 172 Chester Road, Helsby, Cheshire, UK, WA6 0AR

Project: Co-Op Smithies Moor

Clients Project No: 323197

Project No: 23/10785

Date Received: 01/11/2023 (am)

Cool Box Temperatures (°C): 13.1

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5
Client Sample No					
Client Sample ID/Depth	WS01 0.20-0.30m	WS02 0.30-0.40m	WS02 0.90-1.10m	WS03 0.20-0.30m	WS03 1.00-1.20m
Date Sampled	27/10/23	27/10/23	27/10/23	27/10/23	27/10/23
A-T-019s	09/11/2023	09/11/2023	09/11/2023	09/11/2023	
A-T-022s	13/11/2023	09/11/2023	09/11/2023	09/11/2023	
A-T-024s	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
A-T-026s	09/11/2023		09/11/2023		09/11/2023
A-T-028s	09/11/2023		09/11/2023		09/11/2023
A-T-031s	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
A-T-032s	10/11/2023		10/11/2023		
A-T-040s	09/11/2023	09/11/2023	09/11/2023	09/11/2023	
A-T-042sFCN	13/11/2023	13/11/2023	13/11/2023	13/11/2023	
A-T-044	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
A-T-045	03/11/2023	03/11/2023	03/11/2023	03/11/2023	
A-T-055s	07/11/2023	07/11/2023	07/11/2023	07/11/2023	
Calc-As Recd	13/11/2023	09/11/2023	09/11/2023	09/11/2023	

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/10894
Issue Number: 1 **Date:** 17 November, 2023

Client: RSK Environment Helsby
Spring Lodge
172 Chester Road
Helsby
Cheshire
UK
WA6 0AR

Project Manager: Gareth Jones
Project Name: Co-Op Smithies Moor
Project Ref: 323197
Order No: N/A
Date Samples Received: 01/11/23
Date Instructions Received: 03/11/23
Date Analysis Completed: 17/11/23

Approved by:

Richard Wong
Client Manager

Envirolab Job Number: 23/10894

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10894/2	23/10894/4						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS04	R05								
Depth to Top	0.70	2.10								
Depth To Bottom	0.80	2.30								
Date Sampled	30-Oct-23	01-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3	3E								
% Stones >10mm$_A$	<0.1	<0.1						% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.00	-						pH	0.01	A-T-031s
pH BRE$_D^{M\#}$	7.00	4.48						pH	0.01	A-T-031s
Chloride BRE, SO4 equiv. (water sol 2:1)$_D$	-	<7						mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1)$_D$	-	<0.4						mg/l	0.4	A-T-026s
Sulphate BRE (water sol 2:1)$_D^{M\#}$	97	1510						mg/l	10	A-T-026s
Sulphate BRE (acid sol)$_D^{M\#}$	0.02	0.02						% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	0.01	0.17						% w/w	0.01	A-T-024s
Cyanide (free)$_A^{M\#}$	<1	-						mg/kg	1	A-T-042sFCN
Arsenic$_D^{M\#}$	<1	-						mg/kg	1	A-T-024s
Cadmium$_D^{M\#}$	0.6	-						mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	13	-						mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	26	-						mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	-						mg/kg	1	A-T-040s
Lead$_D^{M\#}$	26	-						mg/kg	1	A-T-024s
Mercury$_D$	<0.17	-						mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	18	-						mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	2	-						mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	70	-						mg/kg	5	A-T-024s

Envirolab Job Number: 23/10894

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10894/2	23/10894/4						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS04	R05								
Depth to Top	0.70	2.10								
Depth To Bottom	0.80	2.30								
Date Sampled	30-Oct-23	01-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3	3E								
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	-								A-T-045
Asbestos Matrix (visual)$_{D}$	-	-								A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-								A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	-								A-T-045

Envirolab Job Number: 23/10894

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10894/2	23/10894/4						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS04	R05								
Depth to Top	0.70	2.10								
Depth To Bottom	0.80	2.30								
Date Sampled	30-Oct-23	01-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3	3E								
PAH-16MS										
Acenaphthene$_A^{M\#}$	<0.01	-						mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	-						mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	-						mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	-						mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	-						mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	-						mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	-						mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	-						mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	-						mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.04	-						mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	-						mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	-						mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	-						mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	-						mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	-						mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	-						mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	<0.08	-						mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/10894

Client Project Name: Co-Op Smithies Moor

Client Project Ref: 323197

Lab Sample ID	23/10894/2	23/10894/4						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS04	R05								
Depth to Top	0.70	2.10								
Depth To Bottom	0.80	2.30								
Date Sampled	30-Oct-23	01-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3	3E								
TPH CWG with Clean Up										
Ali >C5-C6$_A$	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	-						mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	1	-						mg/kg	1	A-T-055s
Total Aliphatics$_A$	1	-						mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	-						mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	-						mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	-						mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	-						mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35)$_A$	1	-						mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^{o}C / 11550µS/cm @ 20^{o}C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: RSK Environment Helsby, Spring Lodge, 172 Chester Road, Helsby, Cheshire, UK, WA6 0AR

Project: Co-Op Smithies Moor

Clients Project No: 323197

Project No: 23/10894

Date Received: 03/11/2023 (am)

Cool Box Temperatures (°C): 11.1

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/10894/2	23/10894/4
Client Sample No		
Client Sample ID/Depth	WS04 0.70-0.80m	R05 2.10-2.30m
Date Sampled	30/10/23	01/11/23
A-T-019s	10/11/2023	
A-T-022s	10/11/2023	
A-T-024s	13/11/2023	13/11/2023
A-T-026s	10/11/2023	17/11/2023
A-T-028s	13/11/2023	13/11/2023
A-T-031s	10/11/2023	10/11/2023
A-T-040s	13/11/2023	
A-T-042sFCN	13/11/2023	
A-T-044	13/11/2023	13/11/2023
A-T-045	07/11/2023	
A-T-055s	09/11/2023	
Calc-As Recd	10/11/2023	

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Appendix I
GEOTECHNICAL LAB REPORTS

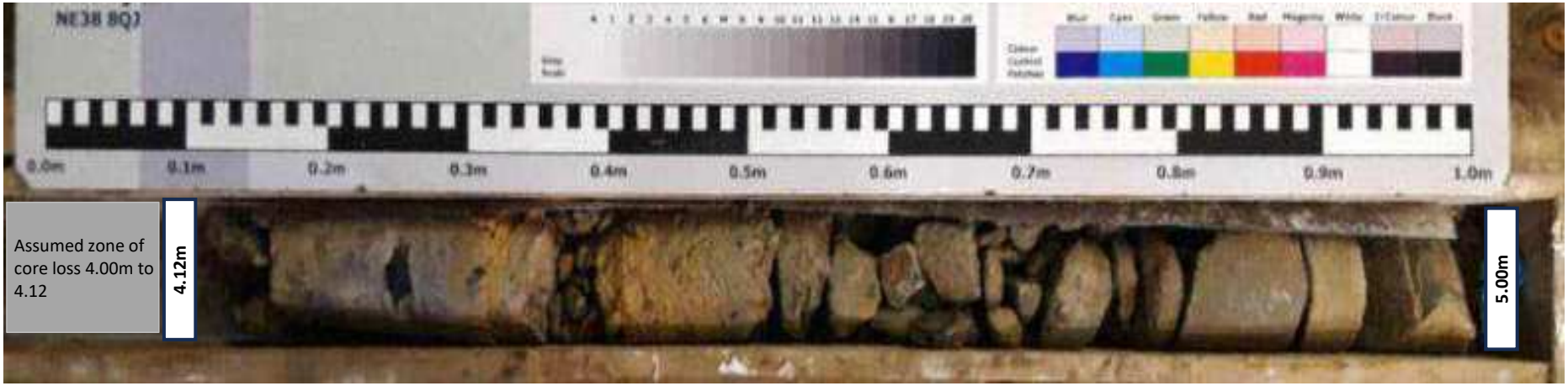
CONTRACT NUMBER:	323197	**CONTRACT NAME:**	CO-OP Academy
BOREHOLE NUMBER:	R01		
CORE RUN	**TCR**	**SCR**	**RQD**
4.00m to 5.00m	88%	26%	0%

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R01		

Depth (m)	Discontinuity Spacing (m)	FI	Rock Description
4.00 to 4.12	Assumed zone of core loss	AZCL	4.00m to 4.12m: Assumed zone of core loss.
4.12 to 4.16	Non-intact	NI	4.12m to 4.16m: Grey SILTSTONE. Recovered as non-intact very weak gravel size fragments due to possible drilling disturbance.
4.16 to 4.36	Not applicable	NA	4.16m to 4.36m: Soft to firm light grey and light yellow CLAY with occasional inclusions of coarse angular gravel size coal fragments.
4.36 to 4.40	Non-intact	NI	4.36m to 4.40m: Grey SILTSTONE locally iron impregnated. Recovered as non-intact extremely weak and very weak gravel size fragments, due to possible drilling disturbance.
4.40 to 4.51	Not applicable	NA	4.40m to 4.51m: Firm light grey and light yellow CLAY.
4.51 to 4.58	0.03,0.04 FI=2/0.07	28	4.51m to 4.58m: Extremely weak grey SILTSTONE. Discontinuities: Horizontal very closely spaced, planar, rough.
4.58 to 4.81	Non-intact	NI	4.58m to 5.00m: Weak grey SILTSTONE. Predominantly recovered non-intact due to possible drilling disturbance. Discontinuities where discernible: Horizontal very closely and closely spaced, planar, rough. Weathering: Occasional orange brown surface discolouration on non-intact fragments.
4.81 to 5.00	0.06, 0.04, 0.09 FI = 3/0.19	16	

IAN FARMER ASSOCIATES

Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R01
4.00m to 5.00m



CONTRACT NUMBER:	323197	**CONTRACT NAME:**	CO-OP Academy
BOREHOLE NUMBER:	R02		
CORE RUN	**TCR**	**SCR**	**RQD**
3.60m to 4.00m	100%	20%	0%
4.10m to 5.60m	80%	19%	13%
16.40 to 17.20	90%	61%	0%
17.20 to 17.70	100%	82%	0%
18.20 to 19.20	23%	23%	0%

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R02		

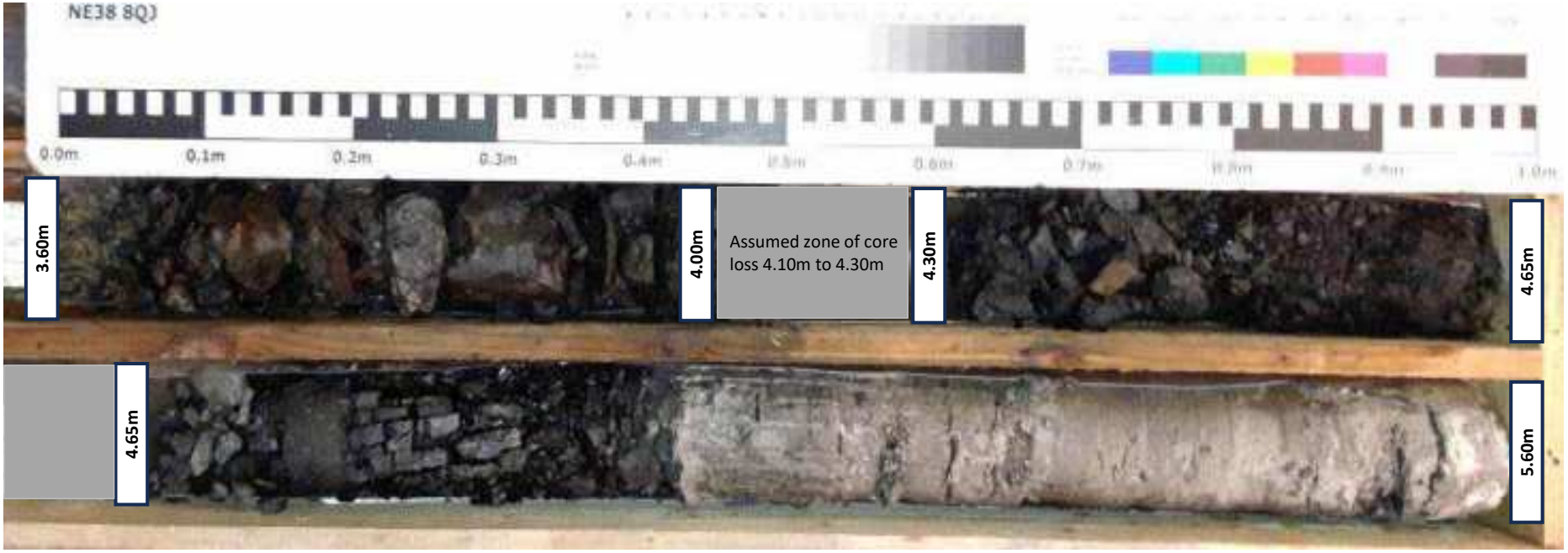
Depth (m)	Discontinuity Spacing	FI	Rock Description
3.60 to 3.85	Non-intact	NI	3.60m to 4.00m: Black carbonaceous MUDSTONE with occasional thin laminations of light grey fin grained sandstone. Predominantly recovered non-intact as weak gravel size fragments, due to possible drilling disturbance. Weathering: Occasional dark red brown surface discolouration on non-intact fragments. From 3.70m o 3.73m: Strong Ironstone.
3.85 to 3.93	0.08 FI= 1/0.08	13	
3.93 to 4.00	Non-intact	NI	
4.10 to 4.30	Assumed zone of core loss	AZCL	4.10m to 4.30m: No core recovery, assumed zone of core loss.
4.30 to 4.65	Non-intact	NI	4.30 to 4.65m: Black carbonaceous MUDSTONE with occasional thin laminations of black vitreous coal. Recovered non-intact as weak gravel size fragments, due to possible drilling disturbance.
4.65 to 5.05	Non-intact	NI	4.65m to 5.05m: Weak black vitreous COAL with very closely spaced vertical discontinuities, predominantly recovered non-intact.
5.05 to 5.20	Not applicable	NA	5.05m to 5.20m: Firm grey CLAY (Possible seat earth).
5.20 to 5.48	0.04, 0.05, 0.19, FI= 3/0.28	11	5.20m to 5.60m: Extremely weak, locally weak, grey MUDSTONE. Discontinuities: Horizontal very closely and closely spaced, planar, smooth. From 5.55m to 5.60m: Weak
5.48 to 5.52	Not applicable	NA	
5.52 to 5.60	0.03, 0.05, FI=2/0.08	25	

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R02		

Depth (m)	Discontinuity Spacing (m)	FI	Rock Description
16.40 to 16.48	No recovery – assumed zone of core loss	AZCL	16.40m to 16.48m: Assumed Zone of Core Lose
16.48 to 16.61	Not applicable	NA	16.48m to 16.61m: Soft /very soft grey slightly gravelly CLAY. Gravel is angular and subangular mudstone. Possible mudstone 'softened' by drilling flush.
16.61 to 17.04	0.90, 0.04, 0.03, 0.03, 0.03, 0.04, 0.04, 0.02, 0.070, 0.02, 0.02 FI=11/0.43	25	16.61m to 17.70m: Weak to moderately weak black carbonaceous MUDSTONE. Discontinuities: Horizontal, very closely to closely spaced (some possibly drilling induced), planar smooth. Weathering: None discernible.
17.04 to 17.20	Non-intact	NI	
17.14 to 17.31	0.02, 0.04, 0.05, 0.02, 0.04 FI=5/0.17	29	
17.31 to 17.42	Non-intact	NI	
17.42 to 17.70	0.08, 0.09, 0.08, 0.03 FI= 4/0.28	14	
18.20 to 18.97	No recovery, assumed zone of core loss	AZCL	18.20m to 18.97m: Assumed Zone of Core Loss.
18.97 to 19.20			18.97m to 19.20m: Weak to moderately weak black and dark grey carbonaceous MUDSTONE. Discontinuities: Horizontal, very closely to closely spaced (some possibly drilling induced), planar smooth. Weathering: None discernible.

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Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R01
4.00m to 5.00m



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Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R02
16.20m to 19.20m



CONTRACT NUMBER:	323197	**CONTRACT NAME:**	CO-OP Academy
BOREHOLE NUMBER:	R03		
CORE RUN	**TCR**	**SCR**	**RQD**
4.00 to 5.00m	71%	N/A	N/A
5.00m to 5.30m	100%	77%	50%
5.30m to 5.80m	72%	58%	0%
5.80m to 6.80m	100%	57%	39%

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R03	Page 1 of 2	

Depth (m)	Discontinuity Spacing	FI	Rock Description
4.00 to 4.29m	Assumed zone of core loss, no core recovery.	AZCL	4.00m to 4.29m: Assumed Zone of Core Loss
4.29 to 4.39	Non-intact	NI	4.29m to 4.39m: Black vitreous COAL. Recovered non-intact as weak gravel size fragments.
4.39 to 4.50	Not applicable	NA	4.39m to 4.50m: Soft light grey and light yellow brown CLAY
4.50 to 4.60m	Not applicable	NA	4.50m to 4.60m: Soft grey slightly gravelly CLAY. Gravel is angular fine and medium coal.
4.60 to 5.00	Not applicable	NA	4.60m to 5.00m: Grey SILTSTONE. Recovered as soft and firm CLAY with occasional extremely weak gravel size siltstone fragments (probably drilling disturbed material softened by drilling flush).
5.00 to 5.15	0.15 FI-1/0.15	7	5.00m to 5.30m: Extremely weak grey SILTSTONE. From 5.00m to 5.15m: Localised areas of core 'softened' to clay, due to possible drilling disturbance.
5.15 to 5.22	Non-intact	NI	
5.22 to 5.30	0.03, 0.05 FI= 2/0.08	25	
5.33 to 5.44	Assumed zone of core loss, no core recovery.	NR	5.33m to 5.44m: Assumed Zone of Core Loss.
5.44 to 5.48	Non-intact	NI	5.44m to 6.80m: Weak to moderately weak grey fine sandy SILTSTONE. Discontinuities: Horizontal, occasionally subhorizontal, very closely to closely spaced (some possibly drilling induced), planar and undulating, smooth. Weathering: Occasional orange brown discolouration on discontinuity surfaces. From 6.41m to 6.80m: With occasional thick laminations of dark grey mudstone and vertical to subvertical discontinuity with orange brown surface discolouration
5.48 to 5.74	0.04, 0.02, 0.03, 0.02, 0.03, 0.07, 0.05 FI=7/0.26	27	
5.74 to 5.77	Non-intact	NI	
5.77 to 5.80	0.03 FI= 1/0.03	33	
5.80 to 5.93	0.13 FI= 1/0.13	8	
5.93 to 5.98	Non-intact	NI	
5.98 to 6.12	0.14 FI=1/0.14	7	
6.12 to 6.16	Non-intact	NI	

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R03	Page 2 of 2	

Depth (m)	Discontinuity Spacing	FI	Rock Description
6.16 to 6.41	0.02, 0.03, .12, 0.03, 0.04 FI=5/0.25	20	
6.41 to 6.55	Non-intact	NI	
6.55 to 6.60	0.05 FI=1/0.05	20	
6.60 to 6.80	Non-intact	NI	

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Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R03
4.00m to 6.80m



CONTRACT NUMBER:	323187	**CONTRACT NAME:**	CO-OP Academy
BOREHOLE NUMBER:	R04		
CORE RUN	**TCR**	**SCR**	**RQD**
5.50 to 7.00	87%	61%	7%
7.00 to 8.00	100%	56%	16%

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R04		

Depth (m)	Discontinuity Spacing	FI	Rock Description
5.50 to 5.70	Assumed zone of Core loss, No core recovery.	AZCL	5.50m to 5.70m: Assumed Zone of Core Loss
5.70 to 5.92	Not Applicable	NA	5.70m to 5.92m: Soft grey CLAY with fragments of black vitreous coal (adhering to outer surface of clay).
5.92 to 6.21	0.09, 0.11, 0.09, FI= 3/0.27	11	5.92m to 6.50m: Very weak and extremely weak light grey SILTSTONE. Discontinuities: Horizontal to subhorizontal, closely and very closely spaced, planar smooth. Weathering: Occasional orange surface discolouration on discontinuities. From 6.45m to 6.50m: Extremely weak.
6.21 to 6.30	Non-intact	NI	
6.30 to 6.50	0.10, 0.05, 0.05, FI=3/0.20	15	
6.50 to 6.61	0.06, 0.05, FI=2/0.11	18	6.50m to 7.00m: Weak to moderately weak thickly and thinly laminated SILTSTONE. Discontinuities: Horizontal, very closely and closely spaced, planar and undulating, smooth. Weathering: Occasional orange brown surface discolouration on discontinuity surfaces.
6.61 to 6.63	Non-intact	NI	
6.63 to 6.76	0.06, 0.07, FI=2/0.13	15	
6.76 to 6.80	Non-intact	NI	
6.80 to 7.00	0.07, 0.065, 0.03, 0.035, FI=4/0.20	20	
7.00 to 7.19	Not Applicable	NA	7.00m to 7.19m: Very soft grey CLAY (Possible drilling disturbed material, siltstone/mudstone 'softened by drilling flush).
7.19 to 7.43	0.01, 0.08, 0.06 FI=4/0.24	13	7.19m to 7.59m: Moderately weak grey SILTSTONE. Discontinuities: 1) Horizontal to subhorizontal, closely spaced, planar smooth. 2) Vertical discontinuity with orange brown surface discolouration.
7.43 to 7.59	Non-intact	NI	
7.59 to 7.91	0.16, 0.07, 0.09, FI=3/0.32	9	7.59m to 8.00m: Weak grey MUDSTONE. Discontinuities: Horizontal, closely spaced, undulating smooth (possible drilling induced). Weathering: None discernible (fresh). From 7.91m to 8.00m: Non-intact – drilling induced.
7.91 to 8.00	Non-intact	NI	

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Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R04
5.50m to 8.00m



CONTRACT NUMBER:	323197	**CONTRACT NAME:**	CO-OP Academy
BOREHOLE NUMBER:	R05		
CORE RUN	**TCR**	**SCR**	**RQD**
2.70 to 4.00	8%	0%	0%
3.70 to 4.00	100%	0%	0%
4.50 to 5.50 (5.74) [Labels in core box indicate 1.00m core run (4.50 to 5.50m). Actual core recovered 1.24m]	1.24m 100%	0.86m 69%	0.47m 38%

Contract No:	323197	**Contract Name:**	CO-OP Academy
Borehole	R05		

Depth (m)	Discontinuity Spacing	FI	Rock Description
2.70 to 3.90	Assumed zone of core loss, no recovery)	AZCL	2.70m to 3.90m: Assumed Zone of Core Loss.
3.90 to 4.00	Not Applicable	NA	3.90m to 4.00m: Soft brown CLAY with occasional fragments of coal.
NB: Next section of core labelled in core box as 3.70m to 4.00m			
3.70 to 4.00m	Not applicable	NA	3.70m to 4.00m: Soft and firm grey CLAY, locally tending to extremely weak mudstone. 3.70m to 3.80m: Firm 3.80m to 3.90m: Tensing to extremely weak mudstone 3.90m to 4.00m: Soft.
4.50 to 4.55	Not applicable	NA	4.50m to 4.55m: Very soft grey CLAY (Possible drilling disturbed material).
4.55 to 4.73	0.12, 0.07, FI=2/0.19	11	4.55m to 5.45m: Extremely weak and weak light grey thickly laminated and thinly bedded MUDSTONE with occasional thin beds of siltstone. Discontinuities: Horizontal, closely spaced, planar and undulating, smooth. Weathering: Orange brown penetrative orange brown discolouration, no discernible change of strength. From 4.94m to 5.00m: Non-intact. Non-intact fragments with penetrative orange brown discolouration.
4.73 to 4.86	Non-intact	NI	
4.86 to 4.94	0.08, FI=1/0.08	13	
4.94 to 5.00	Non-intact	NI	
5.00 to 5.22	0.22 FI=1/0.22	5	
5.22 to 5.37	Non-intact	NI	
5.37 to 5.45	0.08, FI=1/0.08	13	
5.45 to 5.67	0.13, 0.90, FI=2/0.22	9	5.45m to 5.74m: Moderately weak light grey, thinly and thickly laminated fine grained SANDSTONE. Discontinuities: Horizontal. Very closely and closely spaced, planar, rough.
5.67 to 5.74	0.03, 0.02, 0.02, FI=3/0.07	>25	

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Contract Name: CO-OP Academy
Contract No. 323197
Core Photographs
R05
2.70m to 5.50m



Notes: Driller's labels in core box indicates: Core run from 2.70m to 4.00m; core run from 3.70m to 4.00m; Core run from 4.50m to 5.50m (actual core recovery 1.74m of core)

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F.A.O.

Final Test Report - 2281769 / 2

Site: Co-Op Academy Smithies Moor

Job Number: 2281769

Originating Client: Turner Townsend

Originating Reference: 323197

Date Sampled: Not Given

Date Scheduled: 17/11/2023

Date Testing Started: 27/11/2023

Date Testing Finished: 21/12/2023

Previous Reports		Amendments	Date Issued
1	Interim		08/12/2023

Amendments:

Authorised By:

Tim Robinson
Quality Supervisor

Report Issue Date: 03/01/2024

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Laboratory Test Report 2281769 / 2

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

Client: Turner Townsend **Page:** 2

Determination of Water Content, Liquid Limit and Plastic Limit and Derivation of Plasticity and Liquidity Index

Borehole / Trial Pit	Depth (m)	Sample	Natural Water Content %	Sample Preparation Natural = Hand picked Sieved = Washed on 425µm			Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Class	One-point PI Only		Description / Remarks
				Natural / Sieved	Passing %	Calc. WC %						Cone Penetration (mm)	Correction Factor	
R01	1.20	D	38.1	Sieved	87	44	64	38	26	0.22	MH			Yellowish Brown slightly sandy, slightly gravelly CLAY
R02	2.00	D	33.8	Natural	93	36	64	31	33	0.16	CH			Grey gravelly CLAY
R03	2.20	UT	38.2	Sieved	77	49	72	32	40	0.43	CV			Grey gravelly CLAY
R04	2.20	D	24.4	Natural	100	24	59	28	31	-0.12	CH			Brown slightly gravelly CLAY
R05	2.20	D	44.3	Sieved	76	58	62	40	22	0.82	MH			Dark Brown slightly gravelly, slightly sandy CLAY
WS01	1.20	D	28.6	Sieved	74	39	62	33	29	0.19	MH	20.2 20.4	0.9952	Brown sandy, gravelly CLAY/SILT
WS02	2.00	D	30.2	Natural	98	31	64	29	35	0.06	CH			Brown slightly gravelly, silty, sandy CLAY
WS03	1.20	D	22.7	Natural	100	23	61	30	31	-0.24	CH			Brown silty, sandy CLAY
WS04	2.00	D	14	Sieved	30	47		29*						Black MUDSTONE
WS05	1.20	D	34.1	Natural	99	34	61	34	27	0.02	MH			Brown sandy CLAY/SILT

Method of Preparation: BS EN ISO 17892 : Part 1 : 2014 : Clause 5.1 Water content test preparation
BS EN ISO 17892 : Part 12 : 2018 : Clause 5.2 Specimen preparation for liquid and plastic limits

Method of Test: BS EN ISO 17892 : Part 1 : 2014 : Clause 5.2 Water content test execution
BS EN ISO 17892 : Part 12 : 2018 : Clause 5.3 Determination of liquid limit by the fall cone method. 80g / 30° Cone
BS EN ISO 17892 : Part 12 : 2018 : Clause 5.5 Determination of plastic limit

General Remarks: All samples tested with increasing water content, unless otherwise stated.
All samples tested to four-point method, unless the extra 'One-point PI Only' data is reported.
*Insufficient sample. Plastic Limit tested only.

Results reported relate only to the samples tested.

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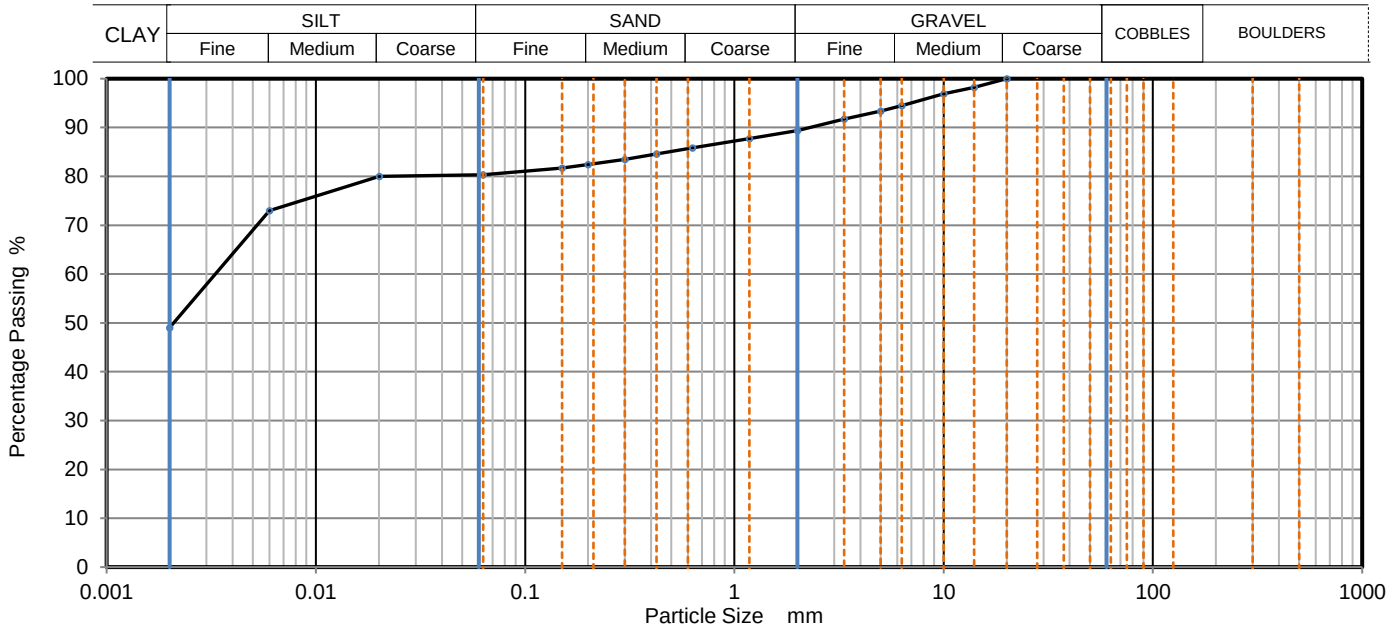
Laboratory Test Report 2281769 / 2

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

Client: Turner Townsend **Page:** 3

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Trial Pit	Depth (m)	Sample	Testing Type	Description
WS02	3.00	D	Wet Sieve + Pipette	Brown slightly sandy, gravelly, silty CLAY



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0201	80
		0.0060	73
		0.0020	49
20	100		
14	98		
10	97		
6.3	95		
5	93		
3.35	92		
2	89	Particle density	(assumed)
1.18	88	2.65	Mg/m3
0.63	86		
0.425	85		
0.3	84		
0.2	82		
0.15	82		
0.063	80		

Dry Mass of sample, g 207

Sample Proportions	% dry mass
Very coarse	0
Gravel	11
Sand	9
Silt	32
Clay	49

Grading Analysis		
D100	mm	20
D60	mm	0.00334
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS17892 unless noted below

Method of Preparation: BS EN 17892:Part4:2016, clause 5.2.2 Preparation of samples for wet sieving test
BS EN 17892:Part4:2016, clause 5.4.2 Preparation of samples for pipette test

Method of Test: BS EN 17892:Part4:2016, clause 5.2.3 Determination of particle size distribution by wet sieving method
BS EN 17892:Part4:2016, clause 5.4.3 Determination of sedimentation by pipette method

UKAS 1404

Result reported relates only to the sample tested.

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Laboratory Test Report	2281769 / 2

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

Client: Turner Townsend **Page:** 4

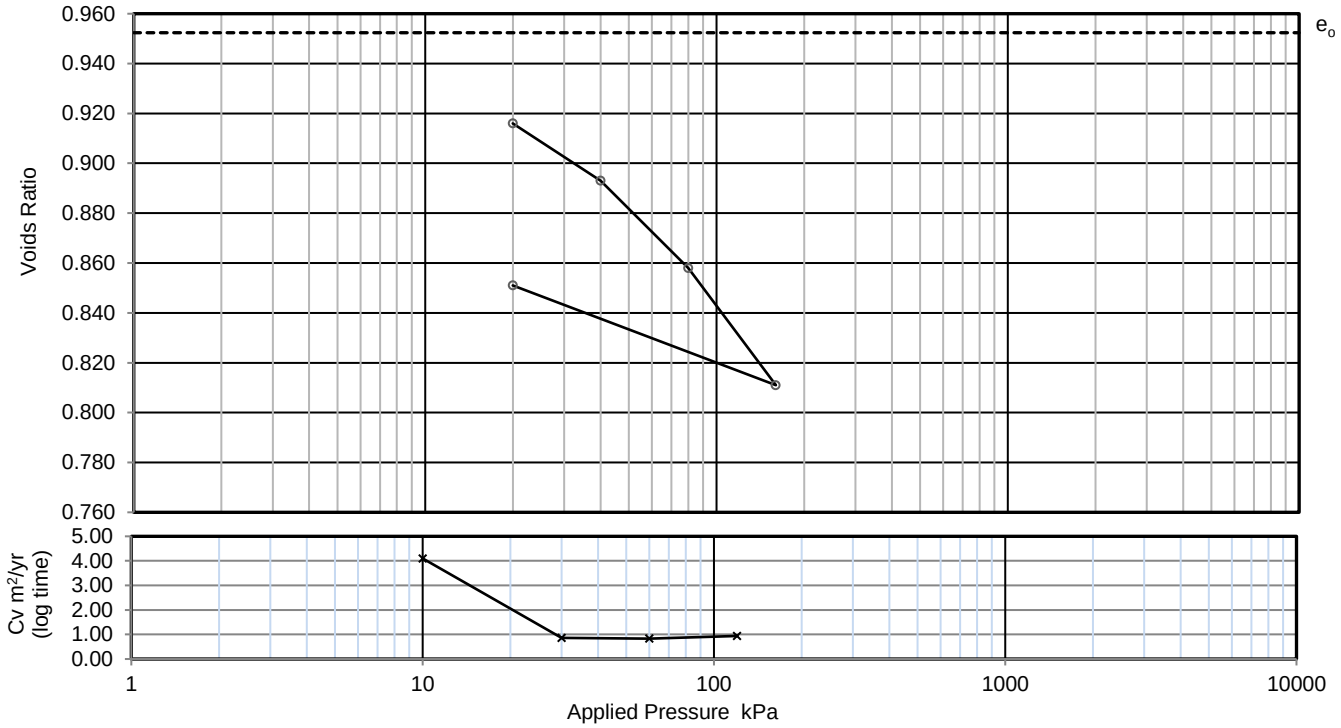
DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Borehole / Trial Pit	Depth (m)	Sample	Description
R03	2.20	UT	Grey gravelly CLAY

Initial Specimen

Length of Sample (mm)	353.42
Depth from top of specimen (mm)	151.84
Condition of Sample:	Undisturbed
Orientation:	Vertical

Diameter (mm)	74.99
Particle density (Mg/m³)	2.65 assumed
Swelling Pressure (kPa)	
Lab Temp. (°C)	21



Applied Pressure kPa	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec	Voids ratio
0.0	-	-	-	-	0.952
20	0.92	4.1	16	0.0011	0.916
40	0.60	0.86	1.7	0.001	0.893
80	0.45	0.83	1.2	0.0015	0.858
160	0.32	0.94	1.9	0.0018	0.811
20	0.16				0.851

	Initial	Final
Height (mm)	19.00	18.01
Moisture Content (%)	39	38
Bulk density (Mg/m³)	1.89	1.98
Dry density (Mg/m³)	1.36	1.43
Voids Ratio	0.952	0.851
Degree of Saturation (%)	109	119

Remarks: GRAVEL REMOVED

Method of Preparation: BS 1377:Part 5:1990, clause 3.3 Preparation of specimen
BS 1377:Part 5:1990, clause 3.4 Preparation and assembly of apparatus

Method of Test: BS 1377:Part 5:1990, clause 3.5 Determination of the one-dimensional consolidation properties

UKAS

Result reported relates only to the sample tested.

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

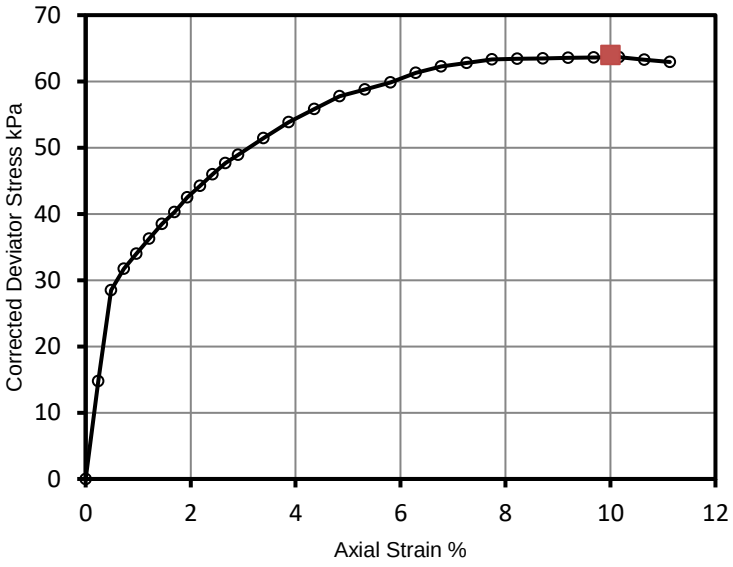
Client: Turner Townsend **Page:** 5

Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen (Definitive Method)

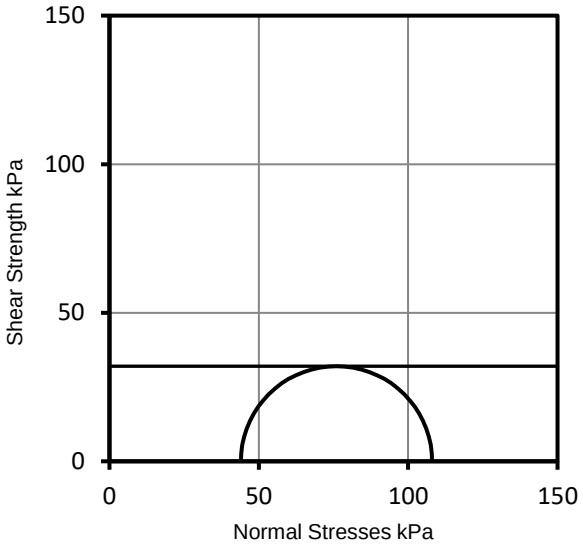
Borehole / Trial Pit	Depth (m)	Sample	Description
R03	2.20	UT	**Grey gravelly CLAY**

Initial Sample	Test Number	1
	Original Length (mm)	353.42
	Depth from Top (mm)	151.84
	Condition	Undisturbed
	Orientation	Vertical
Length (mm)		206.64
Diameter (mm)		103.59
Moisture Content (%)		38
Bulk Density (Mg/m3)		1.71
Dry Density (Mg/m3)		1.24
Membrane Thickness (mm)		0.35
Membrane Type		Latex
Rate of Strain (%/min)		1.9
Test Results	Cell Pressure (kPa)	44
	Axial Strain (%)	10
	Membrane Corr. (kPa)	0.76
	Deviator Stress, (σ1 - σ3)f (kPa)	64
	Undrained Shear Strength, cu = ½(σ1 - σ3)f (kPa)	32
	Mode of Failure	Brittle

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Method of Preparation: BS 1377:PT1:1990:8.3 Preparation of undisturbed samples for testing or
BS 1377:PT1:1990:7.7.5.2 Preparation of disturbed samples for testing

Method of Test: BS 1377:PT2:1990:7.2 Determination of density by linear measurement.
BS 1377:PT7:1990:8.4 Determination of undrained shear strength in triaxial compression without measurement of pore pressure (Definitive method)

Result reported relates only to the sample tested.

IAN FARMER ASSOCIATES

Laboratory Test Report 2281769 / 2

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

Client: Turner Townsend **Page:** 6

UNIAXIAL COMPRESSION TEST ON ROCK - SUMMARY OF RESULTS

Hole No.	Depth m	Sample	Rock Type	Specimen Dimensions2			Bulk Density2	Water Content 1	Uniaxial Compression3				Remarks
				Dia. mm	Length mm	H/D	Mg/m3	%	Condition	Stress Rate MPa/s	Mode of failure	UCS MPa	
R03	5.80	C	Grey SILTSTONE	83.9	76.5	*0.9	2.58	3.7	as received	0.5011	F	17.5	
R04	7.59	C	Grey MUD/SILTSTONE	88.0	107.2	*1.2	2.46	6.2	as received	0.4995	F	1.0	
R05	5.45	C	Grey SILTSTONE	86.2	97.7	*1.1	2.56	3.9	as received	0.4966	F	37.2	

Notes
1 ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS
2 ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density
3 ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials
above notes apply unless annotated otherwise in the remarks

*Denotes length diameter ratio outside ISRM specification

Mode of failure :
S - Single shear MS - multiple shear
AC - Axial cleavage F - Fragmented

Method of Preparation: International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007

Method of Test: International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007

Results reported relate only to the samples tested.

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Laboratory Test Report 2281769 / 2

Site: Co-Op Academy Smithies Moor **Job Number:** 2281769

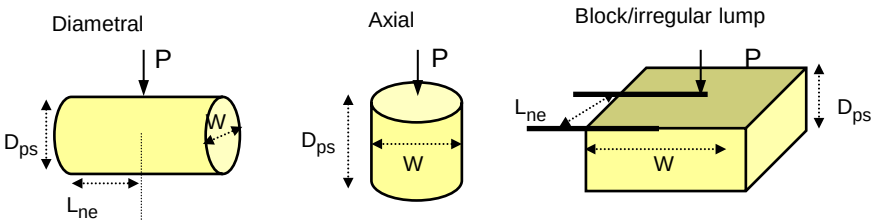
Client: Turner Townsend **Page:** 7

Point Load Strength Index Tests
Summary of Results

Borehole No.	Depth m	Sample	Rock Type and Test condition	Test Type see ISRM: Type (D, A, I, B)	Test Type see ISRM: Direction (PL, PD or U)	Failure Valid (Y/N)	Dimensions: Lne mm	Dimensions: W mm	Dimensions: Dps mm	Dimensions: Dps' mm	Force P kN	Equivalent diameter, De mm	Point Load Strength Index: Is. MPa	Point Load Strength Index: Is(50) MPa	Remarks (including water content if measured)
R02	3.85	C	Grey/Brown MUD/SILTSTONE As received	D	U	YES	37.4	86.2	86.2	85.2	2.3	86.2	0.31	0.39	
R02	3.85	C	Grey/Brown MUD/SILTSTONE As received	I	U	YES	45.0	86.23 86.32	52.8	29.8	3.9	76.2	0.68	0.82	
R03	5.44	C	Grey SILTSTONE As received	D	PL	YES	30.6	85.7	85.7	83.7	2.0	85.7	0.27	0.35	
R03	5.44	C	Grey SILTSTONE As received	A	PD	YES		85.9	46.2	42.2	0.9	71.0	0.19	0.22	

Test Type
D - Diametral, A - Axial, I - Irregular Lump, B - Block
Direction
PL - Parallel to planes of weakness
PD - Perpendicular to planes of weakness
U - Unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P
Size factor, F = (De/50)0.45 for all tests.

Detailed legend for test and dimensions, based on ISRM



Method of Preparation: ISRM 2007 Suggested method for point load strength index (pages 125 - 132)

Method of Test: ISRM 2007 Suggested method for point load strength index (pages 125 - 132)

Results reported relate only to the samples tested.

Final Test Report - 2281769 / 2

Site:	Co-Op Academy Smithies Moor
Job Number:	2281769
Originating Client:	Turner Townsend

All opinions and interpretations contained within this report are outside of our Scope of Accreditation.

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Samples will be retained for 28 days from date of issue of the final test report before being disposed of, unless we receive written instruction to the contrary.

Report End

Report Issue Date: 03/01/2024

Appendix J
SITE PHOTOGRAPHS

PHOTOGRAPHIC LOG

Photo no.	**Date:**
1	26/09/2023

Description:

View of existing school building taken from the Local Authority owned land to the north east showing proposed development Option 1 and MUGA.



Photo No.	**Date:**
2	26/09/2023

Description:

Grassed area within footprint of Option 1, situated between the Local Authority land (left) and MUGA (right).



Photo No.	Date:	
3	26/09/2023	
Description: General view of the Option 1 development area.		

PHOTOGRAPHIC LOG

Photo no.	Date:	
4	23/10/2023	
Description: Set-up at R04.		

Photo No.	Date:	
5	26/10/2023	
Description: Drilling set up at R03.		

Photo No.	Date:	
6	27/10/2023	
Description: Dynamic sample in the upper 2m of R03 showing clay on top of weathered coal.		

Photo No.	Date:	
7	01/11/2023	
Description: Drilling set up at R05.		

Photo No.	Date:	
8	31/10/2023	
Description: Arisings from the hand pit at R05.		

Photo No.	Date:	
9	28/10/2023	
Description: Samples from dynamic sampling between 1.20m and 3m at R02.		

Photo No.	Date:	
10	02/11/2023	
Description: Dynamic sampling returns from 1.20-3m at R01 showing coal fragments from 2.20m.		

Appendix K
SUPPORTING DESK STUDY INFORMATION

1 Coal Authority Consultants mining report

2 Coal Authority Plot

3 Abandonment plan reference GCR153_999999_

4 Abandonment plan reference 10348_999999_2OF2

5 BGS borehole SW1175

6 BGS borehole SW1176

7 BGS borehole SW1177

8 Radon report

COAL AUTHORITY CONSULTANTS MINING REPORT

The Coal Authority

Consultants

Coal Mining Report

Co Op Academy Smithies Moor
Leeds Old Road
Heckmondwike
Kirklees
WF16 9BB

Date of enquiry:	**4 September 2023**
Date enquiry received:	**4 September 2023**
Issue date:	**4 September 2023**
Our reference:	**51003376126001**
Your reference:	**P02140611**



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

RSK ENVIRONMENT LIMITED

Enquiry address

Co Op Academy Smithies Moor
Leeds Old Road
Heckmondwike
Kirklees
WF16 9BB



Approximate position of property

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	MIDDLETON MAIN	Coal	6ZLJ	77	Beneath Property	1.6	East	60	1889
unnamed	MIDDLETON MAIN	Coal	62NV	87	North-West	0.0	East	76	1897
unnamed	MIDDLETON MAIN	Coal	6Z1B	87	North-West	0.0	East	76	1899
unnamed	MIDDLETON MAIN	Coal	6I09	94	West	2.4	North-East	66	1887
unnamed	MIDDLETON MAIN	Coal	62NU	105	North-East	2.9	South	160	1913
unnamed	LOW FENTON	Coal	6ZLL	122	East	1.5	North-East	91	1876
unnamed	WHINMOOR	Coal	62NC	194	North-East	1.6	South-East	69	1931
unnamed	WHINMOOR	Coal	6Z20	202	North-West	1.6	South-East	69	1933
unnamed	WHINMOOR	Coal	6I0D	202	North-West	1.6	South-East	51	1934
unnamed	BLACK BED	Coal	6ZLP	249	South	2.4	South-East	69	1908
unnamed	BLACK BED	Coal	6HFG	264	South-West	0.6	East	69	1908
unnamed	BLACK BED	Coal	6ZLQ	271	Beneath Property	2.4	South-East	69	1914
unnamed	BLACK BED	Coal	62NB	274	Beneath Property	2.4	South-East	66	1914
unnamed	BLACK BED	Coal	6HFF	274	West	2.4	South-East	66	1910
unnamed	BLACK BED	Coal	6Z23	278	North-West	2.4	South-East	66	1910

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

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Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	421424-020	421966 424850		Coal	
Shaft	422424-004	422197 424975		Coal	
Shaft	422424-005	422238 424965		Coal	
Shaft	422424-020	422157 424846		Coal	
Shaft	422424-023	422035 424861		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

FGB425	GCR148	GCR113
FGB433	10348	11942
M387	GCR109	2487

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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COAL AUTHORITY PLOT

The Coal Authority

Summary of findings

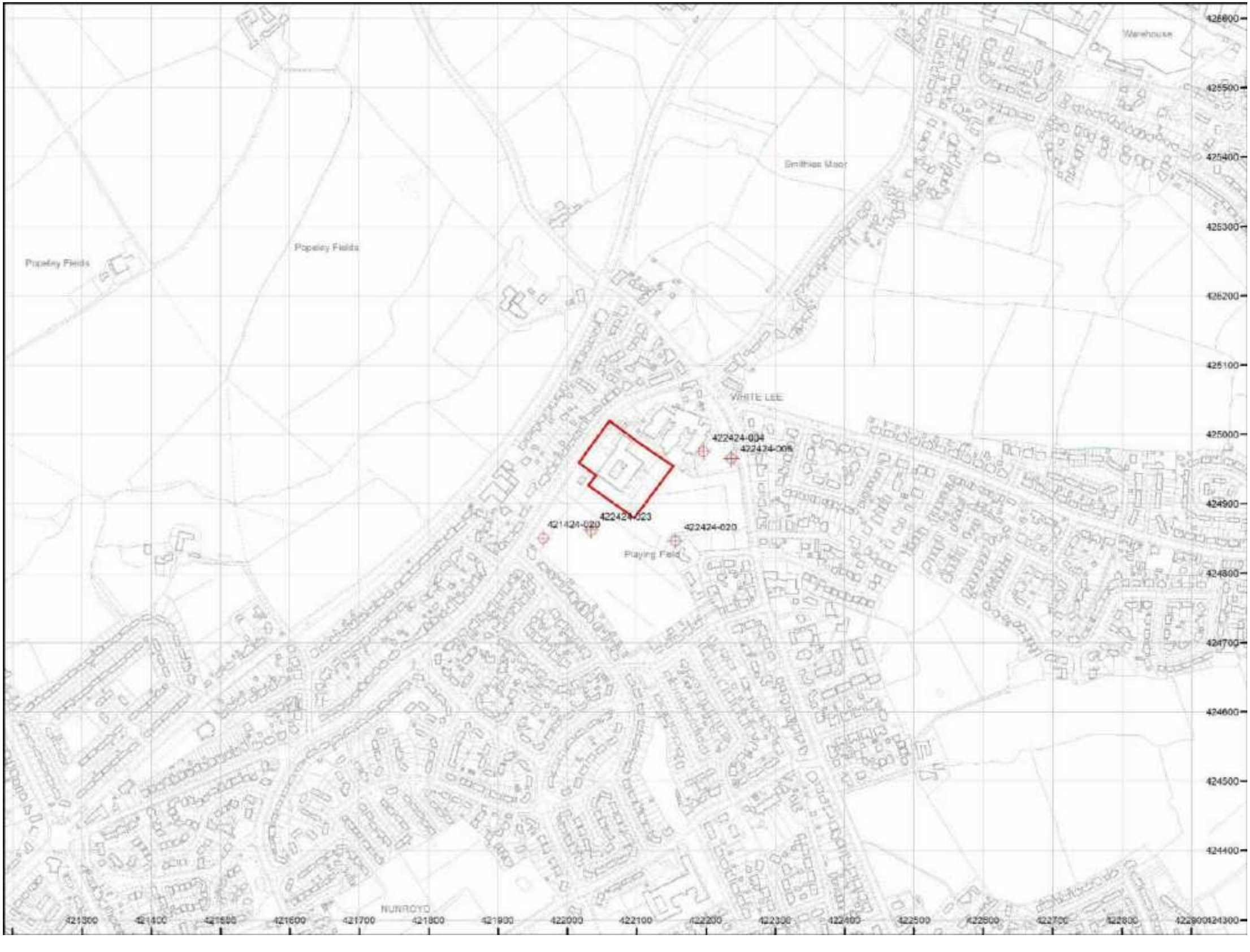
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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Disused mine shaft



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

ABANDONMENT PLAN REFERENCE GCR153_999999_

Joan Royd Colliery

Middleton Main Bed



Scale 2 Chains to an Inch.

Date	Reference	Royalty A.	Royalty R.	Royalty P.	Wayleave A.	Wayleave R.	Wayleave P.
Commencement to Jan. 1887	Coal got and coloured "Pink & Blue"	0 2	1 1	24 23	under 18 over 18		
Dec. 1887	D° "Brown" under 18 / under 20	1 0	3 0	35 3	0	0	28
Dec. 1888	D° "Green"	1	2	25	1	3	5
Dec. 1889	D° "Yellow"	0	3	35	4	2	25
Dec. 1890	D° Pink	0	1	31	3	1	14
Dec. 1891	D° Blue	0	3	17	2	1	30
Dec. 1892	D° Purple						
Dec. 1893	D° Brown						
	Coal got from Commencement to 1st March 1892 under 20' / over 20'	2 6	2 3	24 15	15	1	11
Dec. '92	Coal got and coloured Purple under 20 / over 20	0 0	0 1	2 24	Not Cast		
Dec. 93	Brown under 20 / over 20	0 0	1 2	16 16	6	2	1
Dec. 94	Blue under 20 / over 20	0 0	0 2	14 9	3	1	34
Dec. 95	Green under 20 / over 20	0 0	2 0	36 0	2	0	21
Dec. 96	Yellow under 20 / over 20	0 0	1 0	8 0	4	0	37
Dec. 97	Pink under 20 / over 20	0 0	0 0	22 0	2	0	38

H. S. Childe C.E.
Wakefield 1890

ABANDONMENT PLAN REFERENCE 10348_999999_2OF2

Presented to the MINES DEPT
by Mrs. A Lupton.

Coal leased North of Road ----	about	30 acres
Coal leased South of Road ----		52 "
Coal available to be leased coloured Brown as at A		15 "
---- Pink as at AB		12 "
---- Blue as at C		35 "
---- Red as at DD		64 "
---- Yellow as at EE		70 "
TOTAL		284 "

Scale 2 chains to an inch

Joan Lloyd Colliery
"
Heckmondwike

Copied for Mines Dept
September 1889

West Colliery

Just leased this side
Coper
of Fault

Fault throw to the North 6 yards

Fault throw to the South 18 yds

Coal Measures

Not leased

Not leased

Not leased

Not leased yet

Not leased yet

Not leased yet

Worked out by Hollings

Roche Colliery
Workings

A

B

C

D

E

F

LANE

BGS BOREHOLE SW1175

British Geological Survey

BGS ID: 15630072 : BGS Reference: SE22SW1175
British National Grid (27700) : 422070,424930

TERRESEARCH LIMITED

BOREHOLE NO. 4

Client Name ..... Report No. .....

Date ..... Site Address .....

Address .....

.....

.....

Standing Water Level ..... Datum .....

Water Struck at ..... Method of Boring .....

Ground Level ..... Grid Ref. .....

Remarks

Description of Strata	Thickness	Depth	Cored/Disturbed Samples	Water Struck at
Top soil				
Light brown mottled clay				
Brown clay shale				
Black shale and coal				
Yellow-blue clay				
Grey hard marl				
Grey shale and stone				
Boring discontinued				

Notes: 1 ...

2 Indicates No Samples

D .. Disturbed Sample

W .. Water Sample

C .. Undisturbed Core Sample

S .. Standard Penetration Test

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 15630072 : BGS Reference: SE22SW1175
British National Grid (27700) : 422070,424930

TERRESEARCH LIMITED

BOREHOLE NO. [illegible]

Report No. [illegible]

Site Address [illegible]

Client [illegible]

Address [illegible]

Standing Water Level [illegible]

Water Struck [illegible]

Ground Level [illegible]

Remarks [illegible]

Description of Strata	Thickness	Depth	Detached Samples	[illegible]
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
Totals	[illegible]	[illegible]		

Notes: 1. [illegible]

2. [illegible] Jar Samples

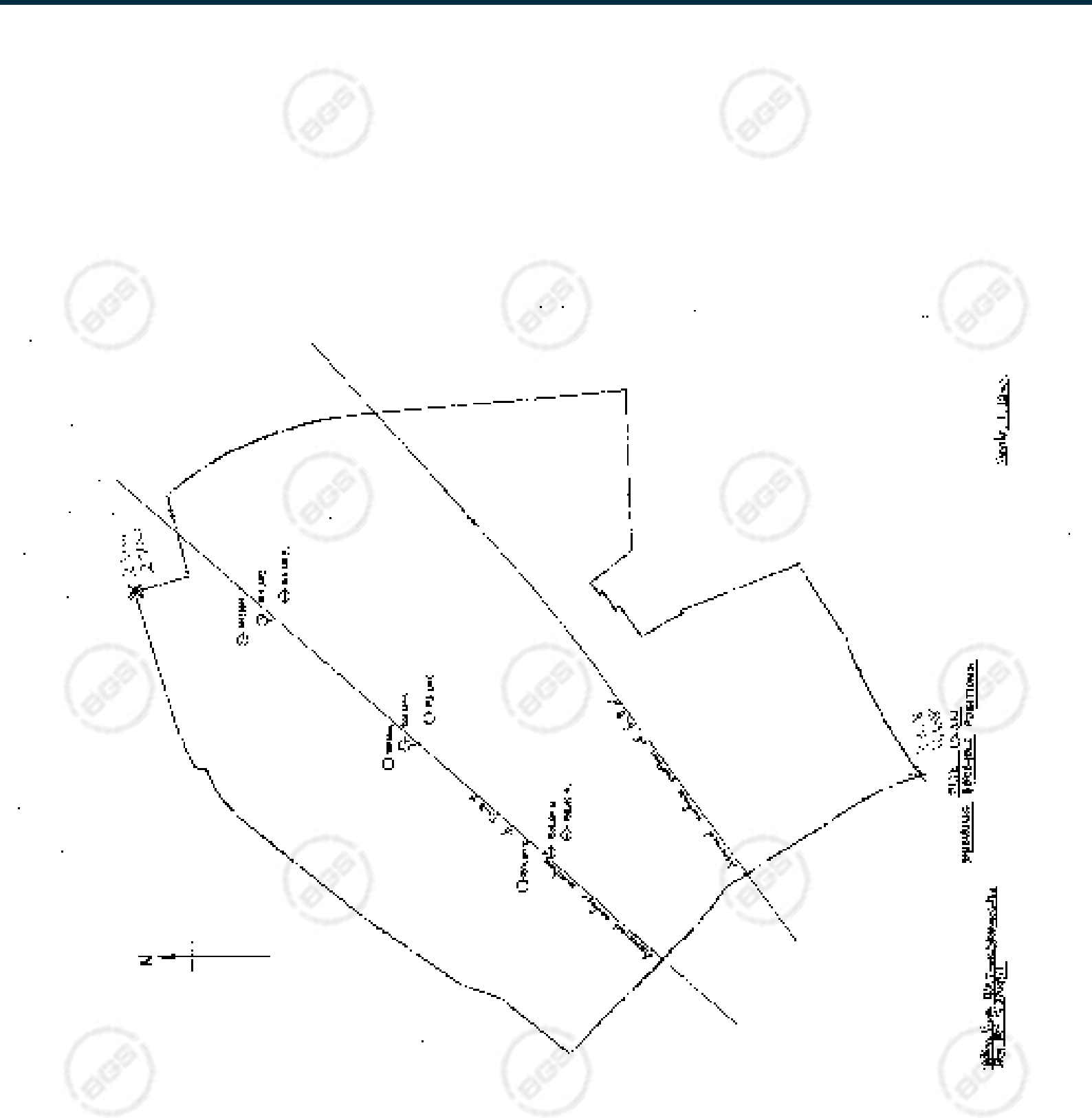
B . Bulk Samples

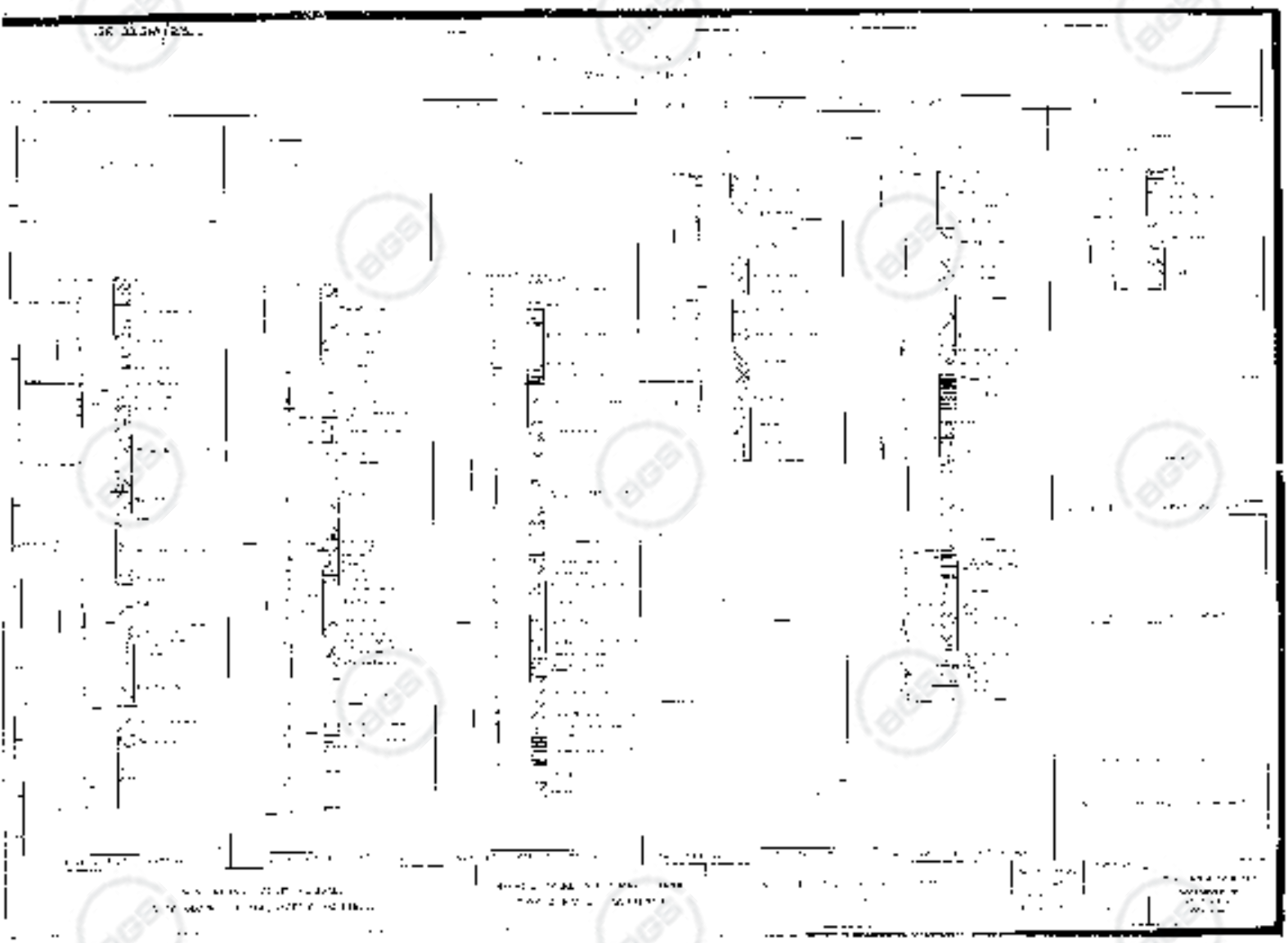
W . Water Samples

C . [illegible]

N . [illegible]

Contact BGS: ngdc@bgs.ac.uk





BGS BOREHOLE SW1176

British Geological Survey

BGS ID: 15630073 : BGS Reference: SE22SW1176
British National Grid (27700) : 422080,424920

TERRESEARCH LIMITED

BOREHOLE NO. 2

Engineer: [illegible]

Client: W. Y. Tech & Associates

Author: Christopher Wood

Eight Street

Report No. S.408/M

Site Address: Leeds Old Road

Shepherdshill

Yorkshire

Standing Water Level: [illegible]

Water Struck: None

Ground Level: 258.5

Datum: [illegible]

Method of Boring: Shell/Auger and Rotary Diamond

Start: 24.2.82 Finish: 26.2.82

Remarks:

Description of Strata	Thickness	Depth	Detailed Samples	U.C.S. (N/mm²)
Shell/Auger				
Top soil	1' 6"	1' 6"	D 0.30m	0' 6"
Staithes Clay	3' 9"	5' 3"	D 1.60m	1' 6"
Dark shale clay	3' 3"	7' 6"	D 2.30m	2' 9"
Dark hard shale	1' 3"	8' 9"	D 2.80m	0' 0"
Soft shale	2' 5"	11' 2"	D 3.50m	1' 6"
Yellow-blue clay	3' 4"	14' 6"	D 4.40m	2' 0"
Grey hard shale	1' 10"	15' 4"	D 4.90m	3' 0"
Rotary Diamond				
Shale	3' 3"	18' 7"		
White rock, soft thin beds	6' 12"	25' 7"		
shale	6' 7"	32' 2"		
Total				

Key: [illegible]

Contact BGS: ngdc@bgs.ac.uk

BGS ID: 15630073 : BGS Reference: SE22SW1176
British National Grid (27700) : 422080,424920

TERRESEARCH LIMITED

BOREHOLE NO. [illegible] (continued)

Report No. [illegible]

Client [illegible] Site Address [illegible]

Address [illegible] [illegible]

Standing Water Level [illegible] Diameter [illegible]

Water Struck [illegible] Method of Boring [illegible]

Ground Level [illegible] Date [illegible]

Remarks

Description of Strata	Thickness	Depth	Diameter/Casing	Core Recovery & RQD
Pebbly [illegible], [illegible] [illegible], [illegible]	[illegible]	[illegible]		
Shale	[illegible]	[illegible]		
White rock	[illegible]	[illegible]		
Fine shale	[illegible]	[illegible]		
Broken shale	[illegible]	[illegible]		
[illegible] shale	[illegible]	[illegible]		
White rock	[illegible]	[illegible]		
Fine shale	[illegible]	[illegible]		
White rock	[illegible]	[illegible]		
Fine shale	[illegible]	[illegible]		
Making rock	[illegible]	[illegible]		
Fractured sandstone	[illegible]	[illegible]		
TOTALS				

Notes: 1. [illegible]

D = Disturbed Sample

W = Water Sample

C = Undisturbed Core Sample. [illegible]

P = [illegible]

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 15630073 : BGS Reference: SE22SW1176
British National Grid (27700) : 422080,424920

TERRESEARCH LIMITED

BOREHOLE NO .5 (sectional)

Contract: Name ..... Report No. .....

Client: ..... Site Address .....

Address .....

.....

.....

Standing Water Level ..... Observer .....

Water Struck ..... Method of Boring .....

Ground Level ..... Date ..... Depth .....

Remarks:

Description of Strata	Thickness	Depth	Material Samples	Undisturbed Core Test
Grey sandy, broken	1' 10"	58' 12"		
Hard grey shale	2' 5"	42' 0"		
Hard sandstone	0' 9"	40' 10"		
Fractured sandstone	1' 5"	44' 0"		
Shale	0' 2"	44' 2"		
Shale rock	0' 3"	44' 5"		
Micro-block shale	0' 3"	44' 8"		
White rock fractured	2' 7"	47' 3"		
Blue-black shale	[illegible]	[illegible]		
Black shale with fossils	2' 10"	55' 2"		
Hard Clay	4'	59' 4"		
Coal	2'	59' 6"		
TOTALS	[illegible]			

NOTES: 1. Operations undertaken in accordance with the B.S. Code of Practice for Site Investigations.

2. All dimensions in Metres.

U = Undisturbed Sample.

D = Disturbed Sample.

W = Water Sample.

B = Bulk Sample of Clay or Granular Material for Analysis.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 15630073 : BGS Reference: SE22SW1176
British National Grid (27700) : 422080,424920

TERRASEARCH LIMITED

BOREHOLE NO. 5 Penistone

Contract Name ... [redacted] Report No. [redacted]

Date ... Site Address

Address ...

Standing Water Level ... Diameter ...

Water Struck ... Method of Boring ...

Completed ... Start ... Finish ...

Remarks:

Description of Strata	Thickness	Depth	Core Recovery %
[illegible]	[illegible]	[illegible]	
Coal	[illegible]	[illegible]	
Fireclay	[illegible]	[illegible]	
Shale	[illegible]	[illegible]	
TOTALS	[illegible]	[illegible]	

Notes: ... Description and depths by geologist with B.G.S. Field Exploration Code of Practice (1966) (See Introduction).

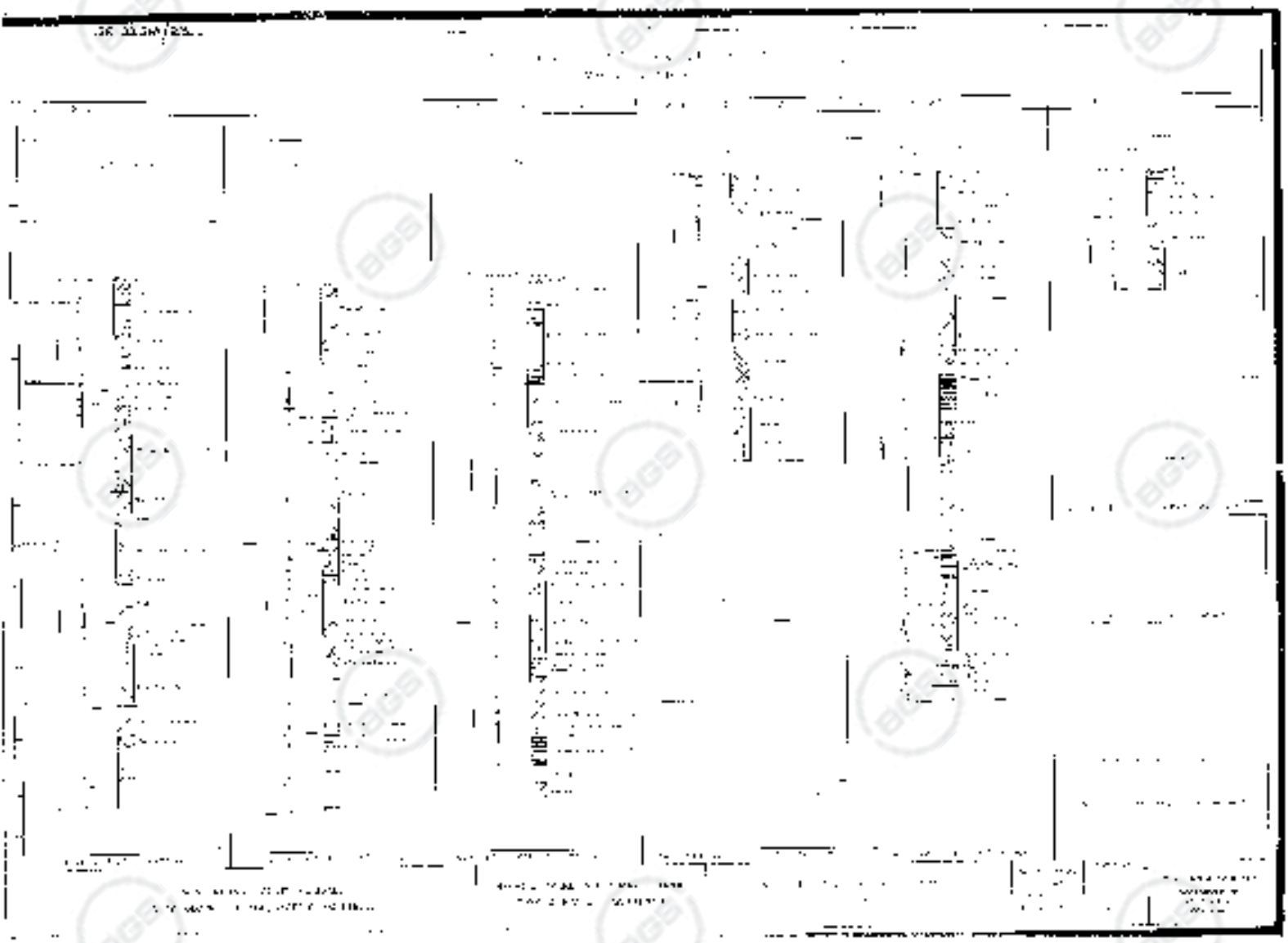
S ... Split Sample.

W ... Water Sample.

C ... Undisturbed Core Sample. These are normally 4 in. diam. and 15 in. long. Depths shown are top of sample.

P ... Sample of Strata as penetrated with Standard Penetration Test.

Contact BGS: ngdc@bgs.ac.uk



BGS BOREHOLE SW1177

British Geological Survey

BGS ID: 15630074 : BGS Reference: SE22SW1177
British National Grid (27700) : 422100,424910

TERRESEARCH LIMITED

BOREHOLE NO. 6

Owner Name [illegible] Report No. [illegible]/82

Client R. T. Zinck & Partners Site Address Lands Old Road

Address Gelderd Road Castleford

Leeds Yorkshire

Gelderd Estate

Starting Water Level ... Diameter 6"

Water Struck None Method of Boring Shell & Auger and Rotary Diamond

Ground Level 41.56 Started 20.5.82 Finished 15.6.82

Remarks:

Description of Strata	Thickness	Depth	Associated Samples	% Core and R.Q.D. Value
Made Ground				
Top soil	0' 8"	0' 8"	1.B@0.5'-0' 8"	
Brown mottled clay	5' 1"	5' 9"	2.B@4.5'-5' 0"	
Blue mottled clay	1' 3"	6' 12"	3.B@5.5'-6' 0"	
Sand shale layers and clay	6' 2"	12' 2"	4.B@9.5'-10' 0"	
Black layer glass	0' 3"	12' 5"	5.B@11.5'-12' 0"	
Solid Strata				
Sandstone, soft, fissile	2' 4"	14' 9"		
Soft to firm fissile, shale, sands	4' 10"	19' 7"		
Hard shale, interlaminated	3' 0"	22' 7"		
Firm to hard grey shale with dark soft clayey bands	16' 9"	39' 4"		
Sandstone (white rock) typical bands	1' 7"	40' 11"		

Notes: 1. Descriptions are given in accordance with BS 5930:1981 "Site Investigations".

2. Samples

B .. Bulk Sample

U .. Undisturbed Core Sample

C .. Cuttings

N .. Number of Standard Penetration Tests

Contact BGS: ngdc@bgs.ac.uk

BGS British Geological Survey

BGS ID: 15630074 : BGS Reference: SE22SW1177
British National Grid (27700) : 422100,424910

TERRISEARCH LIMITED

BOREHOLE NO. 6 (continued)

Client: Name [illegible]
Client: T. W. Ward & Associates
Address: Coddington Grove, Doyle Street, [illegible]

Report No. [illegible]
Site Address: [illegible]

Standing Water Level: [illegible]
Water struck: [illegible]
Ground Level: [illegible]

Diameter: [illegible]
Method of Boring: Diamond
Started: [illegible] Finished: [illegible]

Remarks:

Description of Strata	Thickness	Depth	Undisturbed Samples	In Situ Tests
Firm clay shale	1' 0"	57' 6"		
Hard mudstone (white rock)	1' 3"	58' 9"		
Firm blue shale	2' 9"	61' 6"		
Firm to hard blue shale	2' 0"	63' 6"		
Hard fractured mudstone (white rock)	3' 0"	66' 6"		
Firm blue-black shale	0' 6"	67' 0"		
Hard fractured mudstone (white rock)	2' 3"	69' 3"		
Hard blue-black shale	4' 5"	73' 8"		
Blue to buff fissile shale, interbedded	1' 0"	74' 8"		
Mudstone [illegible]	1' 10"	76' 6"		
Black shale	0' 6"	77' 0"		
Old workings (coal shale no cavity)	5' 0"	82' 0"		
TOTALS				

Notes: 1. Descriptions are given in accordance with B.S. Civil Engineering Code of Practice C.P.2001 "Site Investigations".
D .. Disturbed Sample.
W .. Water Sample.
U .. Undisturbed Core Sample. Thin wall sampler, 4in. diam. and 3ft. long. Depth recovered by [illegible]
V .. Undisturbed Core Sample, recovered with Standard Penetration Test.

Contact BGS: ngdc@bgs.ac.uk

TERRESEARCH LIMITED

BOREHOLE NO. 6 (continued)

Contract No. [redacted] Report No. 6/08/18

Client [redacted] Site Address Brooks Old Road

Engineer [redacted] Date [redacted]

Standing Water Level Nil Engineer

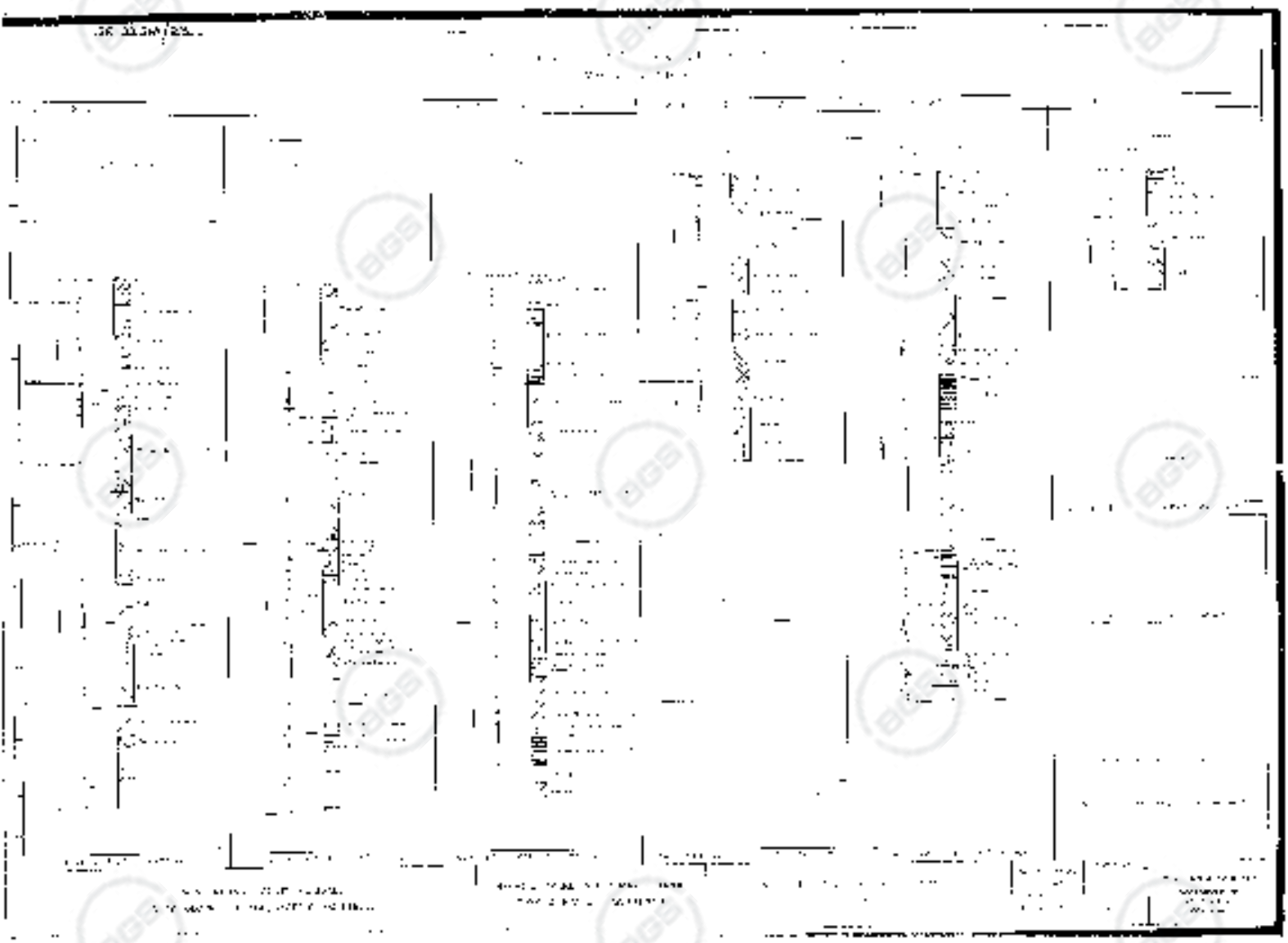
Water Struck Method of Boring Rotary Diamond

Ground Level Size [illegible]

Remarks:

Description of Strata	Thickness	Depth	Diameter of Bore	Time Taken per Foot
Fire clay	8' 0"	65' 0"		
Quelston	8' 0"	65' 0"		
TOTALS	65' 0"	65' 0"		

Notes: 1. Boring carried out in accordance with the B.S. Civil Engineering Code of Practice [illegible]
2. [illegible]
3. Water Struck.
4. Water Standing.
5. Undisturbed Core Samples. [illegible]
6. Disturbed Samples.



GeoReports

British Geological Survey

Ang Wallis
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Chester Road
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WA6 0AR

Radon Report

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

Report Id: *BGS_336671/51491*

Client reference: 323197

RADON REPORT

Search location



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Search location indicated in red

This report describes a site located at National Grid Reference 422109, 424920. Note that for sites of irregular shape, this point may lie outside the site boundary. Where the client has submitted a site plan the assessment will be based on the area given.

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Radon Report: UK

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

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

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

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

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2023 edition), which also provides guidance on what to do if the* result *indicates that protective measures are required.*

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2023 edition) Radon: Guidance on protective measures for new buildings?

NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

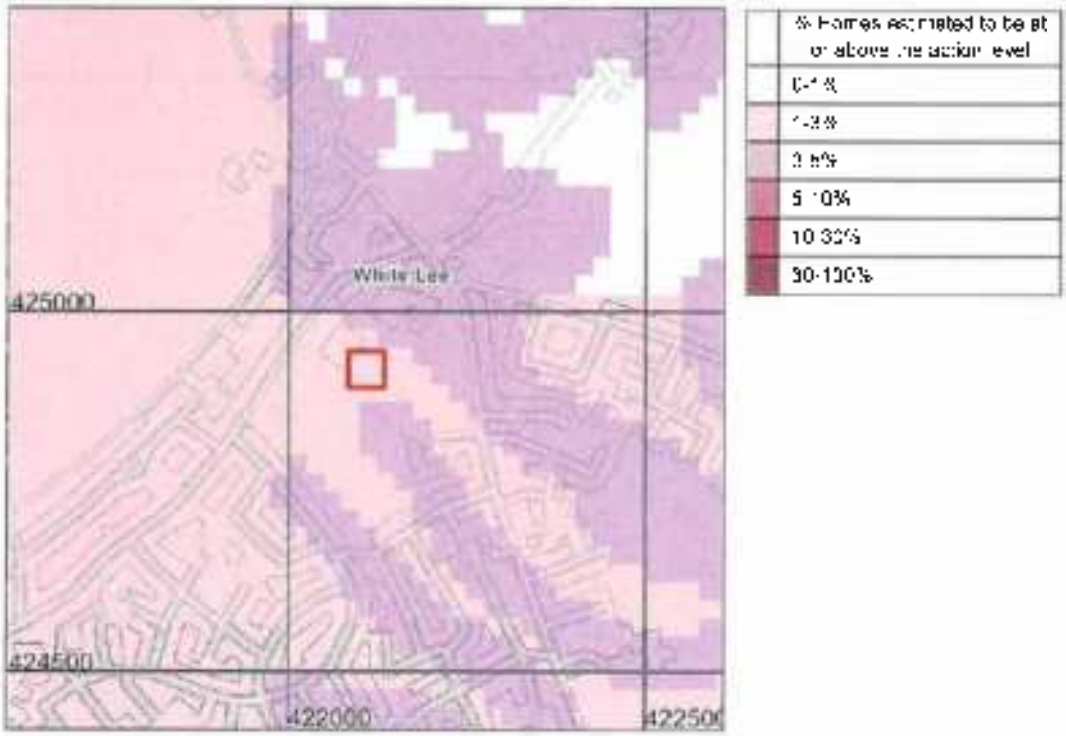
More details of the protective measures required are available in *BR211 Radon: Guidance on protective measures for new buildings (2023 Edition).*

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

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

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Radon Affected Area



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Search area indicated in red

Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? YES

Additional Information

THE PROPERTY IS IN A RADON AFFECTED AREAS WHERE 1 TO 3% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL.

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

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

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

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

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

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

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

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What is radon?

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

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

Radon in workplaces

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

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Report issued by
BGS Enquiry Service

Appendix L
GENERIC ASSESSMENT CRITERIA

Generic assessment criteria for human health: primary school

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009[1]. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009[2]. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)[3,4], as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)[5] used in the generation of SGVs.

C4SL were initially published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010[3]). Further C4SL were published in 2021 for vinyl chloride, tetrachloroethene (PCE) and trichloroethene (TCE). Where a C4SL has been published, the RSK GAC duplicates the C4SL using all input parameters within the SP1010 final project report[3] and associated chemical specific reports[6], and adopts them as GAC for these substances for the published land uses. Due to the use of decimal places rather than significant figures applied to the Contaminated Land Exposure Assessment (CLEA) tool outputs, the GAC presented may be marginally differently to the C4SL values, however any differences between the values are minimal and would not equate to an unacceptable risk. The current RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015[7], where a C4SL has not been published.

GAC for a primary school land use have not been published previously, and RSK has used available reference documents, experience and professional judgement to provide suitable exposure assumptions to characterise this land use. RSK has used the toxicology published within the SP1010 final project report[3] and associated appendices[6], where available, or the toxicology published by LQM/CIEH in 2015[7] or by the USEPA[22].

This GAC appendix therefore presents RSK GAC that may be used in the GQRA stage for a school and will be overly conservative for use at secondary schools.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the CLEA tool v1.071 and supporting EA guidance[5,8,9]. As the SAC are calculated using generic assumptions with respect to a particular scenario, they will be referred to as generic assessment criteria (GAC).

Conceptual model

This scenario considers the risk to a female child from the age of 3 to 11 years, which is the typical age range within a UK primary school with a preschool attached. The number of primary

schools in each local authority with a preschool varies, so this element has been included for the assessment criteria to be suitably protective of the variety of situations to which these GAC may be used. The consumption of home-grown produce has not been included in this scenario, as the amount of produce grown by a school is typically very small and often in raised planters. The consumption of any produce is usually overseen by a teacher or parent and therefore likely to have been thoroughly washed. The pathways considered for the production of SAC in the primary school are

- direct soil and dust ingestion
- dermal contact with soil and indoor dust
- inhalation of indoor and outdoor dust and vapours.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium[1], the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh}, are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

The CLEA model only considers the risk of volatile compounds from the soils and not groundwater. Groundwater assessment criteria (GrAC) have not been produced by RSK for this land use scenario, so site-specific assessment criteria should be derived if required.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase[9]. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached[9]. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required[9].

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible, as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, vapour exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA

handbook[9], this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook[9], which explains how to calculate an effective assessment criterion manually.

SR3[5] states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical correction factor of 10 into the CLEA chemical database for all petroleum hydrocarbons (including BTEX, trimethylbenzenes and total petroleum hydrocarbons (TPH) fraction) and the polycyclic aromatic hydrocarbons (PAH), naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7[10], the EA TOX[1] reports, the C4SL SP1010 project report and associated chemical specific reports[3,6], the 2015 LQM/CIEH report[7] or the USEPA IRIS database[22]. Where a LLTC[3,6] has been published for a substance, RSK has used these input parameters to derive the RSK GAC. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene, barium and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report[11].

For TPH, aromatic hydrocarbons C_5–C_8 were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

The building type has been based on best practice guidance for the construction of new primary schools as set out in 'Building Bulletin 99: Briefing Framework for Primary School Projects'[12], published by the Department for Education and Skills. The site area has been calculated for a single-storey building with 240 pupils, which equates to a total net site area of 12,100m^2 and a building footprint of 1535m^2. A total area of 7840m^2 has been classed as soft landscaping and accounts for badly worn sports pitches and areas of natural habitat. The figure is considered highly conservative, as most of this area is likely to be covered by grass, which is classed as not available for dust generation in the CLEA model. The building parameters are given in Table 1.

The parameters for a sandy loam soil type were used in line with SR3[5]. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this parameter, RSK has produced SAC for an SOM of 1%, 2.5% and 6%.

The SAC were produced using the input parameters in Tables 1 to 5. The final selected GAC are presented by pathway in Table 6 and the combined GAC in Table 7.

Figure 1: Conceptual model for primary school scenario

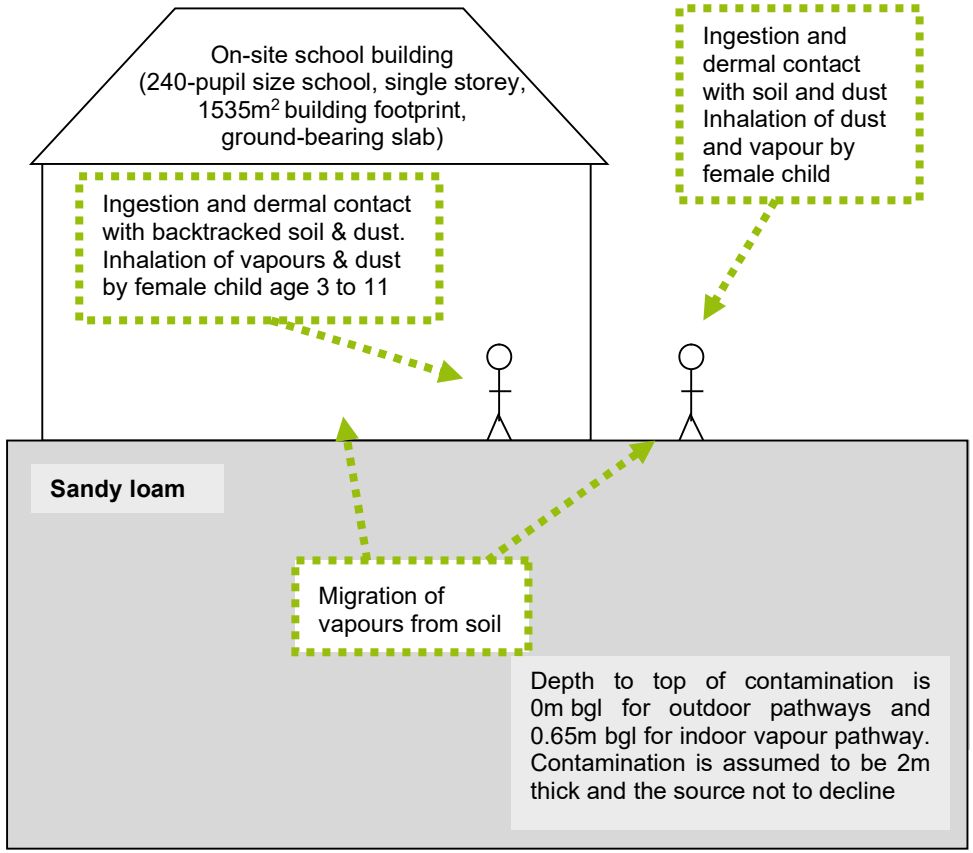


Table 1: Exposure assessment parameters for primary school scenario – inputs for CLEA model

Parameter	Value	Justification
Land use	Primary school – RSK-derived land use	Chosen land use. It has been assumed that the amount of produce grown and consumed by the pupils is negligible. The assumed primary school characteristics are presented in Table 2.
Receptor	Female child age 3 to 11	Typical age range of primary schools with preschool. A school with a preschool was chosen in order to be conservative.
Building	Primary school	Building type varies significantly depending on age of school and location. Therefore, typical building type scenario was created for a 240-pupil size school, using guidance set out in 'Building Bulletin 99: Briefing Framework for Primary School Projects'[13]. It has been assumed that the building is single storey with a ground-bearing floor slab.
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, from Table 3.1, report SC050021/SR3)[5]
Start AC (age class)	4	Range of age classes corresponding to key generic assumption that the critical receptor is a young female child aged 3 to 11
End AC (age class)	11	
SOM (%)	6	Representative of sandy loamy soil according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents'[12]
	1	To provide SAC for sites where SOM <6% as often observed by RSK
	2.5	
pH	7	Model default

Table 2: Primary school characteristics

Parameter	Unit	Value	Justification
Number of pupils	No	240	One-form entry nursery, infant and junior school. Eight classes of thirty pupils. Considered reasonable assumption
Number of storeys	No	1	Assumed primary school is one storey
Building area			
Likely gross building area	m^2	1420	Calculated using the formula in BB99[12], in Appendix 4
Additional area for nursery	m^2	115	Page 60 BB99[12], basic assumption for additional nursery space
Total	m^2	1535	
Site area			
Pitches (assumed to be soft cover)	m^2	4800	Calculated using the formula in BB99[12], in Appendix 4
Soft play (informal and social)	m^2	1400	Calculated using the formula in BB99[12], in Appendix 4
Games courts (hard surfaced)	m^2	1080	Calculated using the formula in BB99[12], in Appendix 4
Hard play (informal and social)	m^2	760	Calculated using the formula in BB99[12], in Appendix 4
Habitat (soft landscaped areas)	m^2	440	Calculated using the formula in BB99[12], in Appendix 4
Float (any of the above assumed to be soft)	m^2	1200	Calculated using the formula in BB99[12], in Appendix 4
Total net[A] site area	m^2	9680	Calculated using the formula in BB99[12], in Appendix 4
Likely minimum gross[B] site area from (110% of net)	m^2	10,840	Page 53 of BB99[12]
Likely maximum site area to (125% of net)	m^2	12,100	Page 53 of BB99[12]
Area of soft cover	m^2	7840	Calculated using the formula in BB99[12], in Appendix 4
Fraction of hard cover to soft cover lower limit	fraction	0.27	Calculated from gross area at 110% of net. This includes grass, landscaped areas, pitches and vegetable plots.
Fraction hard cover to soft cover upper limit	fraction	0.35	Calculated from gross area at 125% of net. This includes grass, landscaped areas, pitches and vegetable plots.
Building footprint	m^2	1535	Calculated using the formula in Appendix 4 of Building Bulletin 99[12],

Note: BB99[12] stipulates best practice for new builds.

[A] Net site area is the total of five categories of space (sports pitches, games courts (hard surfaces), soft play (informal and social), hard play, habitat areas), as defined in BB99[12]

[B] Gross (or total) site area is the net site area and the buildings and access area (footprint of buildings, refuse/deliveries area, entrance paths/roads, car parking and drop-off, bicycle storage), as defined in BB99[12]

Table 3: Primary school – land use data for CLEA model

Parameter	Unit	Age class							
		4	5	6	7	8	9	10	11
EF (soil and dust ingestion)	day yr^{-1}	190	195	195	195	195	195	195	195
EF (consumption of home-grown produce)	day yr^{-1}	0	0	0	0	0	0	0	0
EF (skin contact, indoor)	day yr^{-1}	190	195	195	195	195	195	195	195
EF (skin contact, outdoor)	day yr^{-1}	190	195	195	195	195	195	195	195
EF (inhalation of dust and vapour, indoor)	day yr^{-1}	190	195	195	195	195	195	195	195
EF (inhalation of dust and vapour, outdoor)	day yr^{-1}	190	195	195	195	195	195	195	195
Justification	Based on 38 weeks for preschool children who are entitled to 15 hours of free nursery education for 38 weeks of the year[14], and typical number of school days for primary school (Department of Education)								
Occupancy period (indoor)	hr day^{-1}	2.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Occupancy period (outdoor)	hr day^{-1}	0.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Justification	Age class 4: preschool is based on statutory 15 hours a week for 38 weeks. A 30-min. outdoor break has been included. Age class 5–11 primary school is based on typical school day (6hr 25min) with 1hr 30min break[15] outdoors; 2hr of exercise per week (voluntary target set by Department for Education[15]), 1hr of which is indoor to account for inclement weather and forms part of the school day; and 1hr of extracurricular (additional to the school day) outdoor activity a week outside of school hours. The occupancy period does not include for daily use of breakfast or after-school clubs, as this is not a statutory requirement and not all schools provide such care.								
Soil to skin adherence factor (indoor)	mg cm^{-2} day^{-1}	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Soil to skin adherence factor (outdoor)	mg cm^{-2} day^{-1}	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Justification	Indoor: Table 8.1, SR3[5] and Table 4.1 (lifetime), SR4[9]; Outdoor: Table 3.5, SP1010[3]								
Soil and dust ingestion rate	g day^{-1}	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Justification	Table 6.2, SR3[5] and Table 4.1 (lifetime), SR4[9]								
Note: For **cadmium**, the exposure assessment for the primary school land use is based on estimates representative of lifetime exposure to AC18. This is because the TDI_{oral} and TDI_{inh} are based on considerations of the kidney burden accumulated over 50 years. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer time period. See the Environment Agency Science Report SC050021/TOX 3[1] and Science Report SC050021/Cadmium SGV[1].									

Table 4: Primary school – receptor data for CLEA model

Parameter	Unit	Age class							
		4	5	6	7	8	9	10	11
Body weight	kg	15.1	16.9	19.7	22.1	25.3	27.5	31.4	35.7
Body height	m	0.9	1.0	1.1	1.2	1.2	1.3	1.3	1.4
Justification	Table 4.6, SR3[3]. See Table 4.8 SR3[3] for AC12 to 18								
Inhalation rate	m^3 day^{-1}	22.08	24.33	24.33	25.96	25.96	25.96	25.96	25.96
Justification	USEPA Exposure Factor Handbook[16] Table 6.2, short-term mean exposure values (males and female combined). Mean inhalation rates calculated for the occupancy period and factored up to assume an hourly rate for a 24hr period. Age class 5–11: ~1.5hr high-intensity activity (i.e. football, running), ~5 hours light intensity (i.e. time in classroom, eating). Age class 4: 0.5hr high intensity, 2.5hr light intensity.								
Max exposed skin fraction (indoor)	m^2 m^{-2}	0.35	0.35	0.33	0.22	0.22	0.30	0.30	0.30
Max exposed skin fraction (outdoor)	m^2 m^{-2}	0.28	0.28	0.26	0.15	0.15	0.15	0.15	0.14
Justification	Data in Table 4.8, SR3[5]. See Table 4.8 of SR(3)[5] for AC12 to 18.								

Parameter	Unit	Age class						
		12	13	14	15	16	17	18
Inhalation rate (AC12 to 18)	m^3 day^{-1}	30.47	30.47	30.47	30.47	30.47	30.06	28.81
Justification	For use when modeling lifetime exposure (cadmium) to AC18. USEPA Exposure Factor Handbook[16] Table 6.2, short-term mean exposure values (males and female combined). Mean inhalation rates calculated for the occupancy period and factored up to assume an hourly rate for a 24hr period. Age class 5–11: ~1.5hr high-intensity activity (i.e. football, running), ~5 hours light intensity (i.e. time in classroom, eating). Age class 4: 0.5hr high intensity, 2.5hr light intensity.							

Table 5: Primary school – default soil and building inputs for CLEA model

Parameter	Unit	Value	Justification
Soil properties for sandy loam			
Porosity, total	cm^3 cm^{-3}	0.53	Default soil type is sandy loam, Section 4.3.1, SR3[5] Parameters for sandy loam from Table 4.4, SR3[5]
Porosity, air filled	cm^3 cm^{-3}	0.20	
Porosity, water filled	cm^3 cm^{-3}	0.33	
Residual soil water content	cm^3 cm^{-3}	0.12	
Saturated hydraulic conductivity	cm s^{-1}	3.56E-03	

Parameter	Unit	Value	Justification
van Genuchten shape parameter (m)	-	3.20E-01	
Bulk density	g cm^{-3}	1.21	
Threshold value of wind speed at 10m	m s^{-1}	7.20	Default value taken from Section 9.2.2, SR3[5]
Empirical function (F_x) for dust model	-	1.22	Value taken from Section 9.2.2, SR3[5]
Ambient soil temperature	K	283	Annual average soil temperature representative of UK surface soils. Section 4.3.1, SR3[5]
Air dispersion model			
Mean annual wind speed (10m)	m s^{-1}	5.00	Default value taken from Section 9.2.2, SR3[5]
Air dispersion factor at height of 0.8m	g m^{-2} s^{-1} per kg m^{-3}	68	Values for a 2ha site, appropriate to land use in Newcastle (most representative city for UK) (from Table 9.1, SR3)[5]
Air dispersion factor at height of 1.6m	g m^{-2} s^{-1} per kg m^{-3}	120	
Fraction of site with hard or vegetative cover	m^2 m^{-2}	0.675	Upper limit calculated from BB99[12]. It has been assumed that 50% of the soft cover is vegetative cover such as grass. The remaining 50% of soft cover is assumed to be disturbed in some way, either by gardening or sports/ playtime activities.
Building properties for primary school with ground-bearing floor slab			
Building footprint	m^2	1535	Calculated from Building Bulletin 99[12]. See Table 2.
Living space air exchange rate	hr^{-1}	2	The Building Regulations 2000, Approved Document F[17] states that ventilation should be designed in accordance with 'Building Bulletin 101: Ventilation for School Buildings'[18]. The School Premises Regulations 1999[19] apply to existing buildings and state that all occupied areas in a school building shall have controllable ventilation at a minimum rate of three litres of fresh air per second for each of the maximum number of persons the area will accommodate. BB101[18] states that in a special school, the minimum air exchange rate should be 2.5 air changes per hour. CIBSE Guide B2:2001[20], states that for schoolrooms, there should be a minimum of 4–6 air changes per hour. A conservative rate of 2 has been used.
Living space height (above ground)	m	2.4	Minimum height requirement for a school hall used for physical education is 3.5m (BB99[12]). It is assumed that the school is single storey. A minimum classroom height of 2.4m has been assumed in order to be conservative.
Living space height (below ground)	m	0.0	Assumed no basement

Parameter	Unit	Value	Justification
Pressure difference (soil to enclosed space)	Pa	5.2	From Table 4.21, SR3[5]. Based on the negative pressure of an office of similar dimensions and construction, most conservative value assumed.
Foundation thickness	m	0.15	Assumed reasonable
Floor crack area	cm^2	4940	From Table 4.21, SR3[5]. Based on an office of similar construction, scaled up to the size of the generic school building (office post 1970 x 2.5).
Dust loading factor	$\mu g\ m^{-3}$	100	Default value for a commercial property taken from Section 9.3, SR3[5] in absence of school specific data found during brief literature review.
Vapour model			
Default soil gas ingress rate	$cm^3\ s^{-1}$	150	Generic flow rate for commercial property, Section 10.3, SR3[5], based on a worst-case building type and therefore considered suitable for a primary school building. The value also lies at the top end of soil ingress rate observed by Hers et al[21].
Depth to top of source (beneath building)	cm	65	Section 3.2.6, SR3[5] states source is 50cm below building or 65cm below ground surface
Depth to top of source (no building)	cm	0	Section 10.2, SR3[5] assumes impact from 0m to 1m for outdoor inhalation pathway
Thickness of contaminant layer	cm	200	Model default for indoor air, Section 4.9, SR4[9]
Time average period for surface emissions	years	8	Time period of a 3–11 year old, Box 3.5, SR3[5]
User-defined effective air permeability	cm^2	3.05E-08	Calculated for sandy loam using equations in Appendix 1, SR3[5]

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PRIMARY SCHOOL

Table 6

Human Health Generic Assessment Criteria by Pathway for Primary School

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	1.23E+02	1.06E+03	NR	NR	1.23E+02	1.06E+03	NR	NR	1.23E+02	1.06E+03	NR	NR
Barium	(b)	4.20E+03	NR	NR	NR	4.20E+03	NR	NR	NR	4.20E+03	NR	NR	NR
Beryllium		6.32E+02	3.48E+00	NR	NR	6.32E+02	3.48E+00	NR	NR	6.32E+02	3.48E+00	NR	NR
Boron		3.37E+04	1.05E+07	NR	NR	3.37E+04	1.05E+07	NR	NR	3.37E+04	1.05E+07	NR	NR
Cadmium	(a)	5.10E+02	6.40E+02	3.00E+02	NR	5.10E+02	6.40E+02	3.00E+02	NR	5.10E+02	6.40E+02	3.00E+02	NR
Chromium (III) - trivalent	(c)	6.23E+04	2.56E+03	NR	NR	6.23E+04	2.56E+03	NR	NR	6.23E+04	2.56E+03	NR	NR
Chromium (VI) - hexavalent	(a,d)	1.84E+02	4.15E+01	NR	NR	1.84E+02	4.15E+01	NR	NR	1.84E+02	4.15E+01	NR	NR
Copper		3.37E+04	3.13E+04	1.90E+04	NR	3.37E+04	3.13E+04	1.90E+04	NR	3.37E+04	3.13E+04	1.90E+04	NR
Lead	(a)	9.79E+02	NR	NR	NR	9.79E+02	NR	NR	NR	9.79E+02	NR	NR	NR
Elemental Mercury (Hg^0)	(d)	NR	5.68E+00	NR	4.31E+00	NR	1.03E+01	NR	1.07E+01	NR	1.53E+01	NR	2.58E+01
Inorganic Mercury (Hg^{2+})		2.04E+02	7.32E+03	1.98E+02	NR	2.04E+02	7.32E+03	1.98E+02	NR	2.04E+02	7.32E+03	1.98E+02	NR
Methyl Mercury (Hg^{4+})		6.24E+01	3.23E+02	5.23E+01	7.33E+01	6.24E+01	4.69E+02	5.51E+01	1.42E+02	6.24E+01	7.05E+02	5.74E+01	3.04E+02
Nickel	(d)	5.85E+02	3.66E+02	NR	NR	5.85E+02	3.66E+02	NR	NR	5.85E+02	3.66E+02	NR	NR
Selenium	(b)	1.87E+03	NR	NR	NR	1.87E+03	NR	NR	NR	1.87E+03	NR	NR	NR
Vanadium		3.89E+03	3.19E+03	NR	NR	3.89E+03	3.19E+03	NR	NR	3.89E+03	3.19E+03	NR	NR
Zinc	(b)	1.26E+05	7.32E+07	NR	NR	1.26E+05	7.32E+07	NR	NR	1.26E+05	7.32E+07	NR	NR
Cyanide (free)		1.25E+02	2.78E+04	1.25E+02	NR	1.25E+02	2.78E+04	1.25E+02	NR	1.25E+02	2.78E+04	1.25E+02	NR
Volatile Organic Compounds													
Benzene	(a)	2.22E+02	3.09E+01	2.72E+01	1.22E+03	2.22E+02	5.61E+01	4.48E+01	2.26E+03	2.22E+02	1.12E+02	7.45E+01	4.71E+03
Toluene		8.67E+04	2.85E+04	2.15E+04	8.69E+02	8.67E+04	6.00E+04	3.55E+04	1.92E+03	8.67E+04	1.28E+05	5.16E+04	4.36E+03
Ethylbenzene		3.89E+04	2.45E+03	2.30E+03	5.18E+02	3.89E+04	5.40E+03	4.74E+03	1.22E+03	3.89E+04	1.16E+04	8.93E+03	2.84E+03
Xylene - m		7.01E+04	2.48E+03	2.40E+03	6.25E+02	7.01E+04	5.46E+03	5.07E+03	1.47E+03	7.01E+04	1.16E+04	9.96E+03	3.46E+03
Xylene - o		7.01E+04	2.65E+03	2.56E+03	4.78E+02	7.01E+04	5.79E+03	5.35E+03	1.12E+03	7.01E+04	1.22E+04	1.04E+04	2.62E+03
Xylene - p		7.01E+04	2.39E+03	2.31E+03	5.76E+02	7.01E+04	5.25E+03	4.88E+03	1.35E+03	7.01E+04	1.12E+04	9.62E+03	3.17E+03
Total xylene		7.01E+04	2.39E+03	2.31E+03	6.25E+02	7.01E+04	5.25E+03	4.88E+03	1.47E+03	7.01E+04	1.12E+04	9.62E+03	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		1.17E+05	3.63E+03	3.52E+03	2.04E+04	1.17E+05	5.88E+03	5.60E+03	3.31E+04	1.17E+05	1.11E+04	1.01E+04	6.27E+04
Trichloroethene (TCE)		3.37E-01	1.26E+00	NR	1.54E+03	7.02E-01	2.62E+00	NR	3.22E+03	1.54E+00	5.79E+00	NR	7.14E+03
Tetrachloroethene (PCE)		5.44E+03	1.11E+01	1.11E+01	4.24E+02	5.44E+03	2.47E+01	2.46E+01	9.51E+02	5.44E+03	5.64E+01	5.58E+01	2.19E+03
1,1,1-Trichloroethane		2.34E+05	3.15E+02	3.15E+02	1.43E+03	2.34E+05	6.43E+02	6.42E+02	2.92E+03	2.34E+05	1.41E+03	1.40E+03	6.39E+03
1,1,1,2 Tetrachloroethane		2.24E+03	4.98E+01	4.88E+01	2.60E+03	2.24E+03	1.14E+02	1.09E+02	6.02E+03	2.24E+03	2.62E+02	2.35E+02	1.40E+04
1,1,2,2-Tetrachloroethane		2.24E+03	1.28E+02	1.21E+02	2.67E+03	2.24E+03	2.59E+02	2.32E+02	5.46E+03	2.24E+03	5.56E+02	4.45E+02	1.20E+04
Carbon Tetrachloride		1.56E+03	8.84E-01	8.83E-01	1.52E+03	1.56E+03	1.93E+00	1.93E+00	3.32E+03	1.56E+03	4.36E+00	4.36E+00	7.54E+03
1,2-Dichloroethane		4.68E+01	3.34E-01	3.32E-01	3.41E+03	4.68E+01	4.81E-01	4.76E-01	4.91E+03	4.68E+01	8.21E-01	8.07E-01	8.43E+03
Vinyl Chloride (chloroethene)		1.47E+01	6.08E-01	5.84E-01	1.36E+03	1.47E+01	7.86E-01	7.46E-01	1.76E+03	1.47E+01	1.20E+00	1.11E+00	2.96E+03
1,2,4-Trimethylbenzene		NR	1.05E+02	NR	4.74E+02	NR	1.73E+02	NR	1.16E+03	NR	2.41E+02	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds													
Acenaphthene		2.29E+04	3.40E+05	2.14E+04	5.70E+01	2.29E+04	5.56E+05	2.20E+04	1.41E+02	2.29E+04	5.56E+05	2.20E+04	3.36E+02
Acenaphthylene		2.29E+04	3.28E+05	2.14E+04	8.61E+01	2.29E+04	5.35E+05	2.20E+04	2.12E+02	2.29E+04	5.35E+05	2.20E+04	5.06E+02
Anthracene		1.15E+05	2.83E+06	1.10E+05	1.17E+00	1.15E+05	4.87E+06	1.12E+05	2.91E+00	1.15E+05	4.87E+06	1.12E+05	6.96E+00
Benzo(a)anthracene		5.92E+01	6.80E+01	3.16E+01	1.71E+00	5.92E+01	8.91E+01	3.56E+01	4.28E+00	5.92E+01	8.91E+01	3.56E+01	1.03E+01
Benzo(a)pyrene	(a)	1.59E+01	3.65E+01	NR	9.11E-01	1.59E+01	4.57E+01	NR	2.28E+00	1.59E+01	4.57E+01	NR	5.46E+02
Benzo(b)fluoranthene		1.49E+01	1.99E+01	8.52E+00	1.22E+00	1.49E+01	2.52E+01	9.36E+00	3.04E+00	1.49E+01	2.52E+01	9.36E+00	7.29E+00
Benzo(g,h,i)perylene		1.31E+03	2.43E+03	8.52E+02	1.54E-02	1.31E+03	2.84E+03	8.98E+02	3.85E-02	1.31E+03	2.84E+03	8.98E+02	9.23E-02
Benzo(k)fluoranthene		3.93E+02	5.77E+02	2.34E+02	6.87E-01	3.93E+02	7.16E+02	2.54E+02	1.72E+00	3.93E+02	7.16E+02	2.54E+02	4.12E+00
Chrysene		1.18E+02	1.27E+02	6.13E+01	4.40E-01	1.18E+02	1.68E+02	6.94E+01	1.10E+00	1.18E+02	1.68E+02	6.94E+01	2.64E+00
Dibenzo(a,h)anthracene		1.18E+00	1.86E+00	7.23E-01	3.93E-03	1.18E+00	2.27E+00	7.78E-01	9.84E-03	1.18E+00	2.27E+00	7.78E-01	2.36E-02
Fluoranthene		4.77E+03	2.97E+05	4.69E+03	1.89E+01	4.77E+03	4.36E+05	4.71E+03	4.73E+01	4.77E+03	4.36E+05	4.71E+03	1.13E+02
Fluorene		1.53E+04	1.52E+05	1.39E+04	3.09E+01	1.53E+04	2.96E+05	1.45E+04	7.65E+01	1.53E+04	2.96E+05	1.45E+04	1.83E+02
Indeno(1,2,3-cd)pyrene		1.69E+02	2.16E+02	9.48E+01	6.13E-02	1.69E+02	2.75E+02	1.05E+02	1.53E-01	1.69E+02	2.75E+02	1.05E+02	3.68E-01
Naphthalene		7.54E+03	4.90E+02	4.60E+02	7.64E+01	7.54E+03	9.51E+02	8.45E+02	1.83E+02	7.54E+03	9.51E+02	8.45E+02	4.32E+02
Phenanthrene		4.75E+03	1.27E+05	4.58E+03	3.60E+01	4.75E+03	2.15E+05	4.65E+03	8.96E+01	4.75E+03	2.15E+05	4.65E+03	2.14E+02
Pyrene		1.14E+04	6.85E+05	1.13E+04	2.20E+00	1.14E+04	1.01E+06	1.13E+04	5.49E+00	1.14E+04	1.01E+06	1.13E+04	1.32E+01
Phenol		2.06E+05	6.86E+03	6.64E+03	2.42E+04	2.06E+05	7.87E+03	7.58E+03	3.81E+04	2.06E+05	7.87E+03	7.58E+03	7.03E+04

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PRIMARY SCHOOL

Table 6

Human Health Generic Assessment Criteria by Pathway for Primary School

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Total Petroleum Hydrocarbons													
Aliphatic hydrocarbons EC_5-EC_6		9.75E+05	1.64E+03	1.64E+03	3.04E+02	9.75E+05	2.98E+03	2.98E+03	5.58E+02	9.75E+05	6.08E+03	6.07E+03	1.15E+03
Aliphatic hydrocarbons >EC_6-EC_8		9.75E+05	3.95E+03	3.94E+03	1.44E+02	9.75E+05	8.68E+03	8.66E+03	3.22E+02	9.75E+05	1.94E+04	1.93E+04	7.36E+02
Aliphatic hydrocarbons >EC_8-EC_{10}		1.95E+04	9.89E+02	9.77E+02	7.77E+01	1.95E+04	2.33E+03	2.26E+03	1.90E+02	1.95E+04	5.28E+03	4.87E+03	4.51E+02
Aliphatic hydrocarbons >EC_{10}-EC_{12}		1.95E+04	4.55E+03	4.26E+03	4.75E+01	1.95E+04	1.05E+04	8.75E+03	1.18E+02	1.95E+04	2.28E+04	1.40E+04	2.83E+02
Aliphatic hydrocarbons >EC_{12}-EC_{16}		1.95E+04	3.06E+04	1.55E+04	2.37E+01	1.95E+04	6.49E+04	1.78E+04	5.91E+01	1.95E+04	1.27E+05	1.87E+04	1.42E+02
Aliphatic hydrocarbons >EC_{16}-EC_{35}	(b)	3.22E+05	NR	NR	8.48E+00	3.49E+05	NR	NR	2.12E+01	3.64E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC_{35}-EC_{44}	(b)	3.22E+05	NR	NR	8.48E+00	3.49E+05	NR	NR	2.12E+01	3.64E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC_8-EC_{10}		7.80E+03	1.56E+03	1.48E+03	6.13E+02	7.80E+03	3.50E+03	3.02E+03	1.50E+03	7.80E+03	7.38E+03	5.05E+03	3.58E+03
Aromatic hydrocarbons >EC_{10}-EC_{12}		7.80E+03	6.99E+03	4.91E+03	3.64E+02	7.80E+03	1.46E+04	6.50E+03	8.99E+02	7.80E+03	2.83E+04	7.19E+03	2.15E+03
Aromatic hydrocarbons >EC_{12}-EC_{16}		7.80E+03	4.43E+04	7.43E+03	1.69E+02	7.80E+03	8.07E+04	7.60E+03	4.19E+02	7.80E+03	1.37E+05	7.69E+03	1.00E+03
Aromatic hydrocarbons >EC_{16}-EC_{21}	(b)	5.66E+03	NR	NR	5.37E+01	5.72E+03	NR	NR	1.34E+02	5.76E+03	NR	NR	3.21E+02
Aromatic hydrocarbons >EC_{21}-EC_{35}	(b)	5.80E+03	NR	NR	4.83E+00	5.81E+03	NR	NR	1.21E+01	5.82E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC_{35}-EC_{44}	(b)	5.80E+03	NR	NR	4.83E+00	5.81E+03	NR	NR	1.21E+01	5.82E+03	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. SAC - soil assessment criteria.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

Calculated SAC exceeds soil saturation limit and may significantly effect the interpretation of any exceedances since the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.

Calculated SAC exceeds soil saturation limit but will not effect the SAC significantly since the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.

Calculated SAC does not exceed the soil saturation limit.

For consistency where the theoretical solubility limit within RBCA has been exceeded in production of the GrAC, these cellls have also been hatched red.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs napthalene, acenaphthene and acenaphthylene,BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

(a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.

(b) SAC for barium and selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal an inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.

(c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)

(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.

(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PRIMARY SCHOOL

Table 7
Human Health Generic Assessment Criteria for Primary School

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	123	123	123
Barium	4,200	4,200	4,200
Beryllium	3.5	3.5	3.5
Boron	33,700	33,700	33,700
Cadmium	300	300	300
Chromium (III) - trivalent	2,560	2,560	2,560
Chromium (VI) - hexavalent	41	41	41
Copper	19,000	19,000	19,000
Lead	980	980	980
Elemental Mercury (Hg^0)	5.7 (4.3)	10.3	15.3
Inorganic Mercury (Hg^{2+})	200	200	200
Methyl Mercury (Hg^{4+})	52	55	57
Nickel	370	370	370
Selenium	1,870	1,870	1,870
Vanadium	3,190	3,190	3,190
Zinc	126,400	126,400	126,400
Cyanide (free)	125	125	125
Volatile Organic Compounds			
Benzene	27	45	74
Toluene	21,000 (869)	35,000 (1,920)	52,000 (4,360)
Ethylbenzene	2,000 (518)	5,000 (1,220)	9,000 (2,840)
Xylene - m	2,400 (625)	5,100 (1,470)	10,000 (3,460)
Xylene - o	2,600 (478)	5,300 (1,120)	10,400 (2,620)
Xylene - p	2,300 (576)	4,900 (1,350)	9,600 (3,170)
Total xylene	2,300 (625)	4,900 (1,470)	9,600 (3,460)
Methyl tertiary-Butyl ether (MTBE)	3,500	5,600	10,100
Trichloroethene (TCE)	0.34	0.70	1.54
Tetrachloroethene (PCE)	11	25	56
1,1,1-Trichloroethane	310	640	1,400
1,1,1,2 Tetrachloroethane	50	110	230
1,1,2,2-Tetrachloroethane	120	230	450
Carbon Tetrachloride	0.88	1.93	4.36
1,2-Dichloroethane	0.33	0.48	0.81
Vinyl Chloride (chloroethene)	0.58	0.75	1.11
1,2,4-Trimethylbenzene	105	173	241
1,3,5-Trimethylbenzene	NR	NR	NR
Semi-Volatile Organic Compounds			
Acenaphthene	21,400 (57)	22,000	22,000
Acenaphthylene	21,400 (86)	22,000	22,000
Anthracene	110,000	112,000	112,000
Benzo(a)anthracene	32	36	36
Benzo(a)pyrene	15.9	15.9	15.9
Benzo(b)fluoranthene	9	9	9
Benzo(g,h,i)perylene	850	900	900
Benzo(k)fluoranthene	230	250	250
Chrysene	61	69	69
Dibenzo(a,h)anthracene	0.72	0.78	0.78
Fluoranthene	4,700	4,700	4,700
Fluorene	14,000	15,000	15,000
Indeno(1,2,3-cd)pyrene	90	100	100
Naphthalene	460 (76)	840 (183)	840 (432)
Phenanthrene	4,600	4,600	4,600
Pyrene	11,000	11,000	11,000
Phenol	440*	690*	1,300*
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC_5-EC_6	1,600 (304)	3,000 (558)	6,100 (1,151)
Aliphatic hydrocarbons >EC_6-EC_8	4,000 (144)	9,000 (322)	19,000 (736)
Aliphatic hydrocarbons >EC_8-EC_{10}	1,000 (78)	2,300 (190)	4,900 (451)
Aliphatic hydrocarbons >EC_{10}-EC_{12}	4,300 (48)	8,800 (118)	14,000 (283)
Aliphatic hydrocarbons >EC_{12}-EC_{16}	16,000 (24)	18,000 (59)	19,000 (142)
Aliphatic hydrocarbons >EC_{16}-EC_{35}	322,000	349,000	364,000
Aliphatic hydrocarbons >EC_{35}-EC_{44}	322,000	349,000	364,000
Aromatic hydrocarbons >EC_8-EC_{10}	1,500 (613)	3,000 (1,500)	5,100 (3,580)
Aromatic hydrocarbons >EC_{10}-EC_{12}	4,900 (364)	6,500 (899)	7,200 (2,150)
Aromatic hydrocarbons >EC_{12}-EC_{16}	7,400	7,600	7,700
Aromatic hydrocarbons >EC_{16}-EC_{21}	5,700	5,700	5,800
Aromatic hydrocarbons >EC_{21}-EC_{35}	5,800	5,800	5,800
Aromatic hydrocarbons >EC_{35}-EC_{44}	5,800	5,800	5,800
Minerals			
Asbestos	Stage 1 test – No asbestos detected with ID; Stage 2 test - <0.001% dry weight (exceedance of either equates to an exceedance of the GAC)[1]		

Notes:

'-' Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.

NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.

* The GAC for Phenol is based on a threshold which is protective of direct contact (SC050021/Phenol SGV report)

The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58.
1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs napthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.

(VALUE IN BRACKETS) The SAC has been set as the model calculated SAC with the saturation limit shown in brackets.

RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the SAC with the corresponding solubility or vapour saturation limits given in brackets.

Appendix M
SOIL SCREENING RESULTS

Project name	Coop Smithies Moor
Project code	323197
Client name	Turner and Townsend
Address	Leeds Old Road, Heckmondwike WF16 9BB
NGR	
Land use	Primary School
SOM	6%
GAC version	2021_00

Notes

Lab sample ID	23/10894/4	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5	23/10894/2
Client sample ID	R05	WS01	WS02	WS02	WS03	WS03	WS04
Depth to top	2.1	0.2	0.3	0.9	0.2	1	0.7
Depth to bottom	2.3	0.3	0.4	1.1	0.3	1.2	0.8
Date sampled	01/11/23	27/10/23	27/10/23	27/10/23	27/10/23	27/10/23	30/10/23

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects										
Metals and Inorganics																		
Arsenic	mg/kg	123		29	<1	5	3	2		29	4	<1	5		<1			
Cadmium	mg/kg	300		1.2	<0.5	5	4	1		0.8	0.7	<0.5	1.2		0.6			
Chromium	mg/kg	2560	41	40	19	5	5	0		40	20	27	19		26			
Chromium (hexavalent)	mg/kg	41			<1	5	0	5		<1	<1	<1	<1		<1			
Copper	mg/kg	19000		106	13	5	5	0		106	20	31	24		13			
Lead	mg/kg	980		79	24	5	5	0		79	41	24	63		26			
Mercury	mg/kg	200	15.3		<0.17	5	0	5		<0.17	<0.17	<0.17	<0.17		<0.17			
Nickel	mg/kg	370		35	10	5	5	0		28	10	35	13		18			
Selenium	mg/kg	1870		2	<1	5	2	3		2	<1	<1	<1		2			
Zinc	mg/kg	126400		186	70	5	5	0		186	83	108	114		70			
Cyanide (free)	mg/kg	125	24		<1	5	0	5		<1	<1	<1	<1		<1			
Asbestos																		
Asbestos in soil						5	0	5		NAD	NAD	NAD	NAD		NAD			
Petroleum Hydrocarbons																		
Ali >C5-C6	mg/kg	6100	1151		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Ali >C6-C8	mg/kg	19000	736		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Ali >C8-C10	mg/kg	4900	451	3	<1	5	1	4		3	<1	<1	<1		<1			
Ali >C10-C12	mg/kg	14000	283	3	<1	5	1	4		3	<1	<1	<1		<1			
Ali >C12-C16	mg/kg	19000	142	5	<1	5	4	1		5	2	1	2		<1			
Ali >C16-C21	mg/kg			6	<1	5	4	1		6	6	1	5		<1			
Ali >C21-C35	mg/kg			63	1	5	5	0		18	63	5	62		1			
Ali >C16-C35 calculated	mg/kg	364000		69	1	5	5	0		24	69	6	67		1			
Total Aliphatics	mg/kg			72	1	5	5	0		35	72	8	69		1			
Aro >C5-C7	mg/kg				<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Aro >C7-C8	mg/kg				<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Aro >C8-C10	mg/kg	5100	3580	1	<1	5	2	3		1	1	<1	<1		<1			
Aro >C10-C12	mg/kg	7200	2150	5	<1	5	1	4		5	<1	<1	<1		<1			
Aro >C12-C16	mg/kg	7700		25	<1	5	4	1		25	4	3	3		<1			
Aro >C16-C21	mg/kg	5800		122	<1	5	4	1		122	15	3	10		<1			
Aro >C21-C35	mg/kg	5800		345	<1	5	4	1		345	56	8	50		<1			
Total Aromatics	mg/kg			498	<1	5	4	1		498	77	13	63		<1			
TPH (Ali & Aro)	mg/kg			533	1	5	5	0		533	149	21	132		1			
BTEX - Benzene	mg/kg	74			<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
BTEX - Toluene	mg/kg	52000	4360		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
BTEX - Ethyl Benzene	mg/kg	9000	2840		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
BTEX - o Xylene	mg/kg	10400	2620		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
BTEX - m & p Xylene	mg/kg	9600	3170		<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Fuel oxygenates																		

Lab sample ID									23/10894/4	23/10785/1	23/10785/2	23/10785/3	23/10785/4	23/10785/5	23/10894/2			
Client sample ID									R05	WS01	WS02	WS02	WS03	WS03	WS04			
Depth to top									2.1	0.2	0.3	0.9	0.2	1	0.7			
Depth to bottom									2.3	0.3	0.4	1.1	0.3	1.2	0.8			
Date sampled									01/11/23	27/10/23	27/10/23	27/10/23	27/10/23	27/10/23	30/10/23			
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects										
MTBE	mg/kg	10100			<0.01	5	0	5		<0.05	<0.01	<0.01	<0.01		<0.01			
Polycyclic aromatic hydrocarbons																		
Acenaphthene	mg/kg	22000		0.7	<0.01	5	3	2		0.7	0.08	<0.01	0.08		<0.01			
Acenaphthylene	mg/kg	22000		0.05	<0.01	5	3	2		0.05	0.03	<0.01	0.04		<0.01			
Anthracene	mg/kg	112000		1.27	<0.02	5	3	2		1.27	0.17	<0.02	0.21		<0.02			
Benzo(a)anthracene	mg/kg	36		4.4	<0.04	5	3	2		4.4	0.72	<0.04	1.36		<0.04			
Benzo(a)pyrene	mg/kg	15.9		3.16	<0.04	5	3	2		3.16	0.54	<0.04	1.17		<0.04			
Benzo(b)fluoranthene	mg/kg	9		4.4	<0.05	5	3	2		4.4	0.69	<0.05	1.45		<0.05			
Benzo(ghi)perylene	mg/kg	900		1.36	<0.05	5	3	2		1.36	0.28	<0.05	0.59		<0.05			
Benzo(k)fluoranthene	mg/kg	250		1.6	<0.07	5	3	2		1.6	0.26	<0.07	0.57		<0.07			
Chrysene	mg/kg	69		5.05	<0.06	5	3	2		5.05	0.69	<0.06	1.24		<0.06			
Dibenzo(ah)anthracene	mg/kg	0.78		0.36	<0.04	5	3	2		0.36	0.06	<0.04	0.13		<0.04			
Fluoranthene	mg/kg	4700		10.2	<0.08	5	3	2		10.2	1.06	<0.08	1.68		<0.08			
Fluorene	mg/kg	15000		0.58	<0.01	5	3	2		0.58	0.06	<0.01	0.06		<0.01			
Indeno(123-cd)pyrene	mg/kg	100		1.7	<0.03	5	3	2		1.7	0.35	<0.03	0.75		<0.03			
Naphthalene	mg/kg	840	432	0.36	<0.03	5	3	2		0.36	0.04	<0.03	0.05		<0.03			
Phenanthrene	mg/kg	4600		7.29	<0.03	5	4	1		7.29	0.64	0.06	0.76		<0.03			
Pyrene	mg/kg	11000		8.88	<0.07	5	3	2		8.88	1.33	<0.07	1.84		<0.07			
Total PAH-16MS	mg/kg			51.4	<0.08	5	3	2		51.4	7	<0.08	12		<0.08			
Other analytes																		
% Stones >10mm	% w/w			38.3	<0.1	7	2	5	<0.1	<0.1	38.3	<0.1	32.7	<0.1	<0.1			
pH	pH			10.09	7	5	5	0		7.45	10.09	7.6	9.27		7			
pH BRE	pH			8.37	4.48	5	5	0	4.48	7.45		7.6		8.37	7			
Sulphate BRE (acid sol)	% w/w			0.07	<0.02	5	4	1	0.02	0.07		0.02		<0.02	0.02			
Sulphur BRE (total)	% w/w			0.17	0.01	5	5	0	0.17	0.06		0.03		0.01	0.01			
Total Organic Carbon	% w/w			9	2.15	2	2	0		9		2.15						
Converted to SOM (x / 0.58)	% w/w			15.51724	3.706897	2	2	0		15.5172414		3.70689655						

Appendix N
HASWASTE ASSESSMENT

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells.
If any calculation cells below state "0.00000", testing has NOT been ur

Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH		Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05								
Depth (m)		0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3								
Envirolab reference																
% Moisture	%															
pH (soil)		7.45	10.09	7.6	9.27		7									
pH (leachate)																
Arsenic	mg/kg	29	4	1	5		1									
Cadmium	mg/kg	0.8	0.7	0.5	1.2		0.6									
Copper	mg/kg	106	20	31	24		13									
CrVI or Chromium	mg/kg	40	20	27	19		26									
Lead	mg/kg	79	41	24	63		26									
Mercury	mg/kg	0.17	0.17	0.17	0.17		0.17									
Nickel	mg/kg	28	10	35	13		18									
Selenium	mg/kg	2	1	1	1		2									
Zinc	mg/kg	186	83	108	114		70									
Barium	mg/kg															
Beryllium	mg/kg															
Vanadium	mg/kg															
Cobalt	mg/kg															
Manganese	mg/kg															
Molybdenum	mg/kg															
Antimony	mg/kg															
Aluminium	mg/kg															
Bismuth	mg/kg															
CrIII	mg/kg															
Iron	mg/kg															
Strontium	mg/kg															
Tellurium	mg/kg															
Thallium	mg/kg															
Titanium	mg/kg															
Tungsten	mg/kg															
Ammoniacal N	mg/kg															
ws Boron	mg/kg															
PAH (Input Total PAH **OR** individual PAH results)																
Acenaphthene	mg/kg	0.7	0.08	0.01	0.08		0.01									
Acenaphthylene	mg/kg	0.05	0.03	0.01	0.04		0.01									
Anthracene	mg/kg	1.27	0.17	0.02	0.21		0.02									
Benzo(a)anthracene	mg/kg	4.4	0.72	0.04	1.36		0.04									
Benzo(a)pyrene	mg/kg	3.16	0.54	0.04	1.17		0.04									
Benzo(b)fluoranthene	mg/kg	4.4	0.69	0.05	1.45		0.05									
Benzo(ghi)perylene	mg/kg	1.36	0.28	0.05	0.59		0.05									
Benzo(k)fluoranthene	mg/kg	1.6	0.26	0.07	0.57		0.07									
Chrysene	mg/kg	5.05	0.69	0.06	1.24		0.06									
Dibenzo(ah)anthracene	mg/kg	0.36	0.06	0.04	0.13		0.04									
Fluoranthene	mg/kg	10.2	1.06	0.08	1.68		0.08									
Fluorene	mg/kg	0.58	0.06	0.01	0.06		0.01									
Indeno(123cd)pyrene	mg/kg	1.7	0.35	0.03	0.75		0.03									
Naphthalene	mg/kg	0.36	0.04	0.03	0.05		0.03									
Phenanthrene	mg/kg	7.29	0.64	0.06	0.76		0.03									
Pyrene	mg/kg	8.88	1.33	0.07	1.84		0.07									
Coronene	mg/kg															
Total PAHs (16 or 17)	mg/kg	51.4	7	0.08	12		0.08									
TPH																
Petrol	mg/kg															
Diesel	mg/kg															
Lube Oil	mg/kg															
Crude Oil	mg/kg															
White Spirit / Kerosene	mg/kg															

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323197 Coop Smithies Moor

TP/WS/BH		Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05							
Depth (m)		0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3							
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg	533	149	21	132										
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH	Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05							
Depth (m)	0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3							
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH		Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05						
Depth (m)		0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3						
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

envirolab

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If any calculation cells below state "0.00000", testing has NOT been ur

323197 Coop Smithies Moor

TP/WS/BH		Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05							
Depth (m)		0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3							
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y	N	N	N	N	N	N	N							
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above is "Y", the soil is Hazard	
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.															
		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.												If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only Asbestos % results when visual identifiable	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.												If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Iden	
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie	
		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.												All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % (	
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text turns red, the samples s
Corrosive HP8	≥5%	<1%	0.01151	0.00437	0.00532	0.00431	0.00000	0.00512	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.01581	0.00279	0.00364	0.00337	0.00000	0.00160	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.02459	0.00521	0.01060	0.00683	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00514	0.00070	0.00001	0.00120	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00768	0.00384	0.00707	0.00365	0.00000	0.00499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.05330	0.01490	0.00240	0.01320	0.00000	0.00260	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.05330	0.01490	0.00210	0.01320	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00385	0.00055	0.00015	0.00068	0.00000	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00796	0.00398	0.00533	0.00379	0.00000	0.00527	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.03254	0.00933	0.01305	0.01321	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00002	0.00002	0.00002	0.00002	0.00000	0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00768	0.00384	0.00518	0.00365	0.00000	0.00499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00008	0.00007	0.00005	0.00012	0.00000	0.00006	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00778	0.00393	0.00525	0.00379	0.00000	0.00507	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00028	0.00014	0.00014	0.00014	0.00000	0.00028	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.02553	0.00838	0.01297	0.01164	0.00000	0.00771	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.05330	0.01490	0.00707	0.01320	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH		Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05							
Depth (m)		0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3							
Envirolab reference															
Carcinogenic HP7	≥0.1%	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%	0.00514	0.00070	0.00001	0.00120	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	7.45	10.09	7.60	9.27	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	7.45	10.09	7.60	9.27	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%	0.00790	0.00410	0.00707	0.00630	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%	0.05330	0.01490	0.00518	0.01320	0.00000	0.00499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%	0.05330	0.01490	0.00518	0.01320	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%	0.00566	0.00202	0.00707	0.00263	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%	0.00768	0.00384	0.00707	0.00365	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.07077	0.02471	0.03207	0.03279	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH			Ws01	Ws02	Ws02	Ws03	Ws03	WS04	R05							
Depth (m)			0.2-0.3	0.3-0.4	0.9-1.1	0.2-0.3	1-1.2	0.7-0.8	2.1-2.3							
Envirolab reference																
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.12407	0.03961	0.03417	0.04599	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	7.61020	2.62030	3.22780	3.41130	0.00000	#REF!	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please contact Envirolab.

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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
lous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7						
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
use Asbestos % results where loose fibres or micro pieces are only present. You cannot use pieces are present.			If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil abo
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
s is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ntifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.			If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											If visual identifiable There
anything ACM that is not Loose Fibres.			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											
Composition in Soil result of <0.1% for the soil to become non-hazardous waste.			All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual a
Hazardous Property	Thresholds	Cut Off Value	hould be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.				
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please ente If any

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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If any calculation cells below state "0.00000", testing has NOT been undertaken that c

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7											If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and H		
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ve is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. 'ore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste H Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible w							
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is n							
		sbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil resu							
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text turns red, the samples should be classified as			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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ontributes to that Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
P7		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
where loose fibres or micro pieces are only present. You cannot use		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil above is "Y", but Asbestos	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
IP5 and HP7 Construction material containing Asbestos 17 06 05.		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.											If visual identifiable pieces of asbestos are	
ith the naked eye is "Y", the soil is Hazardous Waste.		Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											Therefore, if Asbestos in Soil	
ot Loose Fibres.		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												
ılt of <0.1% for the soil to become non-hazardous waste.		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual asbestos pieces need to	

Hazardous Property	Thresholds	Cut Off Value	; Hazardous Waste.													If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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ontributes to that Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7									If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7			
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.		% above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or n Asbestos % results when visual identifiable pieces are present.			
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construct Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y",			
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.									Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.			
		be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil			

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.									If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Creosote	mg/kg													
Unknown TPH with ID	mg/kg													
Unknown TPHCWG	mg/kg													
Total Sulphide	mg/kg													
Complex Cyanide	mg/kg													
Free (or Total) Cyanide	mg/kg													
Thiocyanate	mg/kg													
Elemental/Free Sulphur	mg/kg													
Phenols Input Total Phenols HPLC **OR** individual Phenol results.														
Phenol	mg/kg													
Cresols	mg/kg													
Xylenols	mg/kg													
Resourcinol	mg/kg													
Phenols Total by HPLC	mg/kg													
BTEX Input Total BTEX **OR** individual BTEX results.														
Benzene	mg/kg													
Toluene	mg/kg													
Ethylbenzene	mg/kg													
Xylenes	mg/kg													
Total BTEX	mg/kg													
PCBs (POPs)														
PCBs Total (eg EC7/WHO12)	mg/kg													
PBBs (POPs)														
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg													

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc
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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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either "0.0000" or "#DIV/0!".
: Hazardous Property.

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Please enter available data in the rows assc
If any calculation cells below state "0.(

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If /
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ıicro pieces are only present. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", th	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		ion material containing Asbestos 17 06 05. the soil is Hazardous Waste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Therefore, if Asbestos in Soil above is "Y", the Asbes	
			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											Identifiable Piec
		to become non-hazardous waste.	All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving on		
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**											**If cells below turn**
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

envirolab

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either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans														
OR individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													

)ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".)0000", testing has NOT been undertaken that contributes to that Hazardous Property.

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Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

e soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only pr Asbestos % results when visual identifiable pieces are present.

s Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. tos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous V

s are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

y fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardo

Hazardous Property	Thresholds	Cut Off Value	ellow and the text turns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.						
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

ır "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the t

perty. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.00000", testing h

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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TP/WS/BH															
Depth (m)															
Envirolab reference															
POPs Dioxins and Furans Input Total Dioxins and Furans															
OR individual Dioxin and Furan results.															
2,3,7,8-TeCDD	mg/kg														
1,2,3,7,8-PeCDD	mg/kg														
1,2,3,4,7,8-HxCDD	mg/kg														
1,2,3,6,7,8-HxCDD	mg/kg														
1,2,3,7,8,9-HxCDD	mg/kg														
1,2,3,4,6,7,8-HpCDD	mg/kg														
OCDD	mg/kg														
2,3,7,8-TeCDF	mg/kg														
1,2,3,7,8-PeCDF	mg/kg														
2,3,4,7,8-PeCDF	mg/kg														
1,2,3,4,7,8-HxCDF	mg/kg														
1,2,3,6,7,8-HxCDF	mg/kg														
2,3,4,6,7,8-HxCDF	mg/kg														
1,2,3,7,8,9-HxCDF	mg/kg														
1,2,3,4,6,7,8-HpCDF	mg/kg														
1,2,3,4,7,8,9-HpCDF	mg/kg														
OCDF	mg/kg														
Total Dioxins and Furans	mg/kg														
Some Pesticides (POPs unless otherwise stated)															
Aldrin	mg/kg														
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg														
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg														
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg														
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg														
Dieldrin	mg/kg														
Endrin	mg/kg														
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg														
Heptachlor	mg/kg														
Hexachlorobenzene	mg/kg														
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg														
p,p'-DDT ***OR*** *Total DDT*	mg/kg														
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg														
Chlordecone (kepone)	mg/kg														
Pentachlorobenzene	mg/kg														
Mirex	mg/kg														
Toxaphene (camphechlor)	mg/kg														
Tin															



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above i
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.														
		sent. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous			Asbestos % results
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		Asbestos 17 06 05. Vaste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results ar Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%"			
		us waste.	Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres. All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								Identifiable Pieces are Cement, Fragme All visual asbestos pieces need to be removed leaving only fibres (or micro piece			

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text tur
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		s "Y", the soil is Hazardous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7					
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%													
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ı Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use when visual identifiable pieces are present.					If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		ıd the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ', but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.					If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								
		nts, Board, Rope etc. ie anything ACM that is not Loose Fibres.					Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								
		s) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.					All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								
Hazardous Property	Thresholds	Cut Off Value	ns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.							
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

envirolab

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above is "Y", the soil is Hazarc
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below													
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.												If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only Asbestos % results when visual identifiable
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.												If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Iden
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie
		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.												All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos %
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.													If cells below turn yellow and the text turns red, the samples s
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please ente

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please ente

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
lous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7						
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
use Asbestos % results where loose fibres or micro pieces are only present. You cannot use pieces are present.			If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil abo
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
s is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ntifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.			If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											If visual identifiable There
anything ACM that is not Loose Fibres.			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											
Composition in Soil result of <0.1% for the soil to become non-hazardous waste.			All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual a
Hazardous Property	**Thresholds**	**Cut Off Value**	**hould be classified as Hazardous Waste.**								**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please ente If any

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7										If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and H			
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ve is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results Asbestos % results when visual identifiable pieces are present.					
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. 'ore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste H Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible w					
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is n					
		sbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil resu					

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.											If cells below turn yellow and the text turns red, the samples should be classified as			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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ontributes to that Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
P7		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
where loose fibres or micro pieces are only present. You cannot use		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil above is "Y", but Asbestos	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
IP5 and HP7 Construction material containing Asbestos 17 06 05.		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.											If visual identifiable pieces of asbestos are	
ith the naked eye is "Y", the soil is Hazardous Waste.		Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											Therefore, if Asbestos in Soil	
ot Loose Fibres.		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												
ılt of <0.1% for the soil to become non-hazardous waste.		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual asbestos pieces need to	

Hazardous Property	Thresholds	Cut Off Value	; Hazardous Waste.													If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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TP/WS/BH														
Depth (m)														
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Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7										If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7			
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.		% above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.						If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or n Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.						If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construct Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y",							
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.										Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.			
		be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.						All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil							
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.										If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Creosote	mg/kg													
Unknown TPH with ID	mg/kg													
Unknown TPHCWG	mg/kg													
Total Sulphide	mg/kg													
Complex Cyanide	mg/kg													
Free (or Total) Cyanide	mg/kg													
Thiocyanate	mg/kg													
Elemental/Free Sulphur	mg/kg													
Phenols Input Total Phenols HPLC **OR** individual Phenol results.														
Phenol	mg/kg													
Cresols	mg/kg													
Xylenols	mg/kg													
Resourcinol	mg/kg													
Phenols Total by HPLC	mg/kg													
BTEX Input Total BTEX **OR** individual BTEX results.														
Benzene	mg/kg													
Toluene	mg/kg													
Ethylbenzene	mg/kg													
Xylenes	mg/kg													
Total BTEX	mg/kg													
PCBs (POPs)														
PCBs Total (eg EC7/WHO12)	mg/kg													
PBBs (POPs)														
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg													

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc
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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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either "0.0000" or "#DIV/0!".
: Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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Please enter available data in the rows assc
If any calculation cells below state "0.(

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If /
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ıicro pieces are only present. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", th	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		ion material containing Asbestos 17 06 05. the soil is Hazardous Waste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Therefore, if Asbestos in Soil above is "Y", the Asbes	
			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											Identifiable Piec
		to become non-hazardous waste.	All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving on		
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**											**If cells below turn**
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

envirolab

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either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans														
OR individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													

)ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".)0000", testing has NOT been undertaken that contributes to that Hazardous Property.

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Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

e soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only pr Asbestos % results when visual identifiable pieces are present.

s Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. tos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous V

s are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

y fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardo

Hazardous Property	Thresholds	Cut Off Value	ellow and the text turns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.						
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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TP/WS/BH															
Depth (m)															
Envirolab reference															
POPs Dioxins and Furans Input Total Dioxins and Furans															
OR individual Dioxin and Furan results.															
2,3,7,8-TeCDD	mg/kg														
1,2,3,7,8-PeCDD	mg/kg														
1,2,3,4,7,8-HxCDD	mg/kg														
1,2,3,6,7,8-HxCDD	mg/kg														
1,2,3,7,8,9-HxCDD	mg/kg														
1,2,3,4,6,7,8-HpCDD	mg/kg														
OCDD	mg/kg														
2,3,7,8-TeCDF	mg/kg														
1,2,3,7,8-PeCDF	mg/kg														
2,3,4,7,8-PeCDF	mg/kg														
1,2,3,4,7,8-HxCDF	mg/kg														
1,2,3,6,7,8-HxCDF	mg/kg														
2,3,4,6,7,8-HxCDF	mg/kg														
1,2,3,7,8,9-HxCDF	mg/kg														
1,2,3,4,6,7,8-HpCDF	mg/kg														
1,2,3,4,7,8,9-HpCDF	mg/kg														
OCDF	mg/kg														
Total Dioxins and Furans	mg/kg														
Some Pesticides (POPs unless otherwise stated)															
Aldrin	mg/kg														
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg														
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg														
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg														
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg														
Dieldrin	mg/kg														
Endrin	mg/kg														
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg														
Heptachlor	mg/kg														
Hexachlorobenzene	mg/kg														
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg														
p,p'-DDT ***OR*** *Total DDT*	mg/kg														
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg														
Chlordecone (kepone)	mg/kg														
Pentachlorobenzene	mg/kg														
Mirex	mg/kg														
Toxaphene (camphechlor)	mg/kg														
Tin															



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above i
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.														
		sent. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous			Asbestos % results
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		Asbestos 17 06 05. Vaste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results ar Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%"			
		us waste.	Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres. All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								Identifiable Pieces are Cement, Fragme All visual asbestos pieces need to be removed leaving only fibres (or micro piece			

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text tur
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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ɪr "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the t

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.															
2,3,7,8-TeCDD	mg/kg														
1,2,3,7,8-PeCDD	mg/kg														
1,2,3,4,7,8-HxCDD	mg/kg														
1,2,3,6,7,8-HxCDD	mg/kg														
1,2,3,7,8,9-HxCDD	mg/kg														
1,2,3,4,6,7,8-HpCDD	mg/kg														
OCDD	mg/kg														
2,3,7,8-TeCDF	mg/kg														
1,2,3,7,8-PeCDF	mg/kg														
2,3,4,7,8-PeCDF	mg/kg														
1,2,3,4,7,8-HxCDF	mg/kg														
1,2,3,6,7,8-HxCDF	mg/kg														
2,3,4,6,7,8-HxCDF	mg/kg														
1,2,3,7,8,9-HxCDF	mg/kg														
1,2,3,4,6,7,8-HpCDF	mg/kg														
1,2,3,4,7,8,9-HpCDF	mg/kg														
OCDF	mg/kg														
Total Dioxins and Furans	mg/kg														
Some Pesticides (POPs unless otherwise stated)															
Aldrin	mg/kg														
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg														
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg														
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg														
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg														
Dieldrin	mg/kg														
Endrin	mg/kg														
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg														
Heptachlor	mg/kg														
Hexachlorobenzene	mg/kg														
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg														
p,p'-DDT ***OR*** *Total DDT*	mg/kg														
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg														
Chlordecone (kepone)	mg/kg														
Pentachlorobenzene	mg/kg														
Mirex	mg/kg														
Toxaphene (camphechlor)	mg/kg														
Tin															



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
s "Y", the soil is Hazardous Waste HP5 and HP7									If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7						
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%													
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.															
ı Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.						
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
ıd the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ', but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.						
nts, Board, Rope etc. ie anything ACM that is not Loose Fibres.									Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.						
s) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.						
Hazardous Property	Thresholds	Cut Off Value	ns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.						
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

envirolab

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above is "Y", the soil is Hazarc
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.												If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only Asbestos % results when visual identifiable
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.												If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Iden
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie
		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.												All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos %
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text turns red, the samples s
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
lous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7						
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
use Asbestos % results where loose fibres or micro pieces are only present. You cannot use pieces are present.			If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil abo
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
s is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ntifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.			If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											If visual identifiable There
anything ACM that is not Loose Fibres.			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											
Composition in Soil result of <0.1% for the soil to become non-hazardous waste.			All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual a
Hazardous Property	Thresholds	Cut Off Value	hould be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.				
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please ente If any

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7											If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and H		
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ve is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. 'ore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste H Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible w							
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is n							
		sbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil resu							
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text turns red, the samples should be classified as			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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ontributes to that Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
P7		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
where loose fibres or micro pieces are only present. You cannot use		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil above is "Y", but Asbestos	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
IP5 and HP7 Construction material containing Asbestos 17 06 05.		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.											If visual identifiable pieces of asbestos are	
ith the naked eye is "Y", the soil is Hazardous Waste.		Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											Therefore, if Asbestos in Soil	
ot Loose Fibres.		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												
ılt of <0.1% for the soil to become non-hazardous waste.		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual asbestos pieces need to	

Hazardous Property	Thresholds	Cut Off Value	; Hazardous Waste.													If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7										If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7			
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.		% above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.							If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or n Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.							If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construct Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y",						
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.										Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.			
		be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.							All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil						
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**										**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Creosote	mg/kg													
Unknown TPH with ID	mg/kg													
Unknown TPHCWG	mg/kg													
Total Sulphide	mg/kg													
Complex Cyanide	mg/kg													
Free (or Total) Cyanide	mg/kg													
Thiocyanate	mg/kg													
Elemental/Free Sulphur	mg/kg													
Phenols Input Total Phenols HPLC **OR** individual Phenol results.														
Phenol	mg/kg													
Cresols	mg/kg													
Xylenols	mg/kg													
Resourcinol	mg/kg													
Phenols Total by HPLC	mg/kg													
BTEX Input Total BTEX **OR** individual BTEX results.														
Benzene	mg/kg													
Toluene	mg/kg													
Ethylbenzene	mg/kg													
Xylenes	mg/kg													
Total BTEX	mg/kg													
PCBs (POPs)														
PCBs Total (eg EC7/WHO12)	mg/kg													
PBBs (POPs)														
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg													

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If /
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		nicro pieces are only present. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", th	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		ion material containing Asbestos 17 06 05. the soil is Hazardous Waste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Therefore, if Asbestos in Soil above is "Y", the Asbes	
			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.									Identifiable Piec	
		to become non-hazardous waste.	All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving on	

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.													If cells below turn y
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Table 3 of the CLP, CL Inventory, ATPs, IARC, Concawe, MSDSs, REACH + Pesticide Properties databases. Worst case REACH + MSDS's used for "*" STOT + Acute Toxicity.

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either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" o

)0000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans														
OR individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													

)ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".)0000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

e soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only pr Asbestos % results when visual identifiable pieces are present.

s Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. tos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous V

s are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

y fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardo

Hazardous Property	Thresholds	Cut Off Value	ellow and the text turns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.						
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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TP/WS/BH															
Depth (m)															
Envirolab reference															
POPs Dioxins and Furans Input Total Dioxins and Furans															
OR individual Dioxin and Furan results.															
2,3,7,8-TeCDD	mg/kg														
1,2,3,7,8-PeCDD	mg/kg														
1,2,3,4,7,8-HxCDD	mg/kg														
1,2,3,6,7,8-HxCDD	mg/kg														
1,2,3,7,8,9-HxCDD	mg/kg														
1,2,3,4,6,7,8-HpCDD	mg/kg														
OCDD	mg/kg														
2,3,7,8-TeCDF	mg/kg														
1,2,3,7,8-PeCDF	mg/kg														
2,3,4,7,8-PeCDF	mg/kg														
1,2,3,4,7,8-HxCDF	mg/kg														
1,2,3,6,7,8-HxCDF	mg/kg														
2,3,4,6,7,8-HxCDF	mg/kg														
1,2,3,7,8,9-HxCDF	mg/kg														
1,2,3,4,6,7,8-HpCDF	mg/kg														
1,2,3,4,7,8,9-HpCDF	mg/kg														
OCDF	mg/kg														
Total Dioxins and Furans	mg/kg														
Some Pesticides (POPs unless otherwise stated)															
Aldrin	mg/kg														
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg														
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg														
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg														
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg														
Dieldrin	mg/kg														
Endrin	mg/kg														
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg														
Heptachlor	mg/kg														
Hexachlorobenzene	mg/kg														
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg														
p,p'-DDT ***OR*** *Total DDT*	mg/kg														
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg														
Chlordecone (kepone)	mg/kg														
Pentachlorobenzene	mg/kg														
Mirex	mg/kg														
Toxaphene (camphechlor)	mg/kg														
Tin															



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above i
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.														
		sent. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous			Asbestos % results
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		Asbestos 17 06 05. Vaste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results ar Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%"			
		us waste.	Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres. All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								Identifiable Pieces are Cement, Fragme All visual asbestos pieces need to be removed leaving only fibres (or micro piece			

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text tur
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		s "Y", the soil is Hazardous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7					
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%													
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ı Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use when visual identifiable pieces are present.					If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		ıd the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ', but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.					If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								
		nts, Board, Rope etc. ie anything ACM that is not Loose Fibres.					Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								
		s) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.					All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								
Hazardous Property	Thresholds	Cut Off Value	ns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.							
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

envirolab

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above is "Y", the soil is Hazarc
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.												If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only Asbestos % results when visual identifiable
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.												If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Iden
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie
		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.												All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos %
Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text turns red, the samples s
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
lous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7						
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
use Asbestos % results where loose fibres or micro pieces are only present. You cannot use pieces are present.			If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil abo
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
s is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ntifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.			If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											If visual identifiable There
anything ACM that is not Loose Fibres.			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											
Composition in Soil result of <0.1% for the soil to become non-hazardous waste.			All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual a
Hazardous Property	Thresholds	Cut Off Value	hould be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.				
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Please ente If any

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7											If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and H		
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only) %	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ve is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. 'ore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste H Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible w							
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is n							
		sbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil resu							
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**											**If cells below turn yellow and the text turns red, the samples should be classified as**			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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Please enter available data
If any calculation cells

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
P7		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
where loose fibres or micro pieces are only present. You cannot use		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.											If Asbestos in Soil above is "Y", but Asbestos	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
IP5 and HP7 Construction material containing Asbestos 17 06 05.		If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.											If visual identifiable pieces of asbestos are	
ith the naked eye is "Y", the soil is Hazardous Waste.		Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.											Therefore, if Asbestos in Soil	
ot Loose Fibres.		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												
ılt of <0.1% for the soil to become non-hazardous waste.		All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.											All visual asbestos pieces need to	

Hazardous Property	Thresholds	Cut Off Value	; Hazardous Waste.													If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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If any calculation cells

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													

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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Asbestos in Soil	Thresholds														
Asbestos detected in Soil (enter Y or N)	Y														
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7										If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7			
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below														
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.		% above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.							If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or n Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y														
		present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.							If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construct Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y",						
		Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.										Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.			
		be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.							All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil						
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**										**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**			
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Creosote	mg/kg													
Unknown TPH with ID	mg/kg													
Unknown TPHCWG	mg/kg													
Total Sulphide	mg/kg													
Complex Cyanide	mg/kg													
Free (or Total) Cyanide	mg/kg													
Thiocyanate	mg/kg													
Elemental/Free Sulphur	mg/kg													
Phenols Input Total Phenols HPLC **OR** individual Phenol results.														
Phenol	mg/kg													
Cresols	mg/kg													
Xylenols	mg/kg													
Resourcinol	mg/kg													
Phenols Total by HPLC	mg/kg													
BTEX Input Total BTEX **OR** individual BTEX results.														
Benzene	mg/kg													
Toluene	mg/kg													
Ethylbenzene	mg/kg													
Xylenes	mg/kg													
Total BTEX	mg/kg													
PCBs (POPs)														
PCBs Total (eg EC7/WHO12)	mg/kg													
PBBs (POPs)														
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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either "0.0000" or "#DIV/0!".
: Hazardous Property.

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If any calculation cells below state "0.(

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If /
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ıicro pieces are only present. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.									If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", th	
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		ion material containing Asbestos 17 06 05. the soil is Hazardous Waste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.									If visual identifiable pieces of asbestos are present, you cannot use Therefore, if Asbestos in Soil above is "Y", the Asbes	
			Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.											Identifiable Piec
		to become non-hazardous waste.	All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.									All visual asbestos pieces need to be removed leaving on		
Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**											**If cells below turn**
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

envirolab

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either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows assc

: Hazardous Property. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.(

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". 00000", testing has NOT been undertaken that contributes to that Hazardous Property.

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If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

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323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans														
OR individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														

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ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													

)ciated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".)0000", testing has NOT been undertaken that contributes to that Hazardous Property.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" c If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

e soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only pr Asbestos % results when visual identifiable pieces are present.

s Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. tos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous V

s are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

y fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardo

Hazardous Property	Thresholds	Cut Off Value	ellow and the text turns red, the samples should be classified as Hazardous Waste.								If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.						
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Pro

323197 Coop Smithies Moor															
TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

ır "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the t

perty. If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. If any calculation cells below state "0.00000", testing h

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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														



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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
POPs Dioxins and Furans Input Total Dioxins and Furans															
OR individual Dioxin and Furan results.															
2,3,7,8-TeCDD	mg/kg														
1,2,3,7,8-PeCDD	mg/kg														
1,2,3,4,7,8-HxCDD	mg/kg														
1,2,3,6,7,8-HxCDD	mg/kg														
1,2,3,7,8,9-HxCDD	mg/kg														
1,2,3,4,6,7,8-HpCDD	mg/kg														
OCDD	mg/kg														
2,3,7,8-TeCDF	mg/kg														
1,2,3,7,8-PeCDF	mg/kg														
2,3,4,7,8-PeCDF	mg/kg														
1,2,3,4,7,8-HxCDF	mg/kg														
1,2,3,6,7,8-HxCDF	mg/kg														
2,3,4,6,7,8-HxCDF	mg/kg														
1,2,3,7,8,9-HxCDF	mg/kg														
1,2,3,4,6,7,8-HpCDF	mg/kg														
1,2,3,4,7,8,9-HpCDF	mg/kg														
OCDF	mg/kg														
Total Dioxins and Furans	mg/kg														
Some Pesticides (POPs unless otherwise stated)															
Aldrin	mg/kg														
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg														
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg														
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg														
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg														
Dieldrin	mg/kg														
Endrin	mg/kg														
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg														
Heptachlor	mg/kg														
Hexachlorobenzene	mg/kg														
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg														
p,p'-DDT ***OR*** *Total DDT*	mg/kg														
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg														
Chlordecone (kepone)	mg/kg														
Pentachlorobenzene	mg/kg														
Mirex	mg/kg														
Toxaphene (camphechlor)	mg/kg														
Tin															



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7												If Asbestos in Soil above i
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%												
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
sent. You cannot use	If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.										If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Asbestos % results			
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
Asbestos 17 06 05. Vaste.	If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.										If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results ar Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%'			
	Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.												Identifiable Pieces are Cement, Fragme	
us waste.	All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.										All visual asbestos pieces need to be removed leaving only fibres (or micro piece			

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.												If cells below turn yellow and the text tur	
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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r "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the t

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323197 Coop Smithies Moor

TP/WS/BH															
Depth (m)															
Envirolab reference															
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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ɪr "#DIV/0!". Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". Please enter available data in the rows associated with the t

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323197 Coop Smithies Moor														
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
% Moisture	%													
pH (soil)														
pH (leachate)														
Arsenic	mg/kg													
Cadmium	mg/kg													
Copper	mg/kg													
CrVI or Chromium	mg/kg													
Lead	mg/kg													
Mercury	mg/kg													
Nickel	mg/kg													
Selenium	mg/kg													
Zinc	mg/kg													
Barium	mg/kg													
Beryllium	mg/kg													
Vanadium	mg/kg													
Cobalt	mg/kg													
Manganese	mg/kg													
Molybdenum	mg/kg													
Antimony	mg/kg													
Aluminium	mg/kg													
Bismuth	mg/kg													
CrIII	mg/kg													
Iron	mg/kg													
Strontium	mg/kg													
Tellurium	mg/kg													
Thallium	mg/kg													
Titanium	mg/kg													
Tungsten	mg/kg													
Ammoniacal N	mg/kg													
ws Boron	mg/kg													
PAH (Input Total PAH **OR** individual PAH results)														
Acenaphthene	mg/kg													
Acenaphthylene	mg/kg													
Anthracene	mg/kg													
Benzo(a)anthracene	mg/kg													
Benzo(a)pyrene	mg/kg													
Benzo(b)fluoranthene	mg/kg													
Benzo(ghi)perylene	mg/kg													
Benzo(k)fluoranthene	mg/kg													
Chrysene	mg/kg													
Dibenzo(ah)anthracene	mg/kg													
Fluoranthene	mg/kg													
Fluorene	mg/kg													
Indeno(123cd)pyrene	mg/kg													
Naphthalene	mg/kg													
Phenanthrene	mg/kg													
Pyrene	mg/kg													
Coronene	mg/kg													
Total PAHs (16 or 17)	mg/kg													
TPH														
Petrol	mg/kg													
Diesel	mg/kg													
Lube Oil	mg/kg													
Crude Oil	mg/kg													
White Spirit / Kerosene	mg/kg													



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TP/WS/BH															
Depth (m)															
Envirolab reference															
Creosote	mg/kg														
Unknown TPH with ID	mg/kg														
Unknown TPHCWG	mg/kg														
Total Sulphide	mg/kg														
Complex Cyanide	mg/kg														
Free (or Total) Cyanide	mg/kg														
Thiocyanate	mg/kg														
Elemental/Free Sulphur	mg/kg														
Phenols Input Total Phenols HPLC **OR** individual Phenol results.															
Phenol	mg/kg														
Cresols	mg/kg														
Xylenols	mg/kg														
Resourcinol	mg/kg														
Phenols Total by HPLC	mg/kg														
BTEX Input Total BTEX **OR** individual BTEX results.															
Benzene	mg/kg														
Toluene	mg/kg														
Ethylbenzene	mg/kg														
Xylenes	mg/kg														
Total BTEX	mg/kg														
PCBs (POPs)															
PCBs Total (eg EC7/WHO12)	mg/kg														
PBBs (POPs)															
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg														

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TP/WS/BH														
Depth (m)														
Envirolab reference														
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.														
2,3,7,8-TeCDD	mg/kg													
1,2,3,7,8-PeCDD	mg/kg													
1,2,3,4,7,8-HxCDD	mg/kg													
1,2,3,6,7,8-HxCDD	mg/kg													
1,2,3,7,8,9-HxCDD	mg/kg													
1,2,3,4,6,7,8-HpCDD	mg/kg													
OCDD	mg/kg													
2,3,7,8-TeCDF	mg/kg													
1,2,3,7,8-PeCDF	mg/kg													
2,3,4,7,8-PeCDF	mg/kg													
1,2,3,4,7,8-HxCDF	mg/kg													
1,2,3,6,7,8-HxCDF	mg/kg													
2,3,4,6,7,8-HxCDF	mg/kg													
1,2,3,7,8,9-HxCDF	mg/kg													
1,2,3,4,6,7,8-HpCDF	mg/kg													
1,2,3,4,7,8,9-HpCDF	mg/kg													
OCDF	mg/kg													
Total Dioxins and Furans	mg/kg													
Some Pesticides (POPs unless otherwise stated)														
Aldrin	mg/kg													
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg													
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg													
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg													
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg													
Dieldrin	mg/kg													
Endrin	mg/kg													
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg													
Heptachlor	mg/kg													
Hexachlorobenzene	mg/kg													
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg													
p,p'-DDT ***OR*** *Total DDT*	mg/kg													
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg													
Chlordecone (kepone)	mg/kg													
Pentachlorobenzene	mg/kg													
Mirex	mg/kg													
Toxaphene (camphechlor)	mg/kg													
Tin														



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TP/WS/BH														
Depth (m)														
Envirolab reference														
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg													
Organotin														
Dibutyltin; DiBT	mg/kg													
Tributyltin; TriBT	mg/kg													
Triphenyltin; TriPT	mg/kg													
Tetrabutyltin; TeBT	mg/kg													
Tin excluding Organotin														
Tin excl Organotin	mg/kg													

envirolab

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TP/WS/BH														
Depth (m)														
Envirolab reference														
Asbestos in Soil	Thresholds													
Asbestos detected in Soil (enter Y or N)	Y													
		s "Y", the soil is Hazardous Waste HP5 and HP7								If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7				
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below													
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.														
		ı Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use when visual identifiable pieces are present.				If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y													
		ıd the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. ', but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.				If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.								
		nts, Board, Rope etc. ie anything ACM that is not Loose Fibres.				Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.								
		s) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.				All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.								
Hazardous Property	Thresholds	Cut Off Value	ns red, the samples should be classified as Hazardous Waste.											
Corrosive HP8	≥5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥10%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Irritant HP4	≥20%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥25%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥2.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥3.5%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥22.5%	<1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7	≥0.1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



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323197 Coop Smithies Moor

TP/WS/BH														
Depth (m)														
Envirolab reference														
Carcinogenic HP7	≥0.1%	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toxic for Reproduction HP10	≥0.3%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Toxic for Reproduction HP10	≥3%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11	≥0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mutagenic HP11	≥1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



est (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
as NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

323197 Coop Smithies Moor

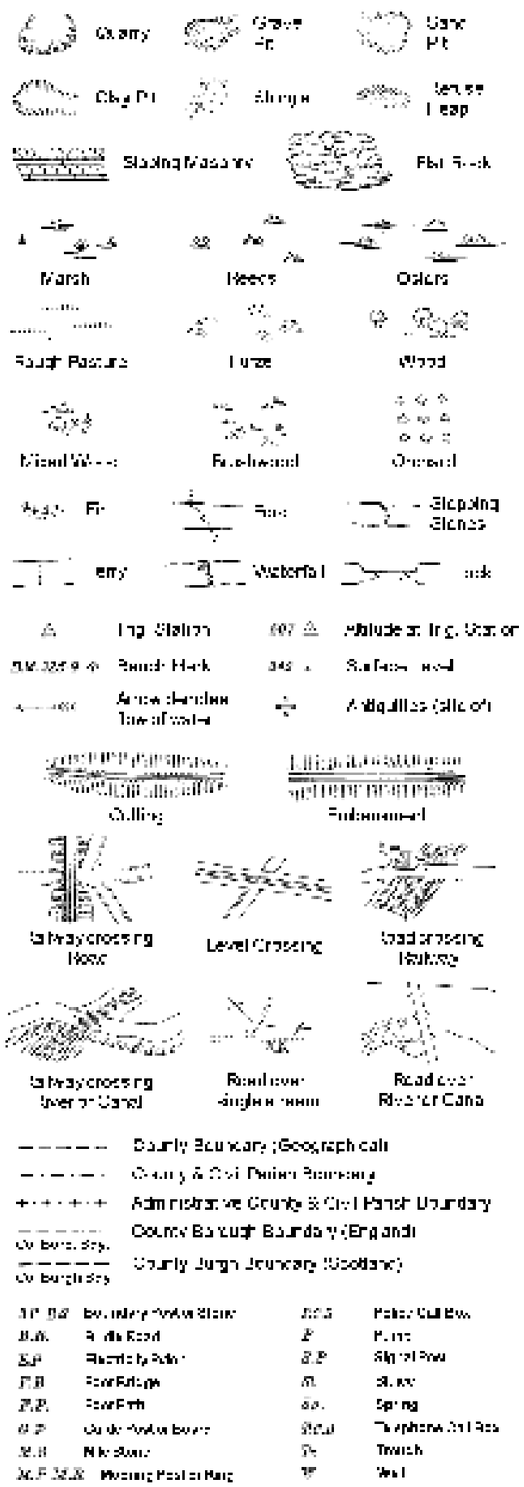
TP/WS/BH														
Depth (m)														
Envirolab reference														
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please conta

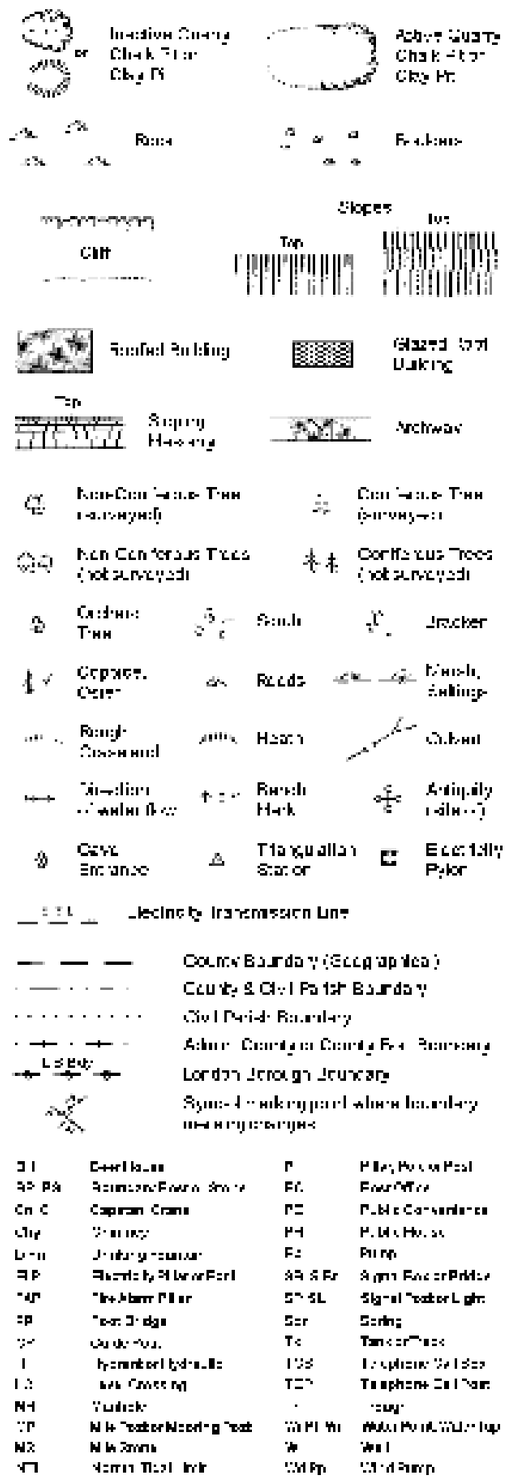
Appendix O
ENVIROCHECK REPORT

Historical Mapping Legends

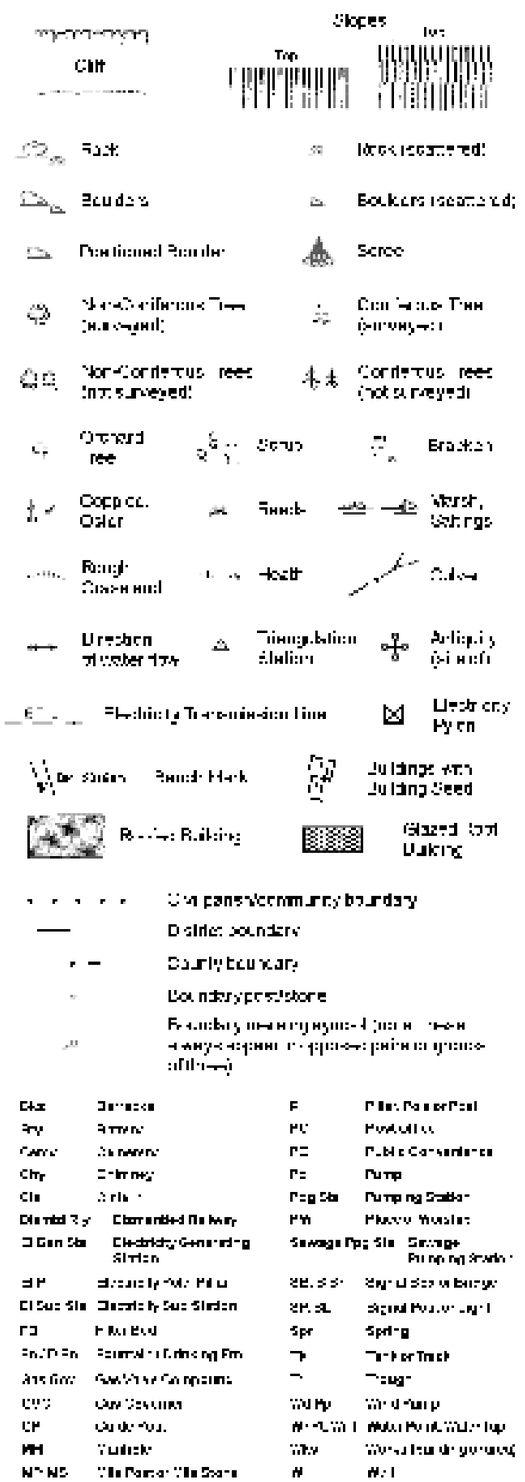
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



Large-Scale National Grid Data 1:2,500 and 1:1,250

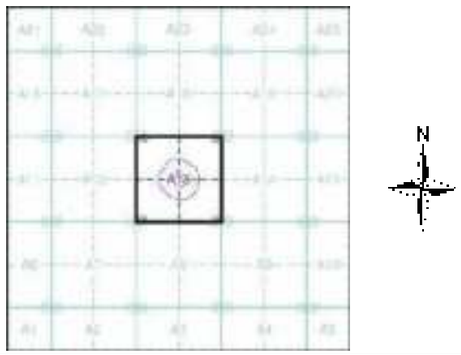


RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1894	2
Yorkshire	1:2,500	1907	3
Yorkshire	1:2,500	1922	4
Yorkshire	1:2,500	1938	5
Ordnance Survey Plan	1:1,250	1956	6
Ordnance Survey Plan	1:2,500	1956	7
Additional SIMs	1:1,250	1956 - 1978	8
Ordnance Survey Plan	1:1,250	1964 - 1968	9
Ordnance Survey Plan	1:1,250	1967	10
Ordnance Survey Plan	1:2,500	1968 - 1970	11
Additional SIMs	1:1,250	1980 - 1988	12
Large-Scale National Grid Data	1:1,250	1992 - 1993	13

Historical Map - Segment A13



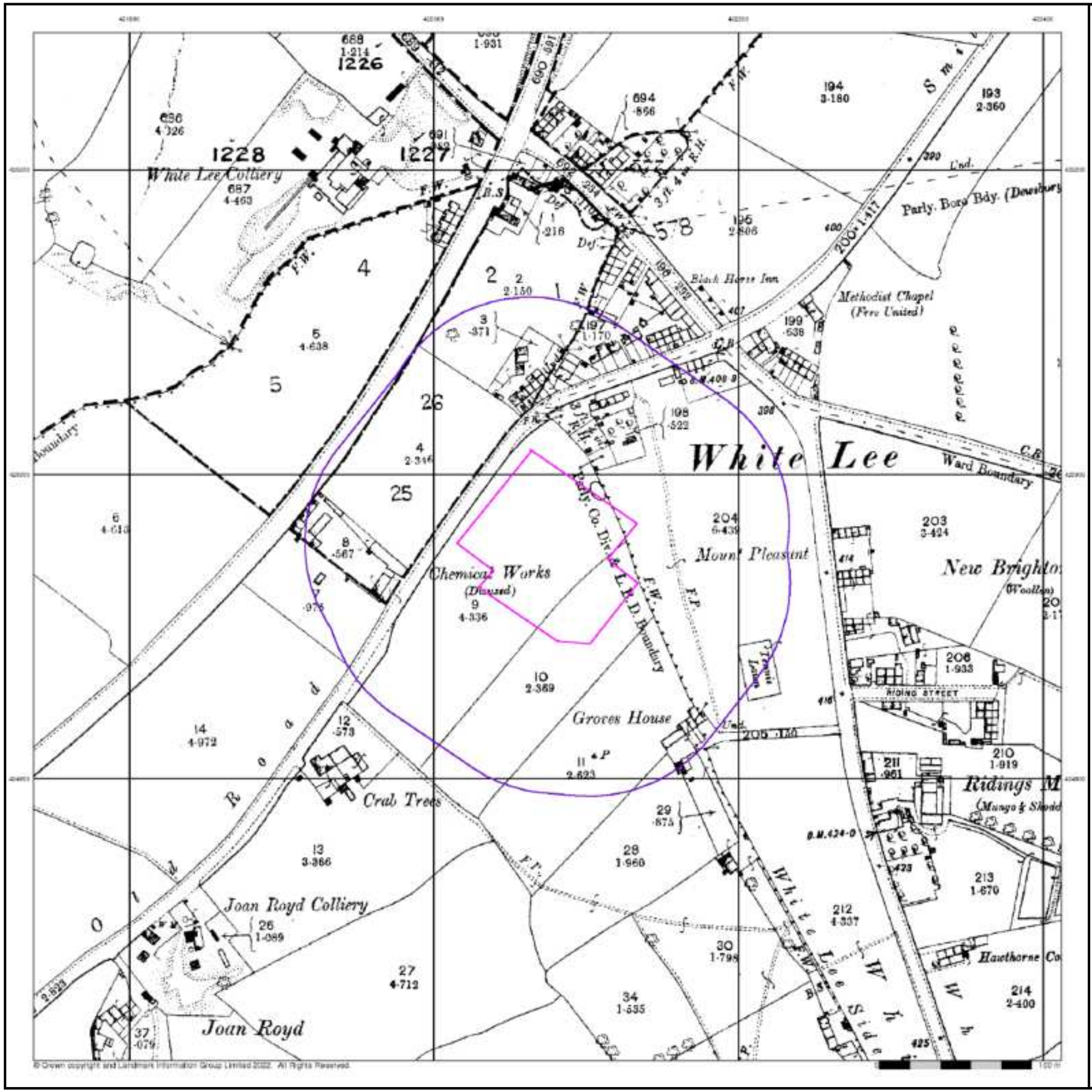
Order Details

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Customer Ref: 350555
National Grid Reference: 422080, 424950
Slice: A
Site Area (Ha): 0.89
Search Buffer (m): 100

Site Details

Co-Op Academy Smithies Moor, Leeds Old Road, HECKMONDWIKE, WF16 9BB

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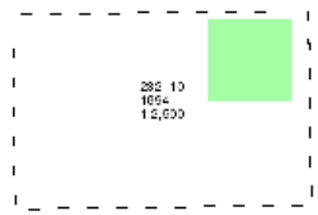
Yorkshire

Published 1894

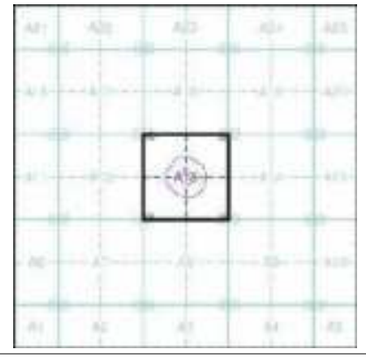
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

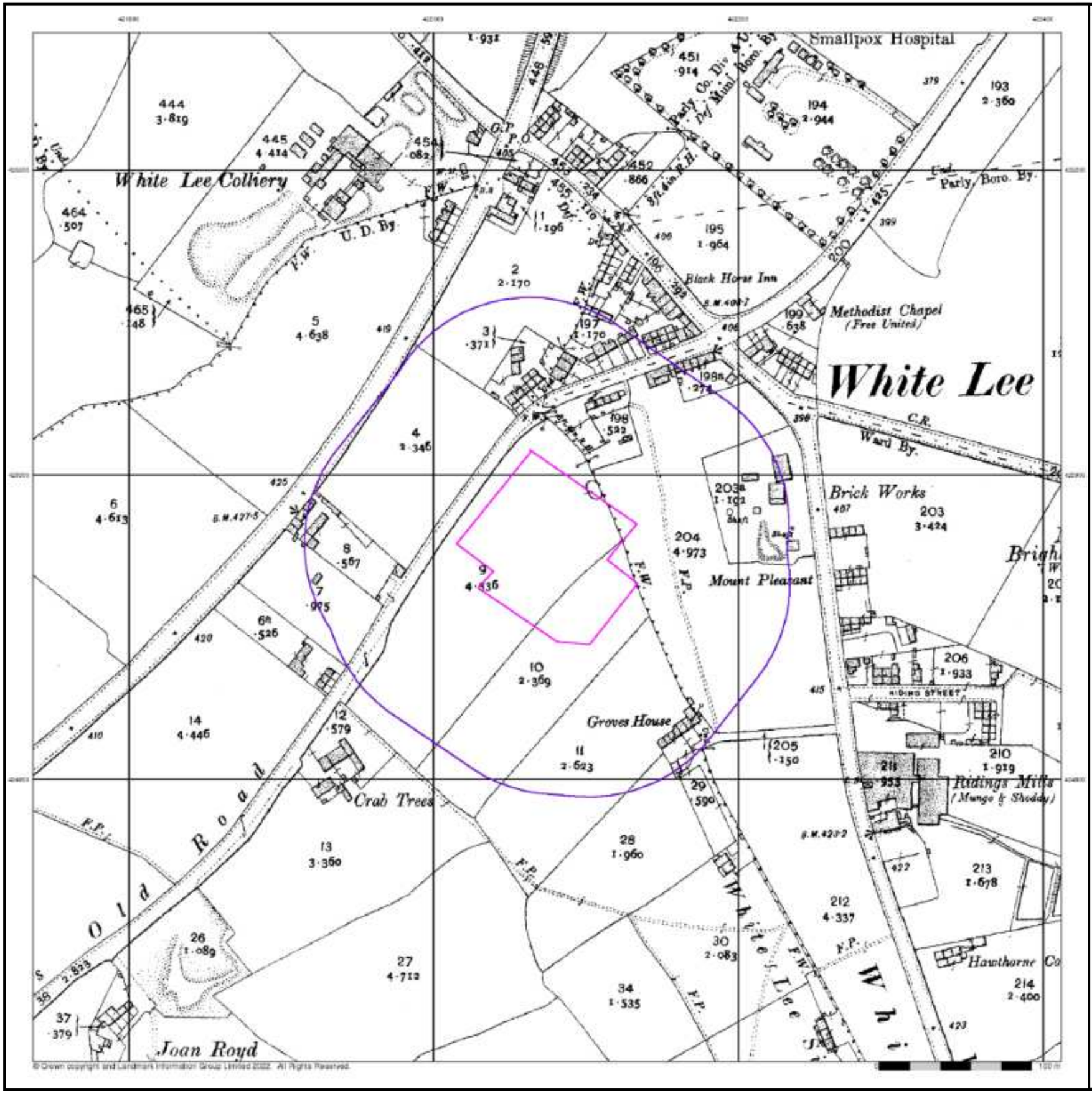


Order Details

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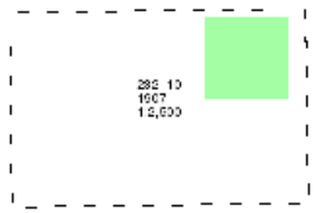
Yorkshire

Published 1907

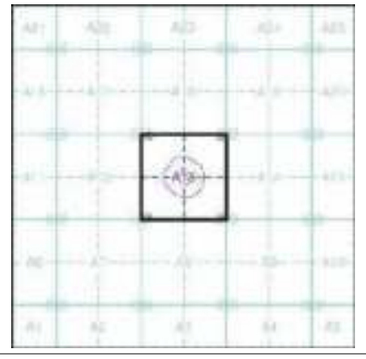
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



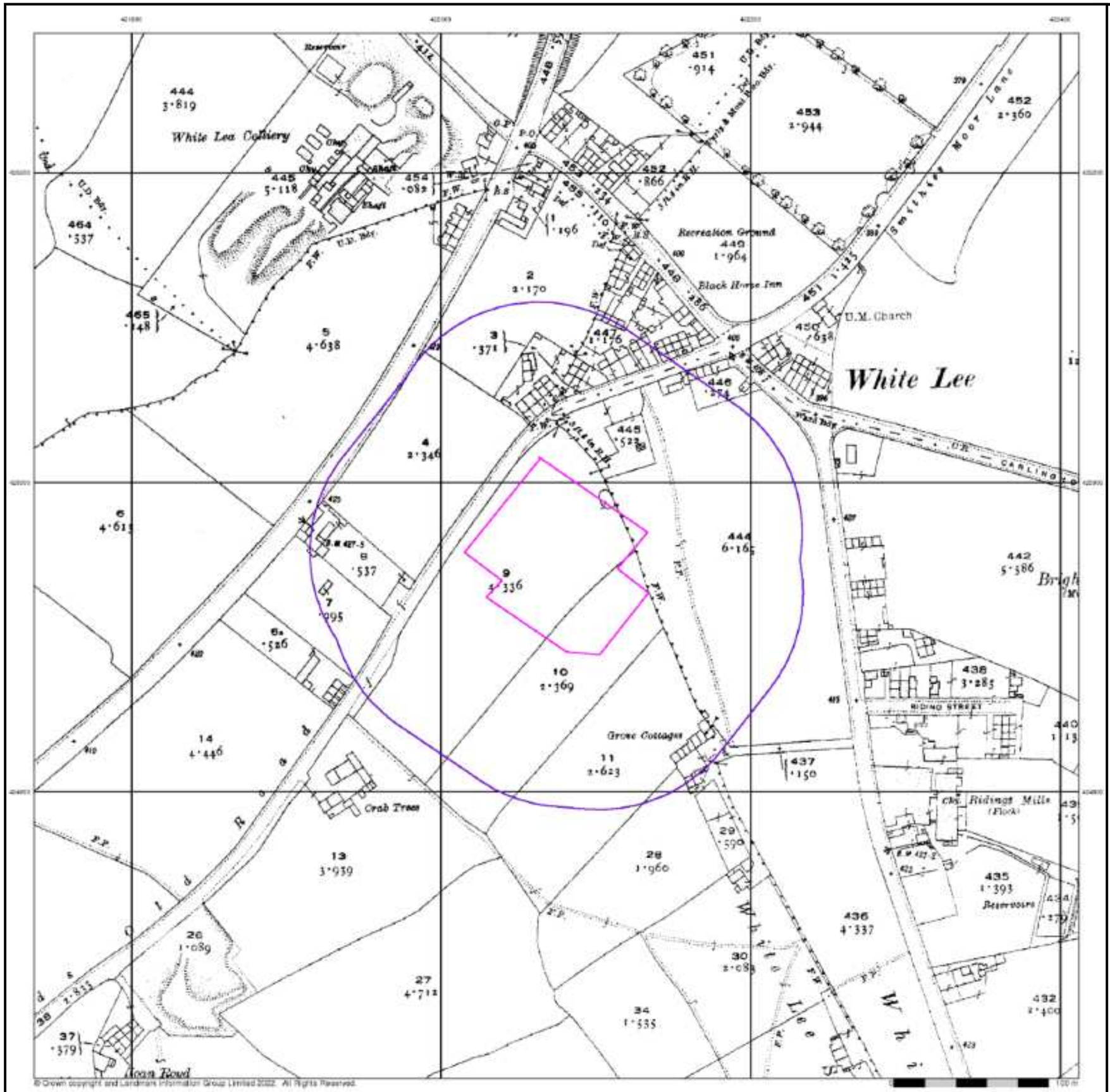
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Co-Op Academy Smithies Moor, Leeds Old Road, HECKMONDWIKE, WF16 9BB

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Web: www.envirocheck.co.uk



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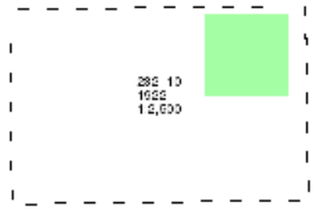
Yorkshire

Published 1922

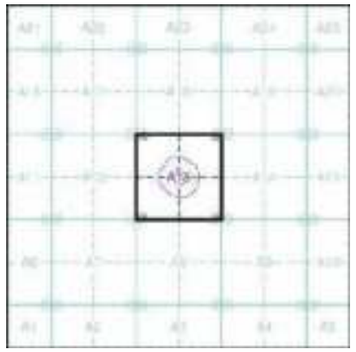
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



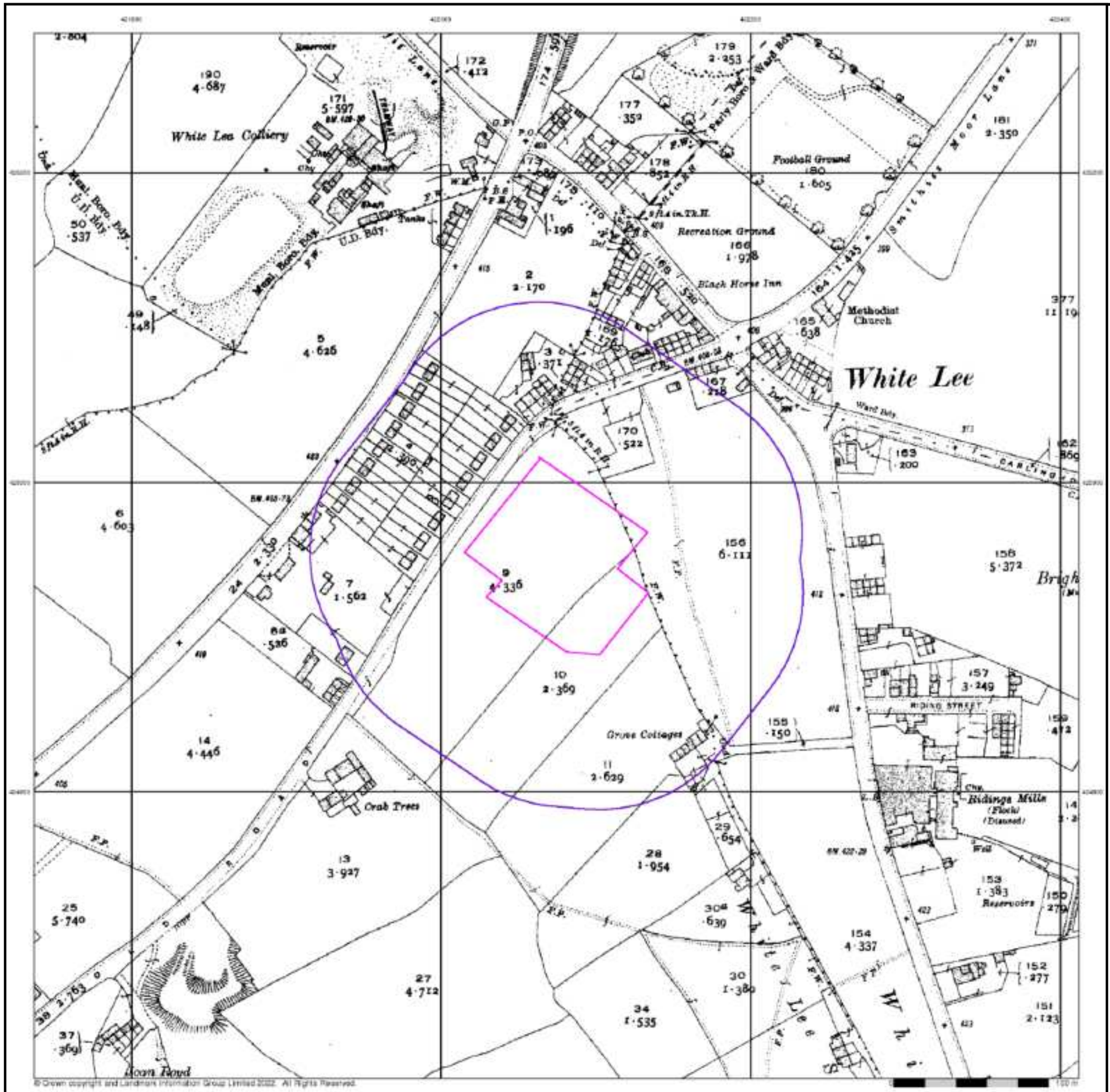
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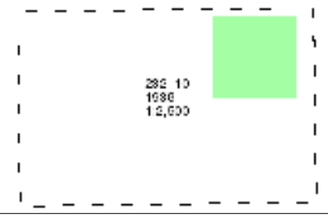
Yorkshire

Published 1938

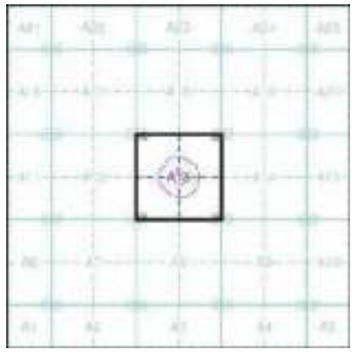
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

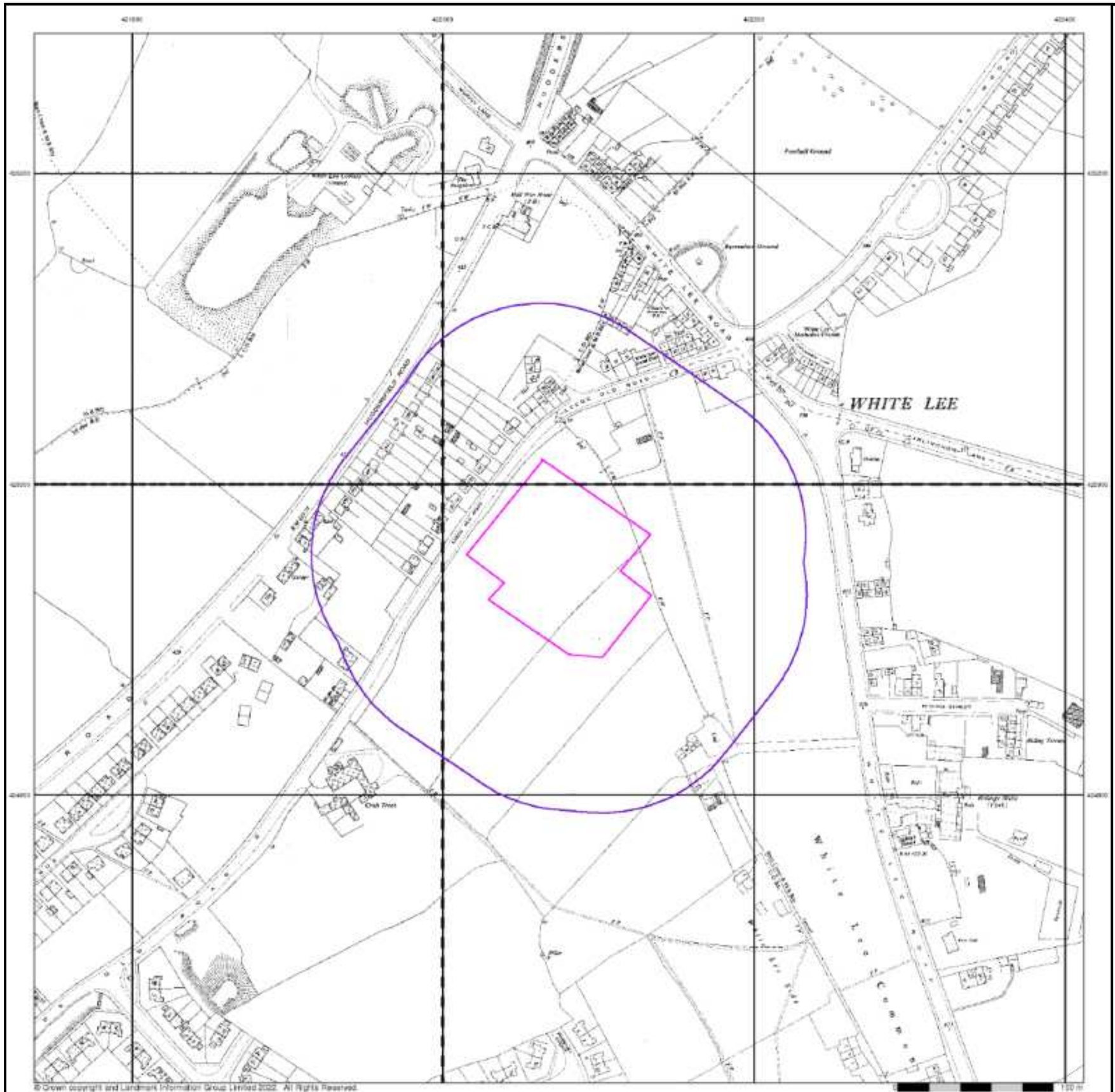


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Site Details

Co-Op Academy Smithies Moor, Leeds Old Road, HECKMONDWIKE, WF16 9BB



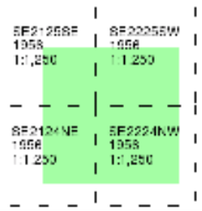
Ordnance Survey Plan

Published 1956

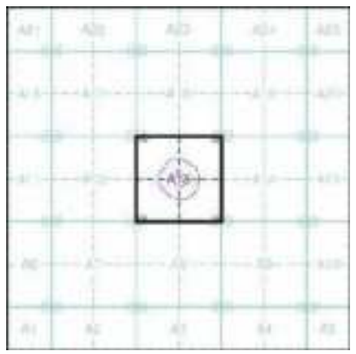
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



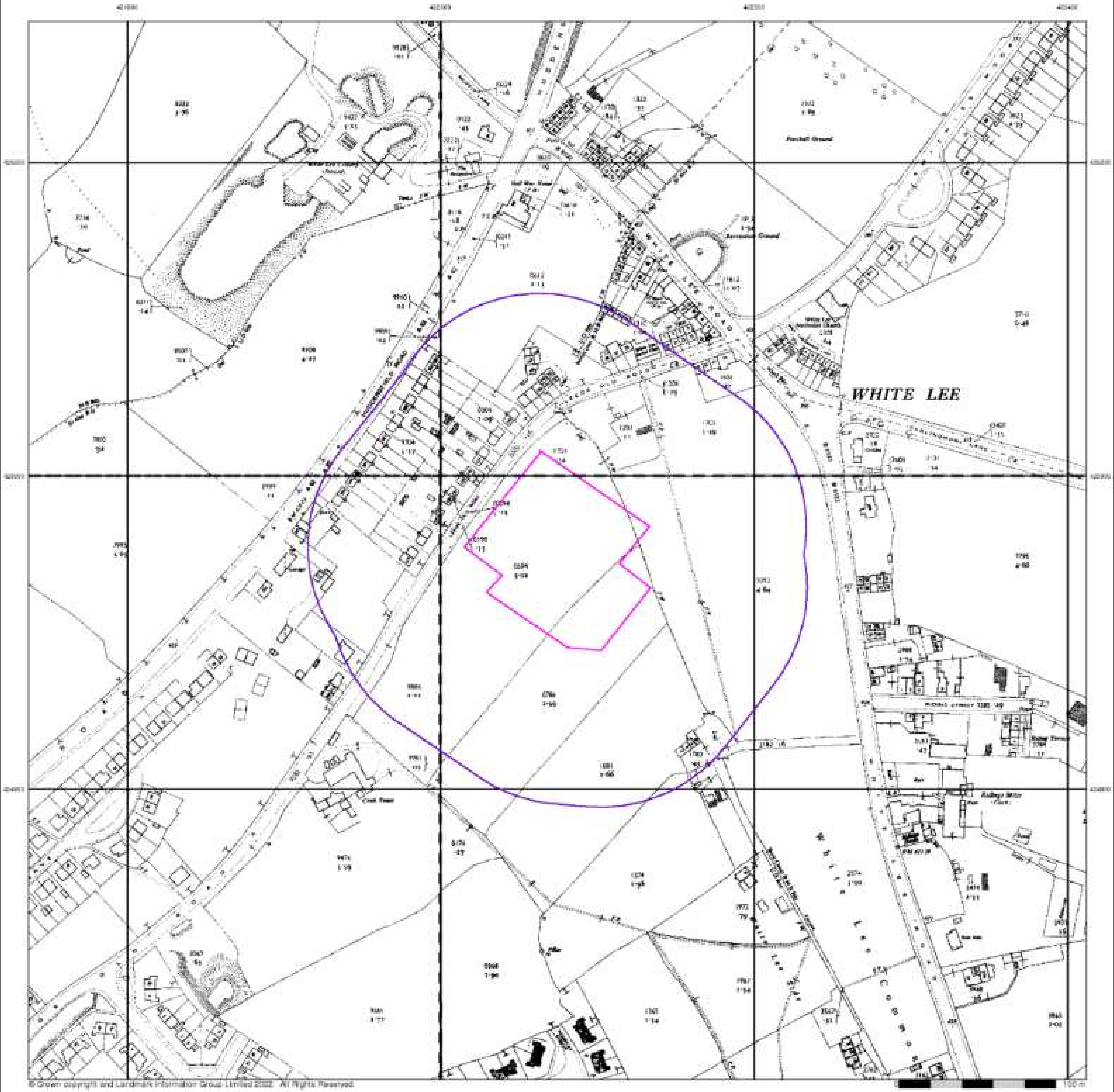
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Site Details

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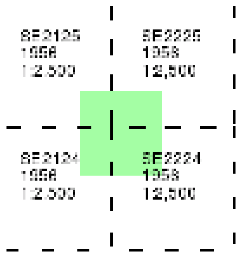
Ordnance Survey Plan

Published 1956

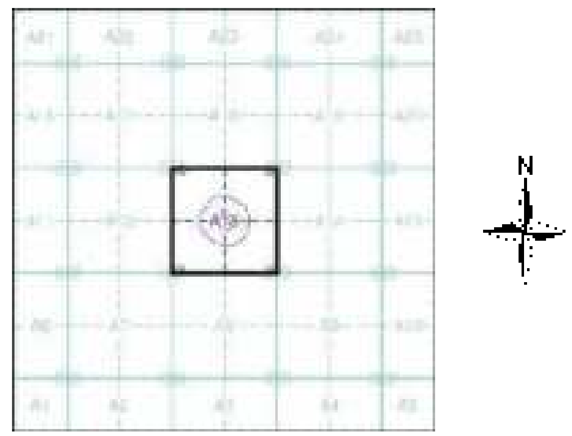
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

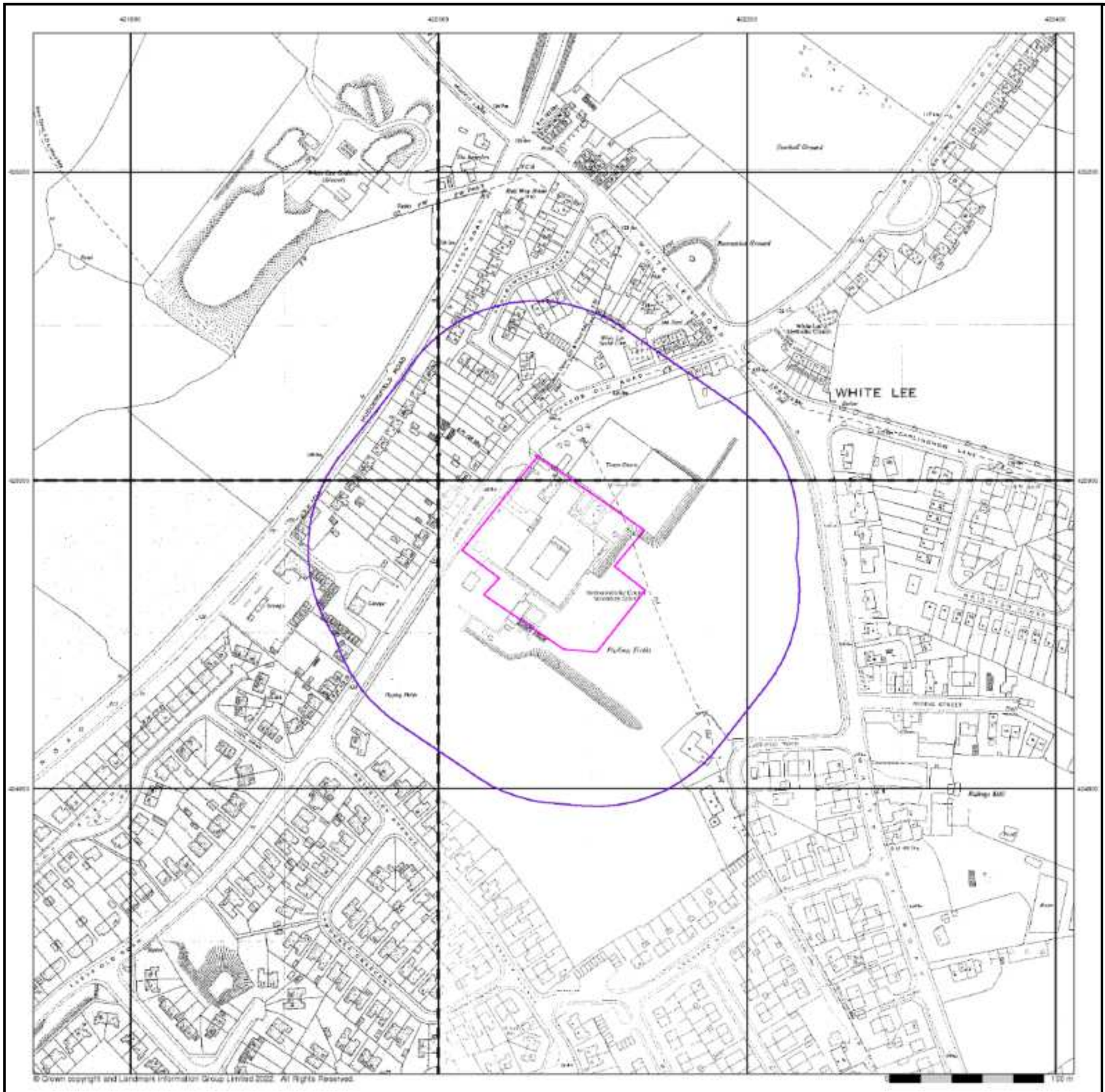
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Slice: A
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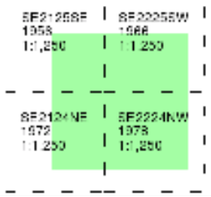
Additional SIMs

Published 1956 - 1978

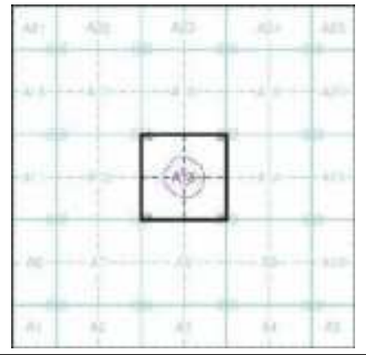
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

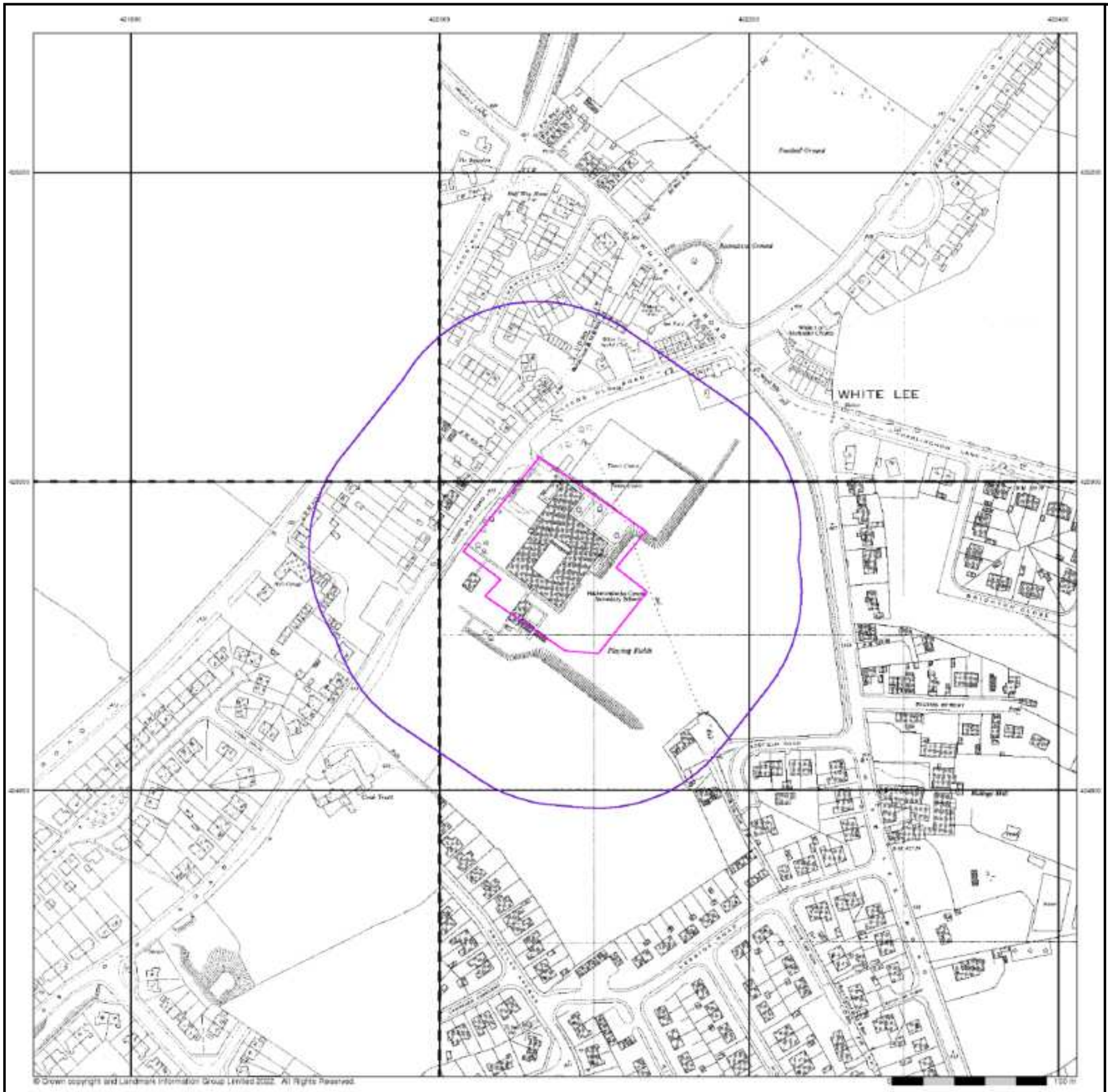


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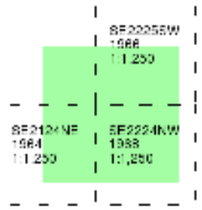
Ordnance Survey Plan

Published 1964 - 1968

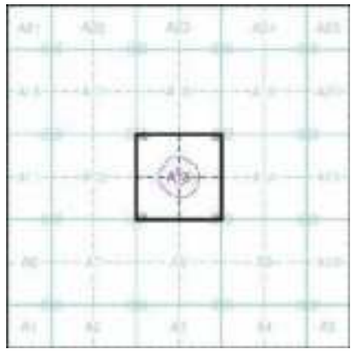
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



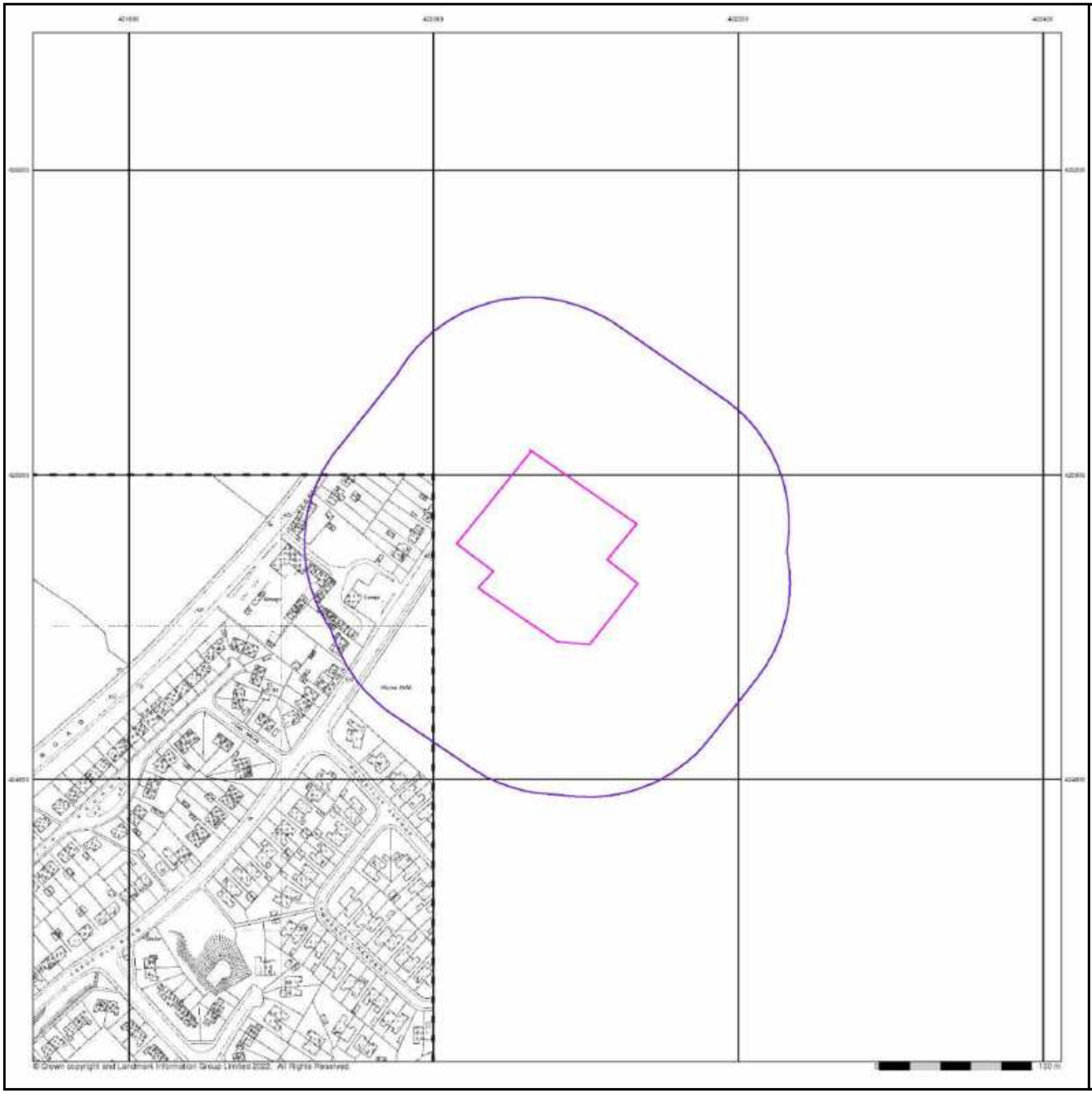
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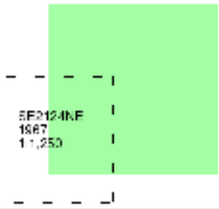
Ordnance Survey Plan

Published 1967

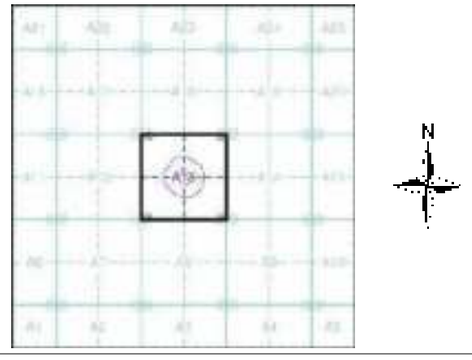
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

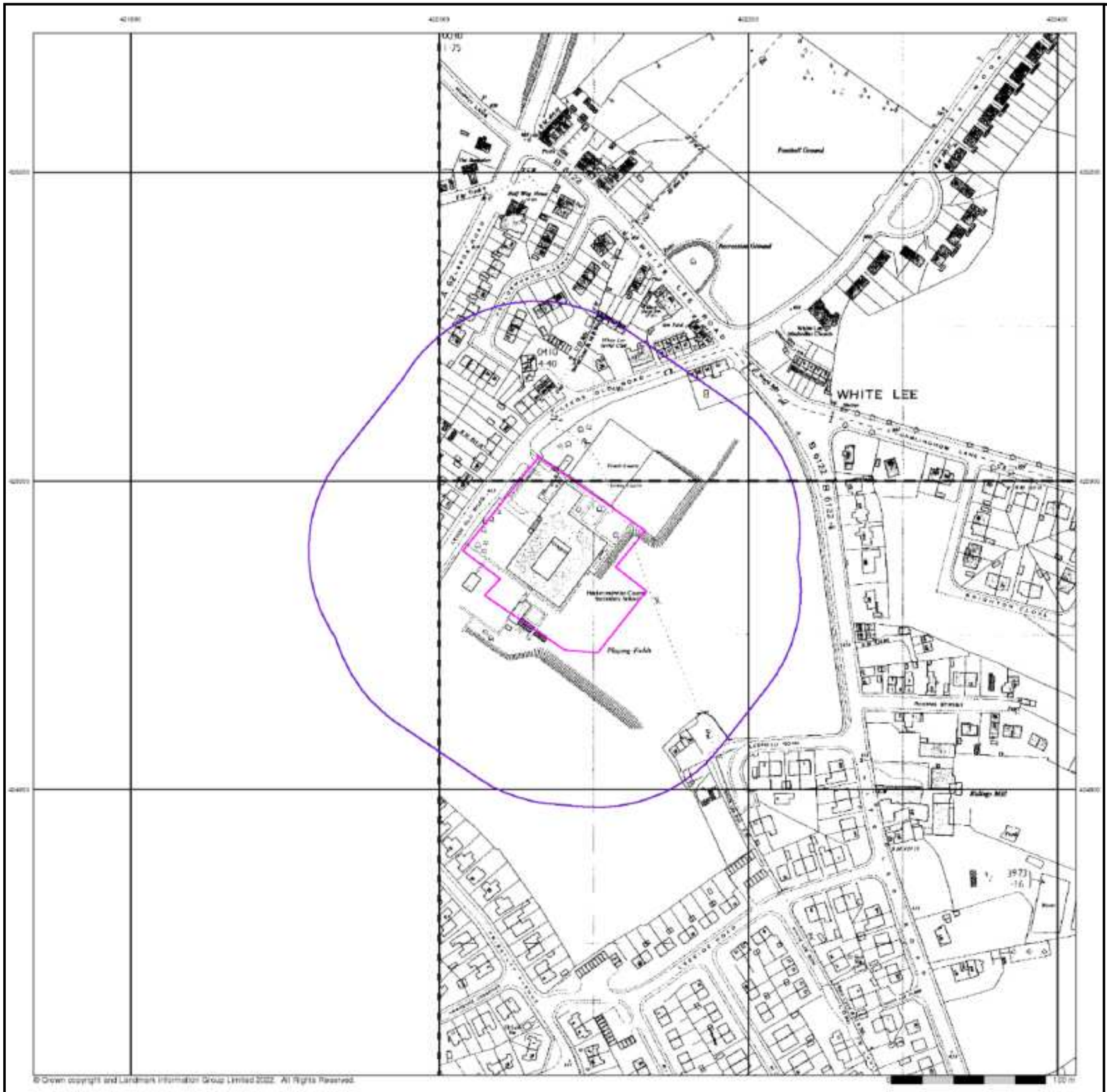
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Slice:	A
Site Area (Ha):	0.89
Search Buffer (m):	100

Site Details

Co-Op Academy Smithies Moor, Leeds Old Road, HECKMONDWIKE, WF16 9BB

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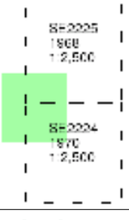
Ordnance Survey Plan

Published 1968 - 1970

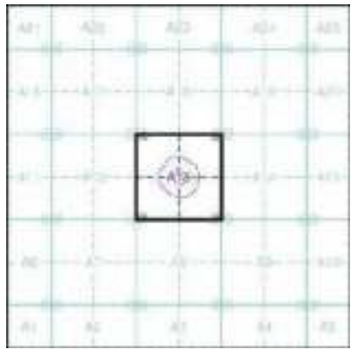
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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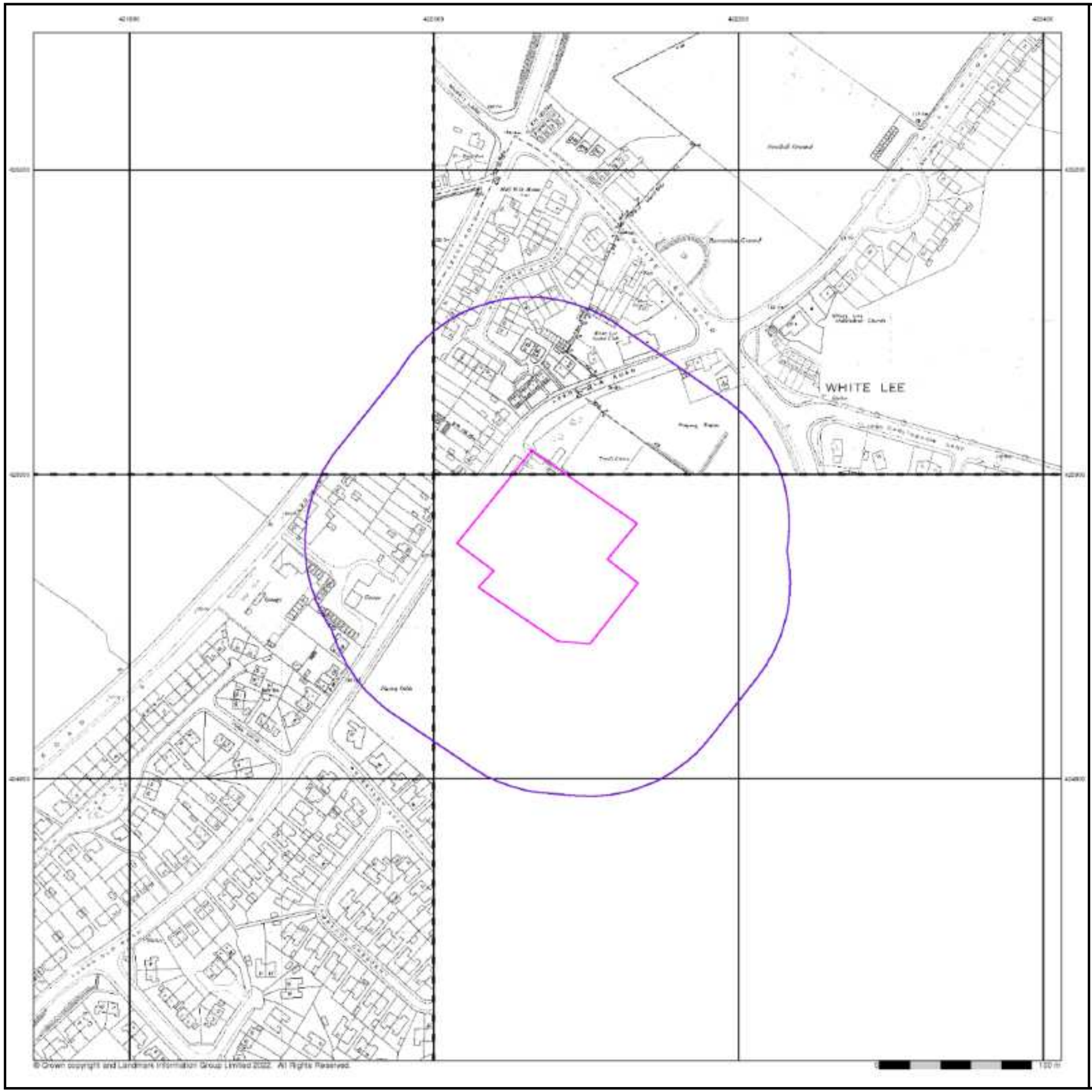
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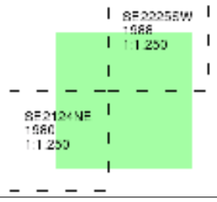
Additional SIMs

Published 1980 - 1988

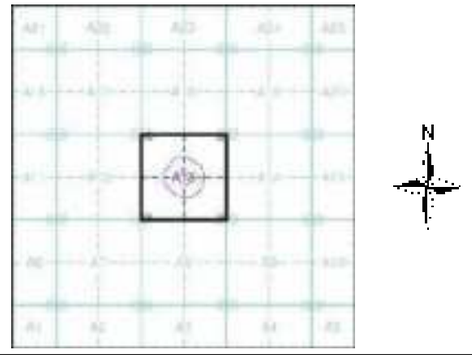
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

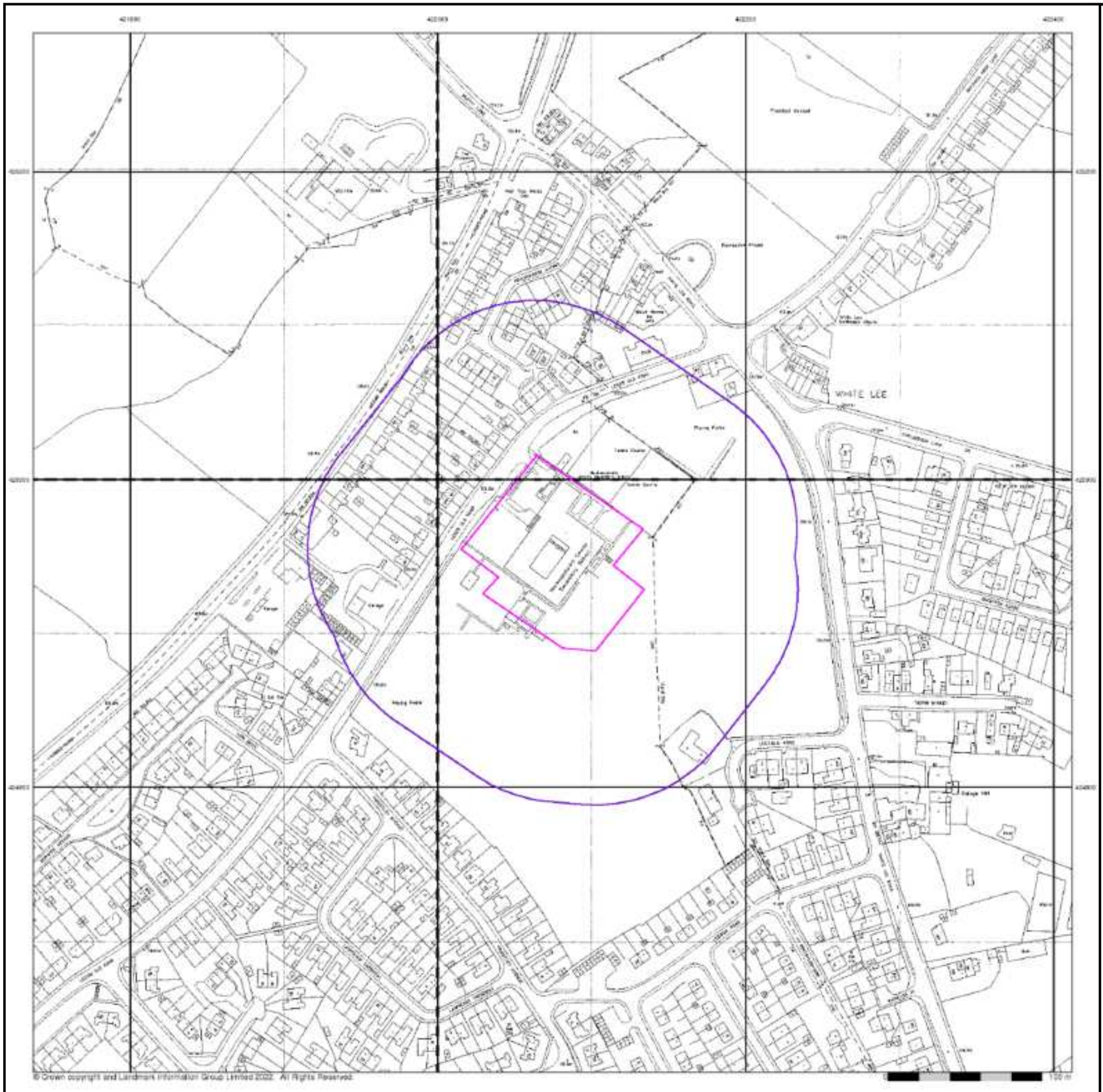


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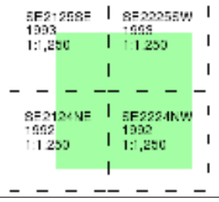
Large-Scale National Grid Data

Published 1992 - 1993

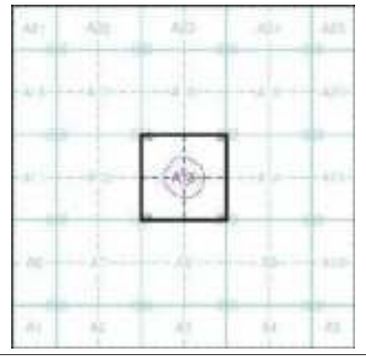
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

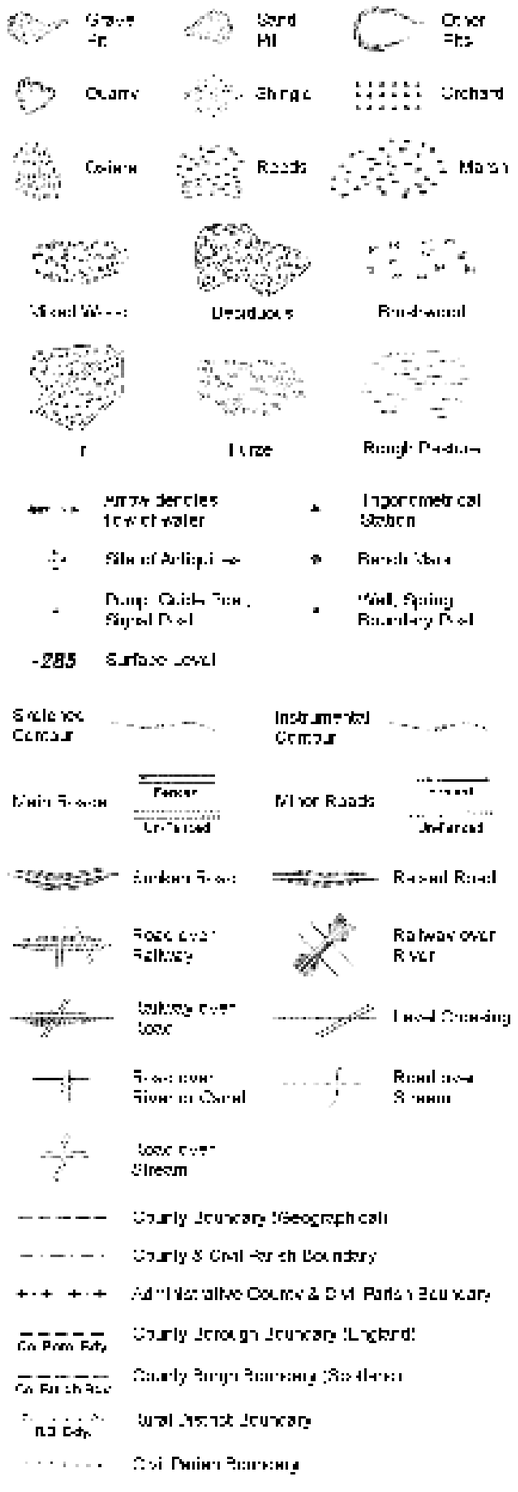
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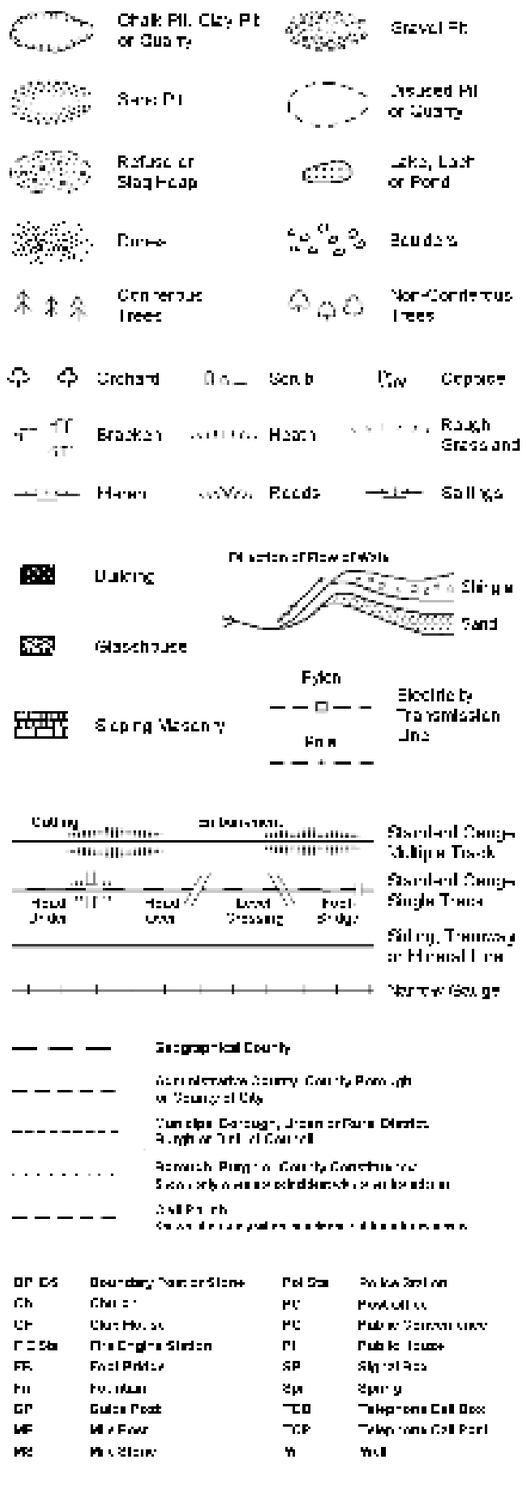
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping

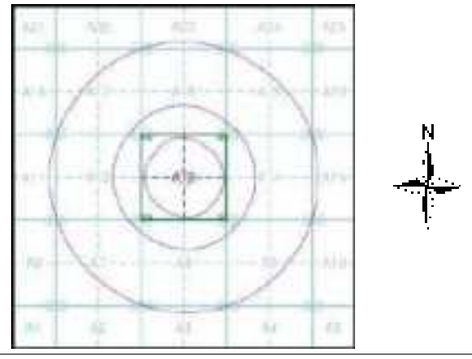


RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1894 - 1895	3
Yorkshire	1:10,560	1908	4
Yorkshire	1:10,560	1931 - 1932	5
Yorkshire	1:10,560	1938	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1966 - 1967	10
Ordnance Survey Plan	1:10,000	1974 - 1976	11
Ordnance Survey Plan	1:10,000	1983 - 1986	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1995	14
10K Raster Mapping	1:10,000	2000	15
Street View	Variable		16

Historical Map - Slice A



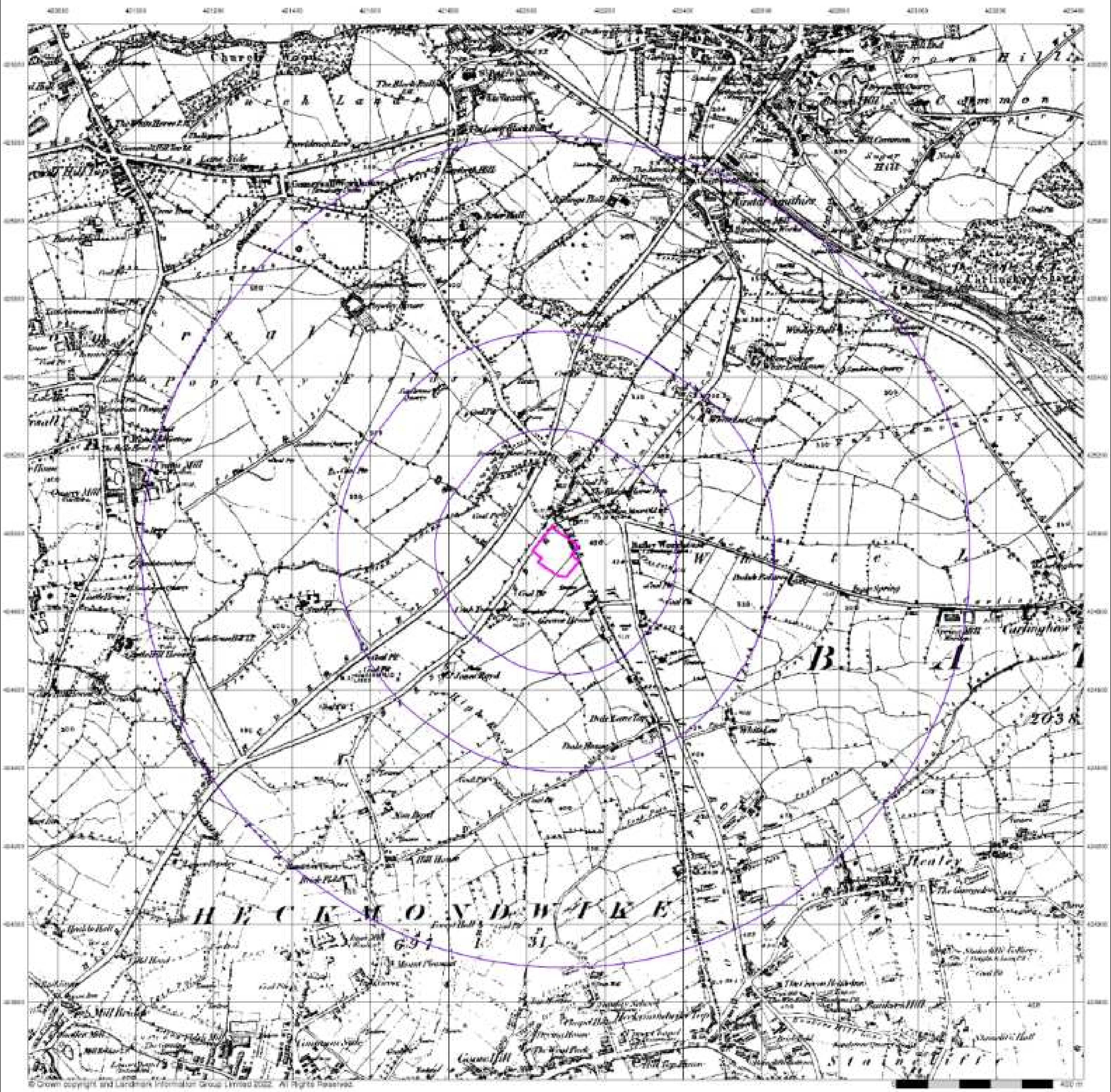
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Yorkshire

Published 1854

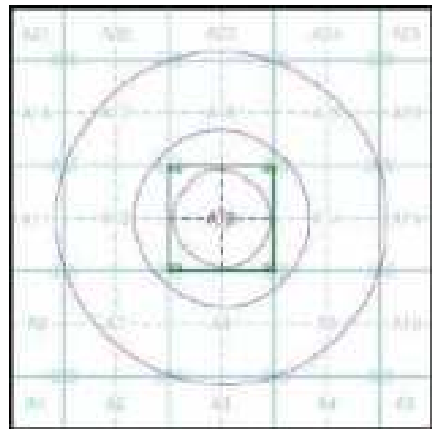
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

23230
1854
1:10,560

Historical Map - Slice A

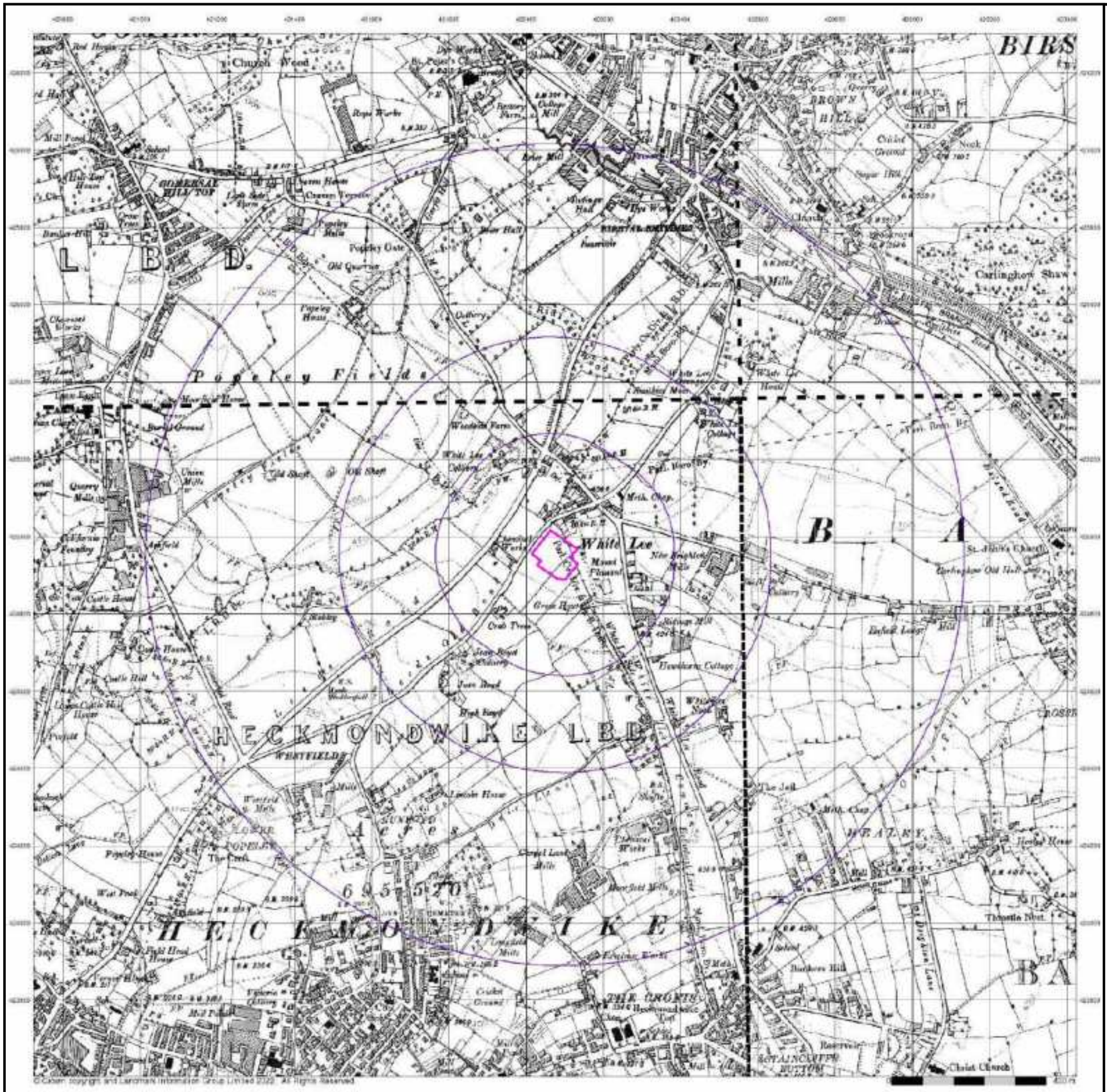


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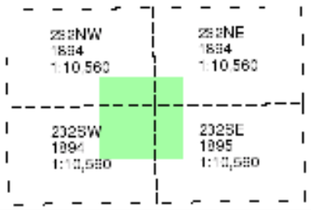
Yorkshire

Published 1894 - 1895

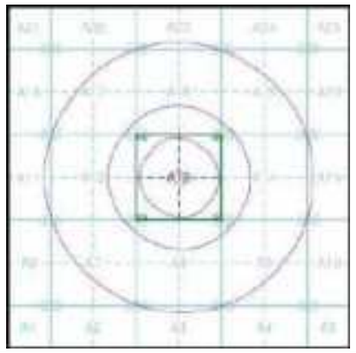
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

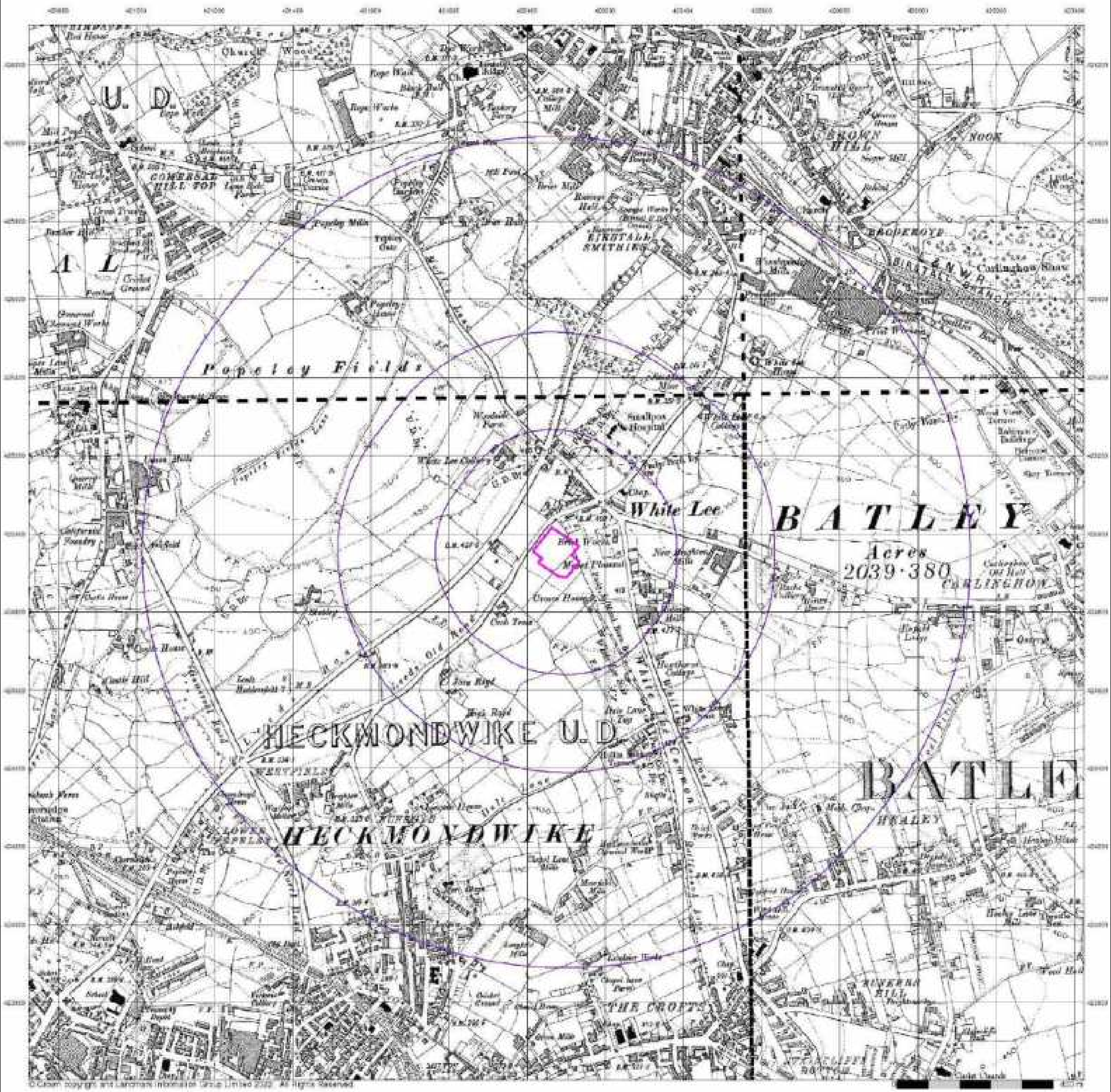
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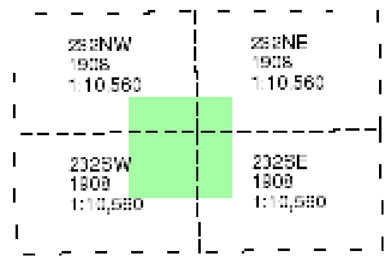
Yorkshire

Published 1908

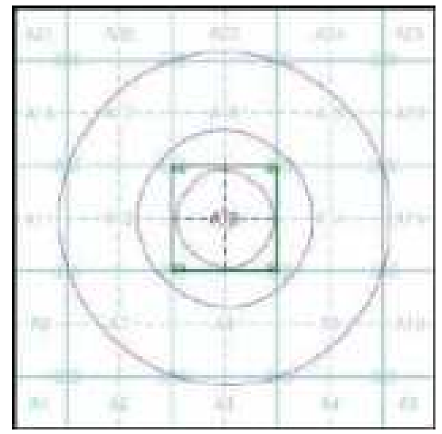
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



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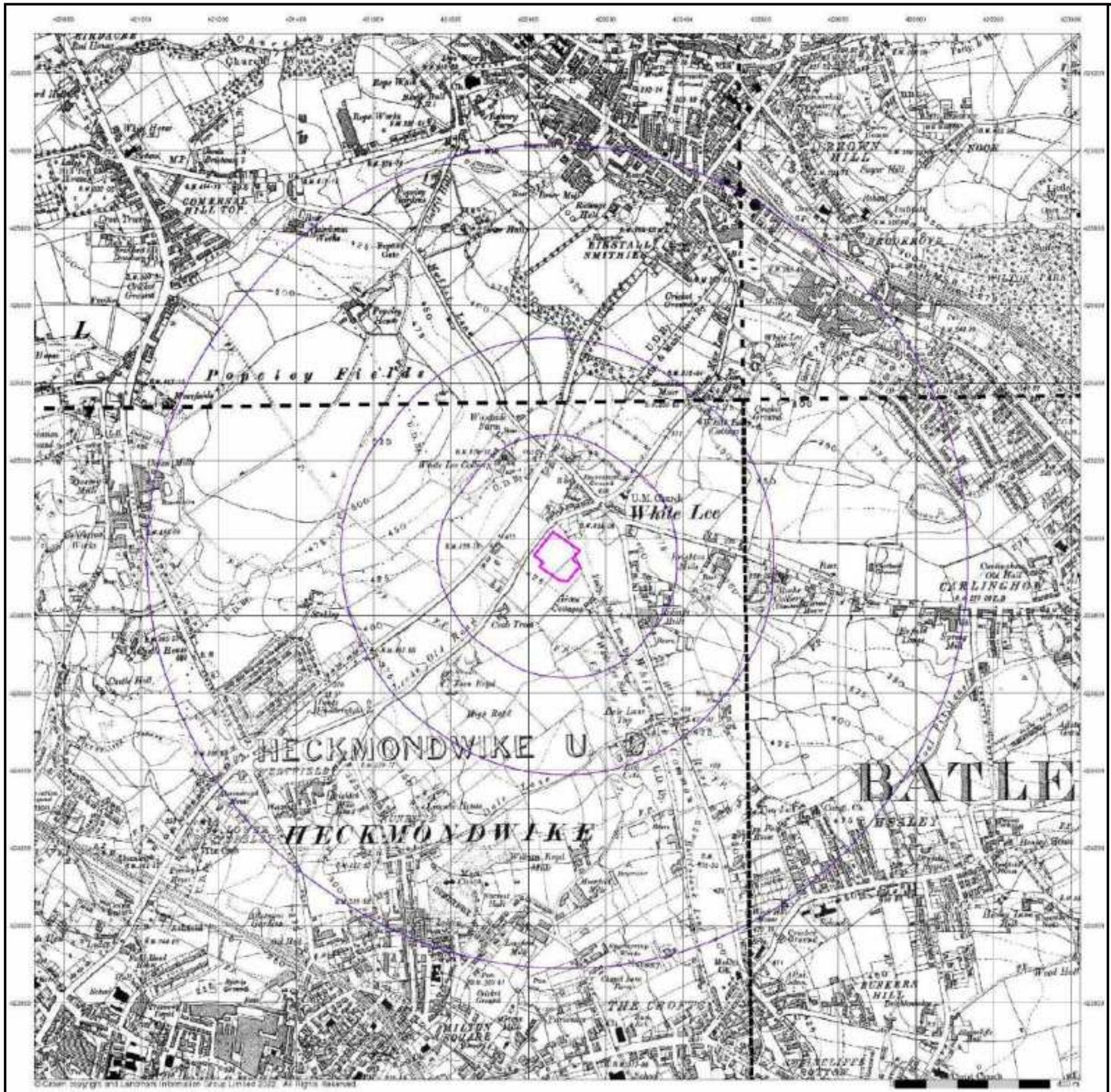
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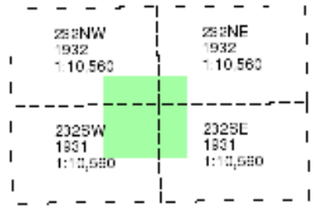
Yorkshire

Published 1931 - 1932

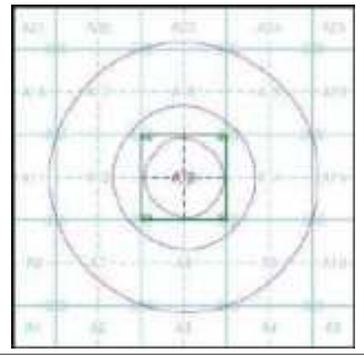
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Map Name(s) and Date(s)



Historical Map - Slice A

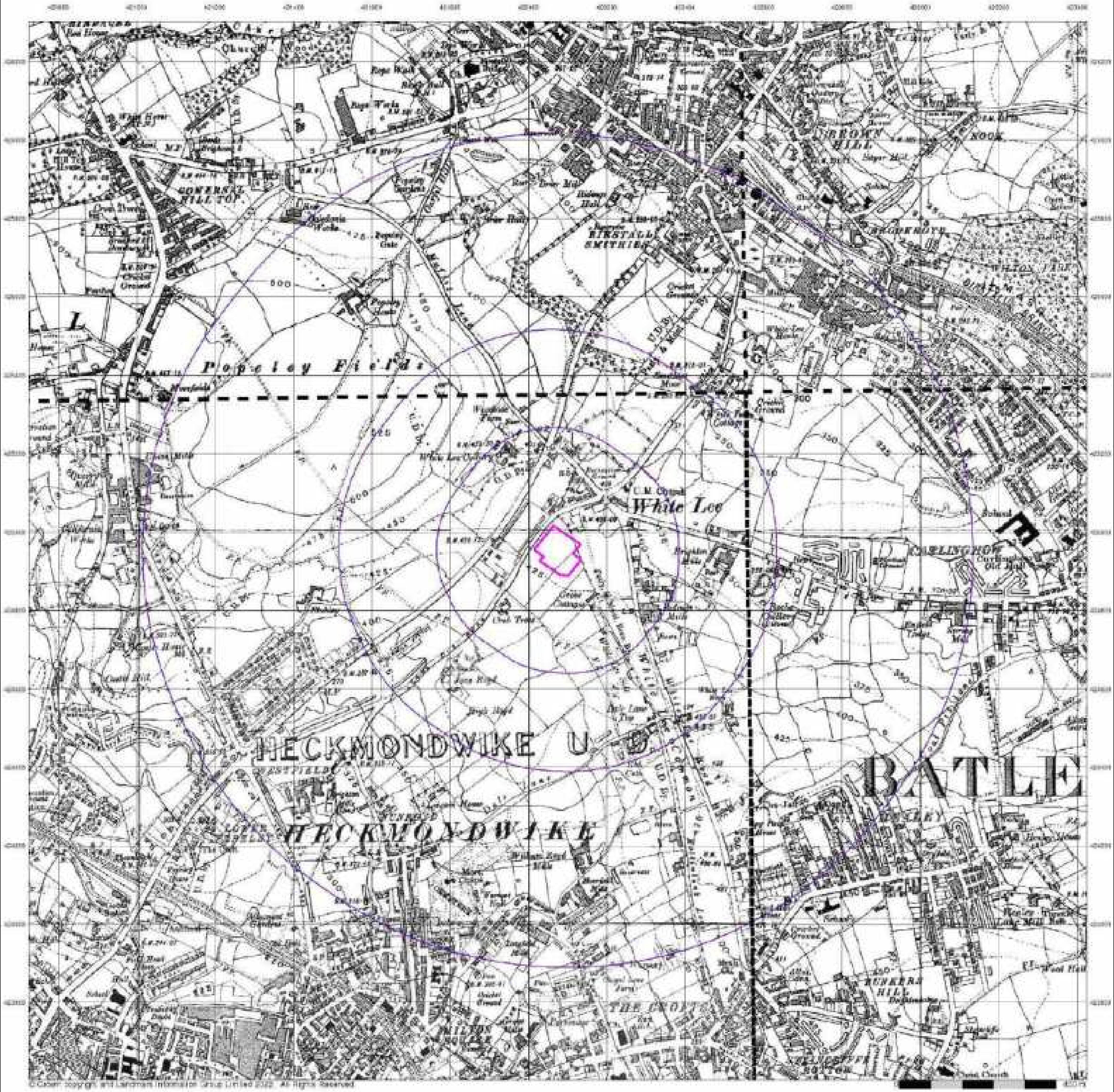


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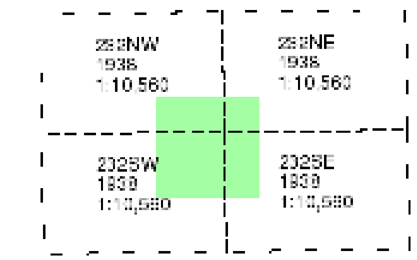
Yorkshire

Published 1938

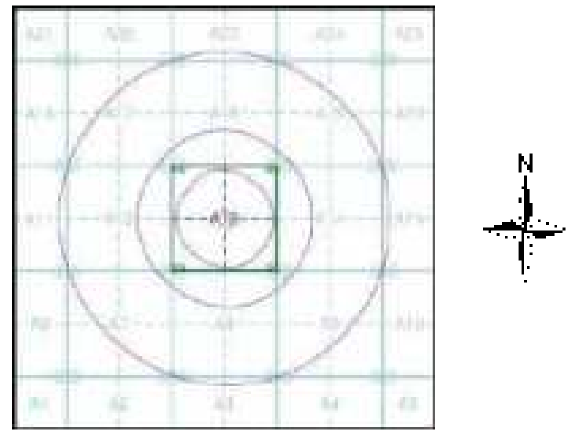
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Map Name(s) and Date(s)



Historical Map - Slice A



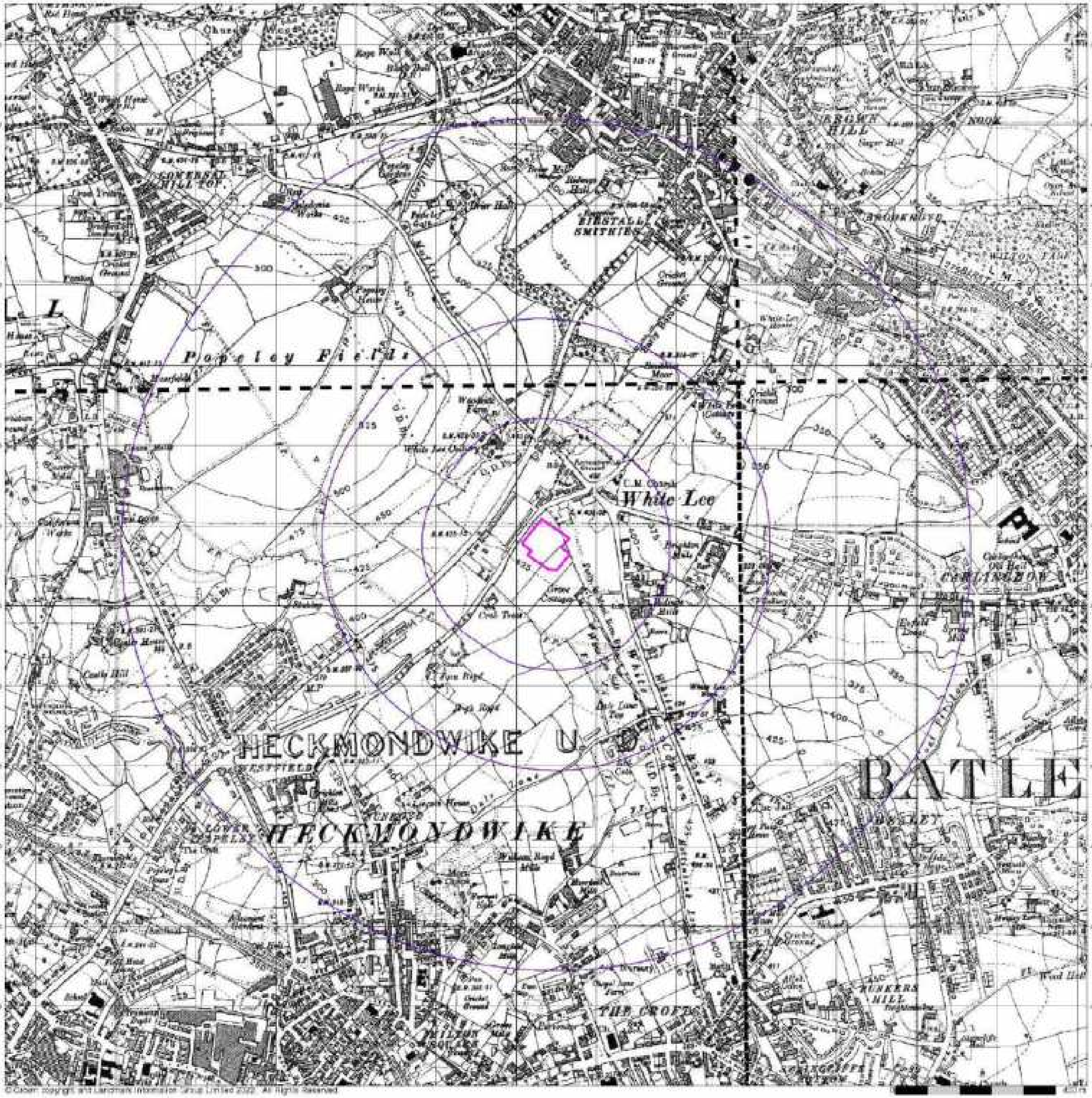
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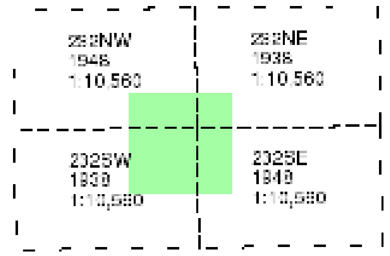
Yorkshire

Published 1938 - 1948

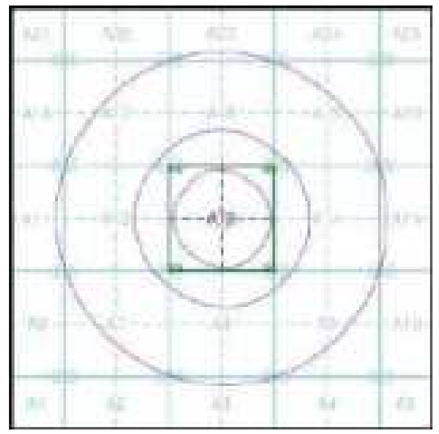
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Map Name(s) and Date(s)



Historical Map - Slice A



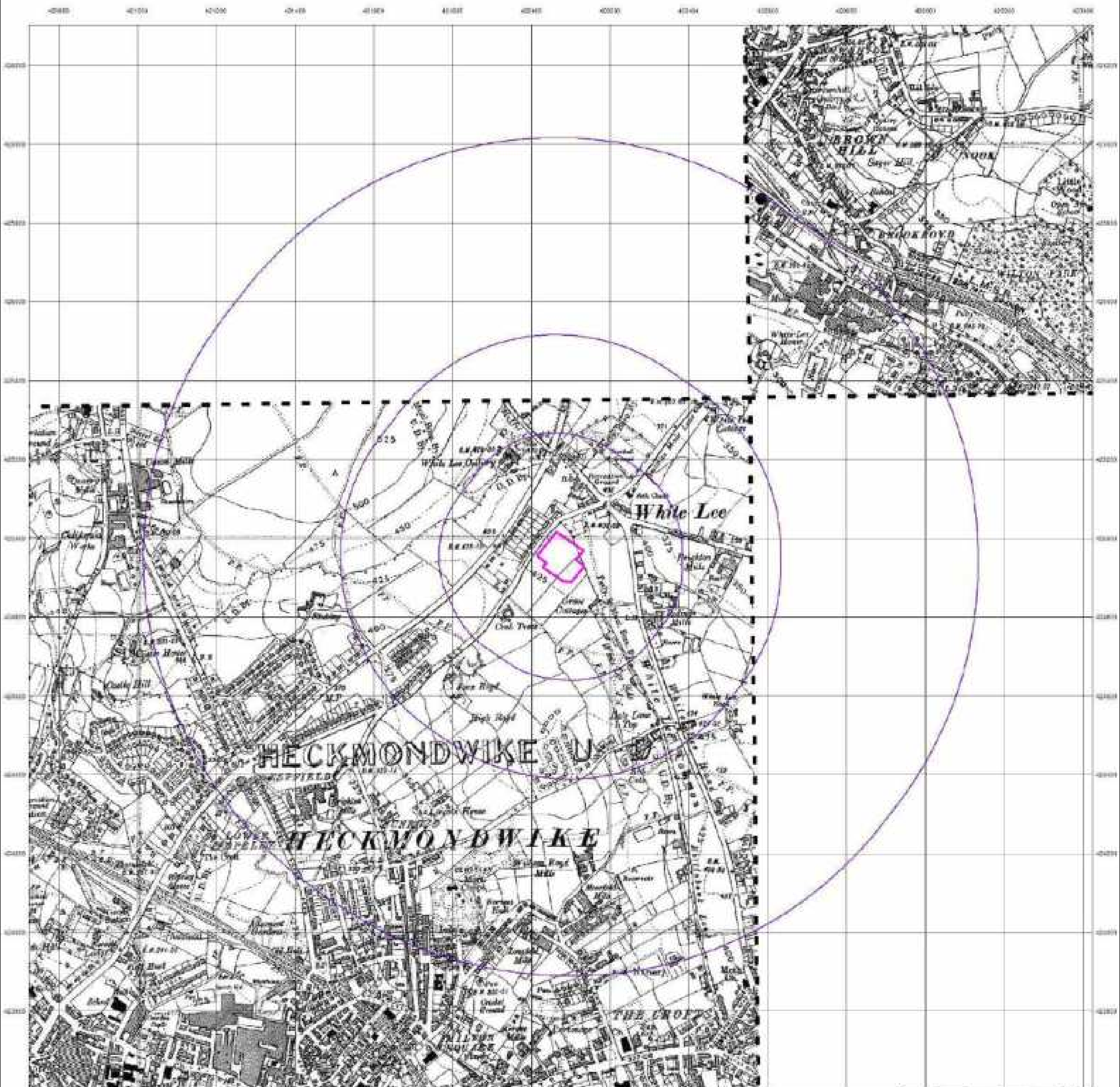
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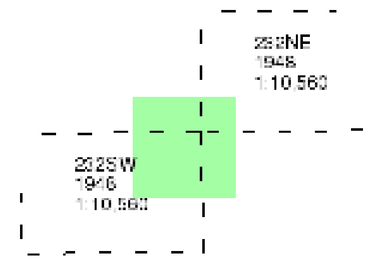
Yorkshire

Published 1948

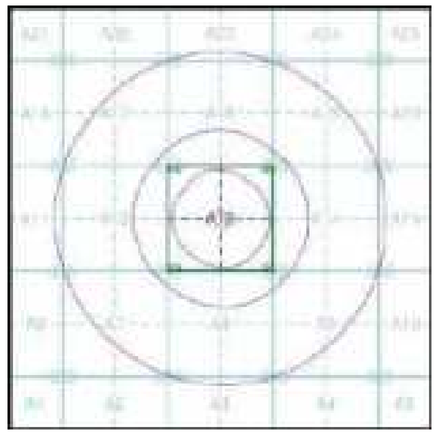
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 302714435_1_1
Customer Ref: 350555
National Grid Reference: 422080, 424950
Slice: A
Site Area (Ha): 0.89
Search Buffer (m): 1000

Site Details

Co-Op Academy Smithies Moor, Leeds Old Road, HECKMONDWIKE, WF16 9BB

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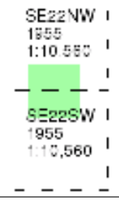
Ordnance Survey Plan

Published 1955

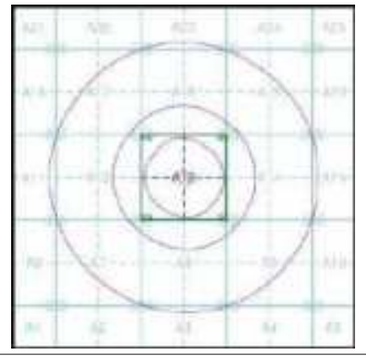
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



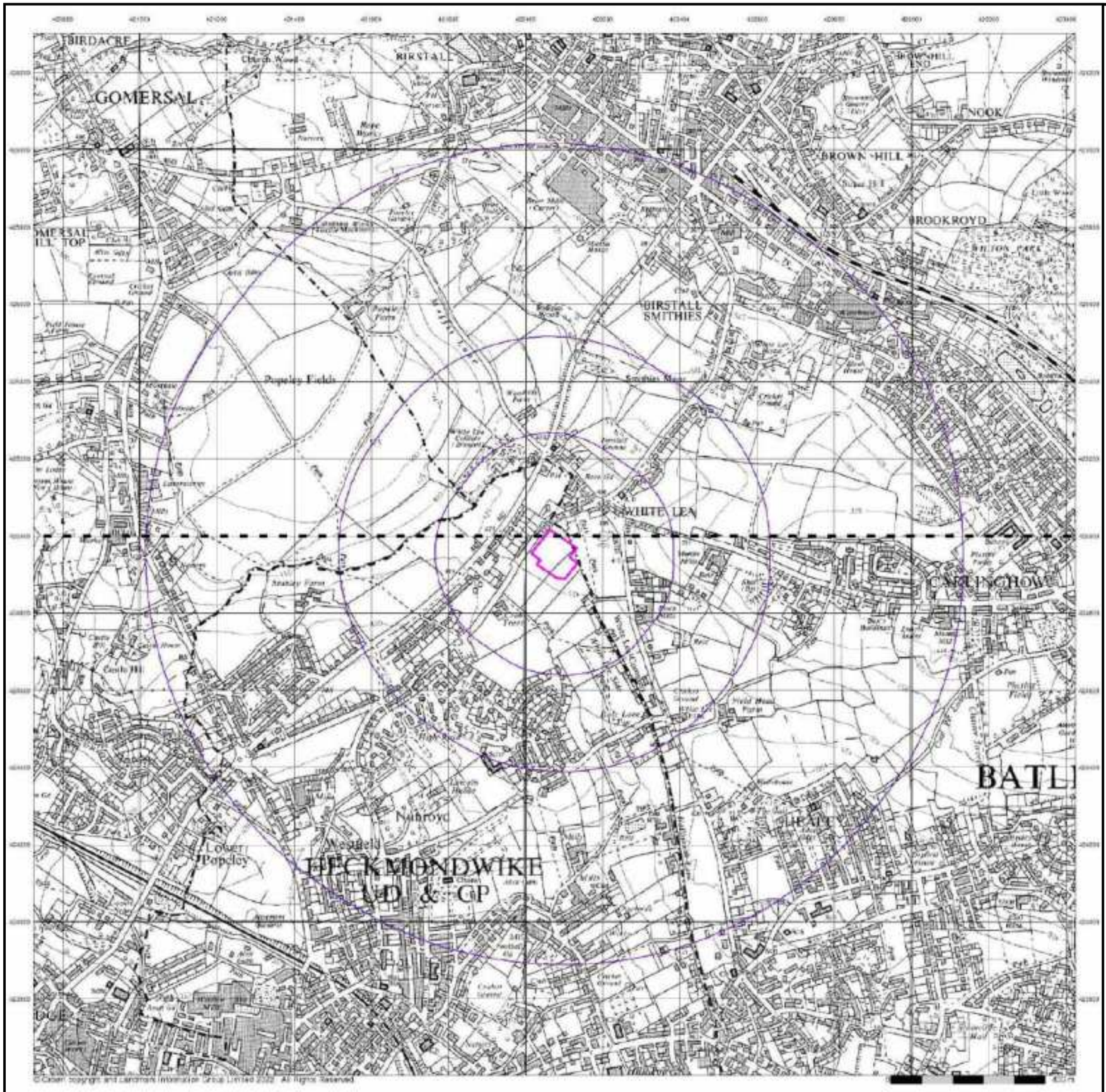
Order Details

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National Grid Reference:	422080, 424950
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Site Area (Ha):	0.89
Search Buffer (m):	1000

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Ordnance Survey Plan

Published 1966 - 1967

Source map scale - 1:10,000

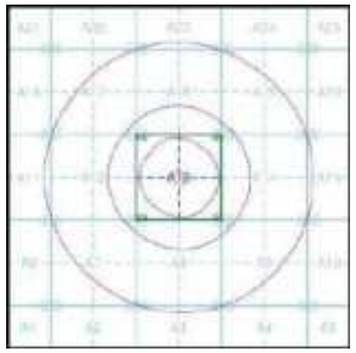
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE22NW
1955
1:10,560

SE22SW
1967
1:10,560

Historical Map - Slice A



N

Order Details

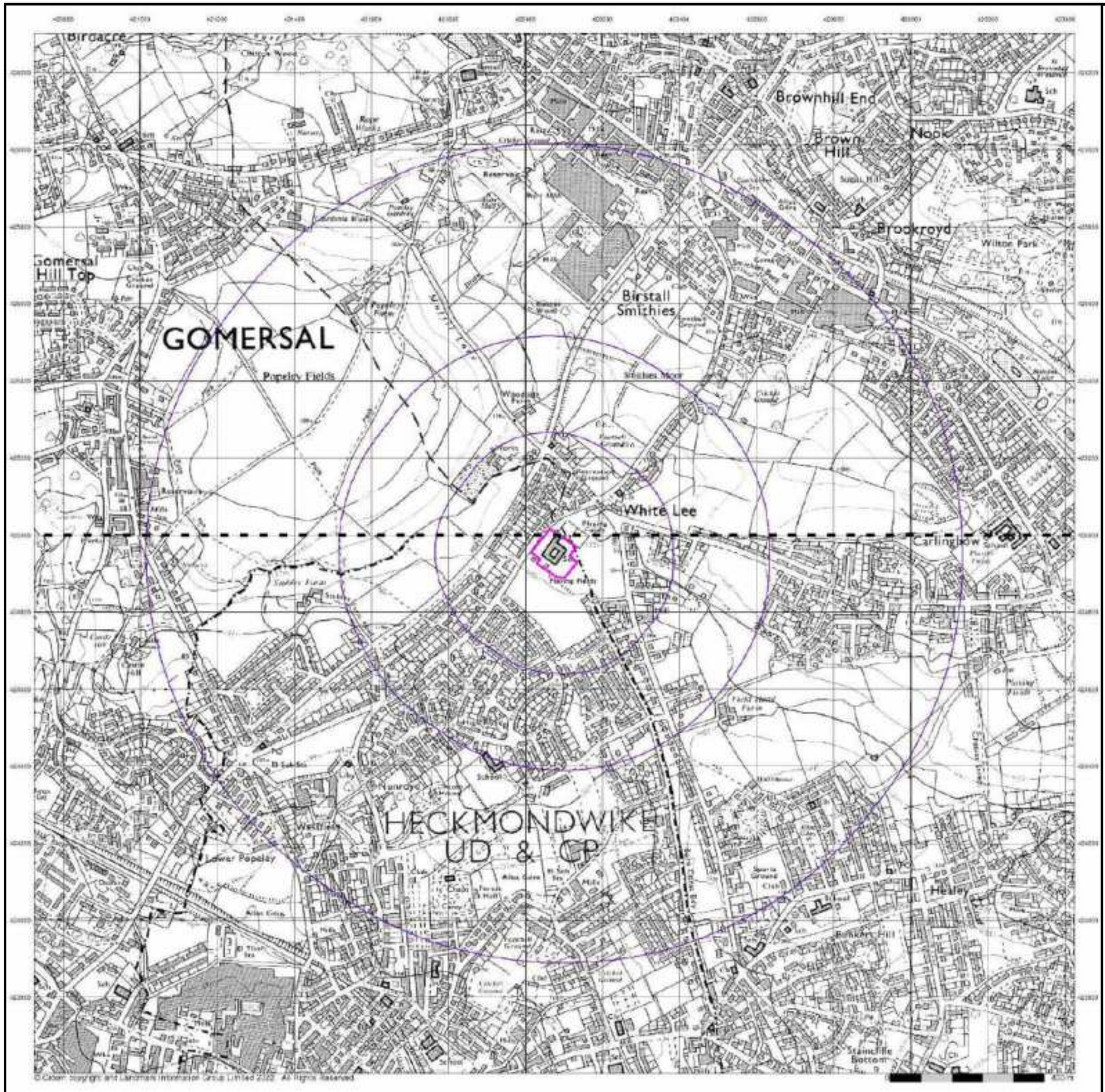
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Slice:	A
Site Area (Ha):	0.89
Search Buffer (m):	1000

Site Details

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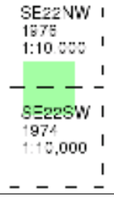
Ordnance Survey Plan

Published 1974 - 1976

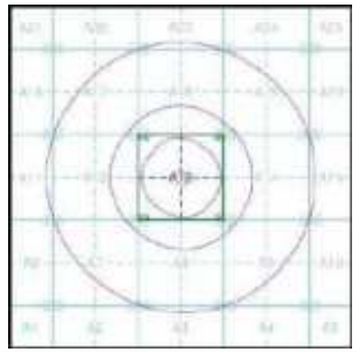
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

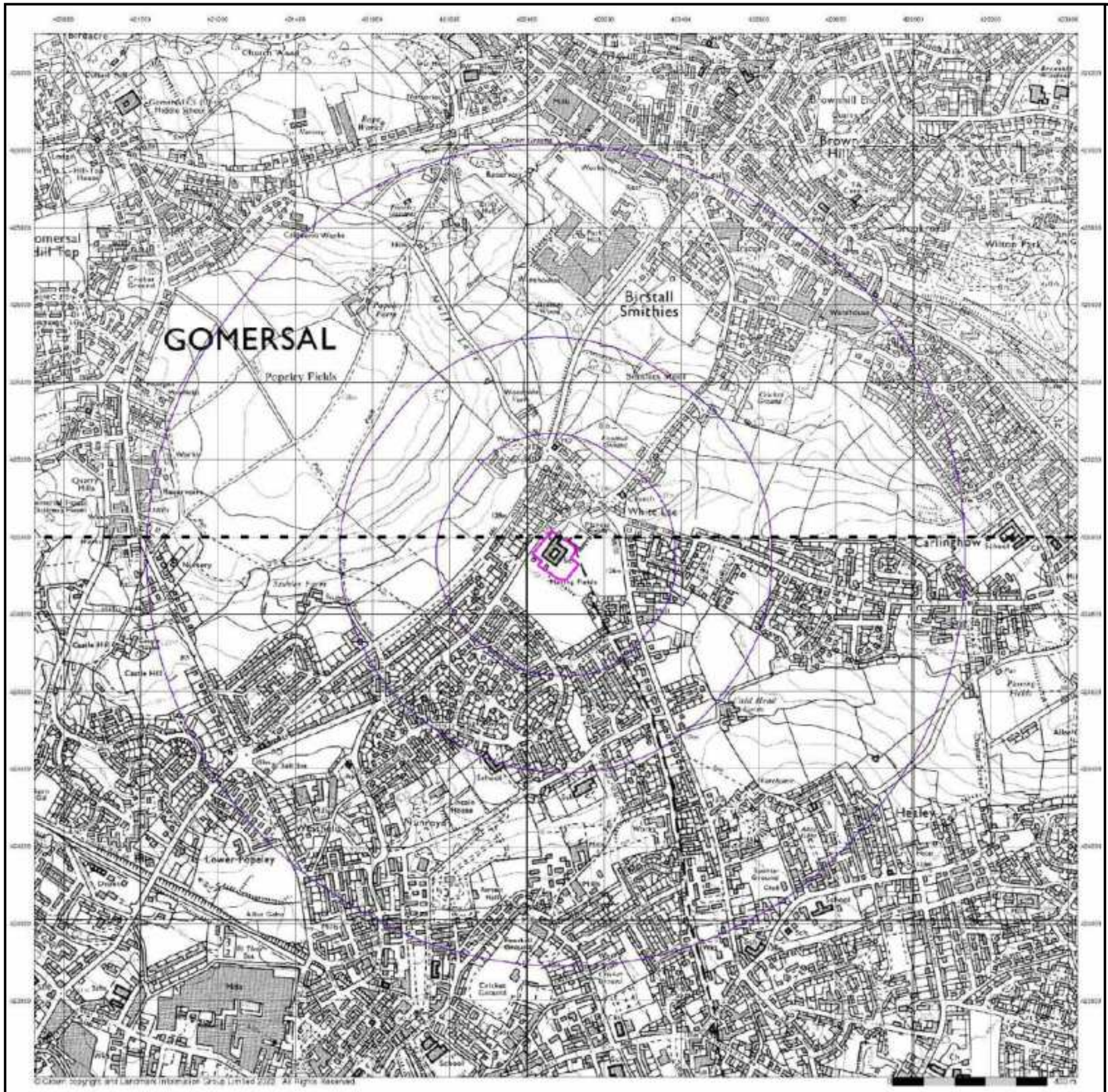
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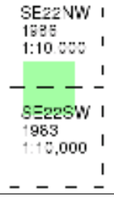
Ordnance Survey Plan

Published 1983 - 1986

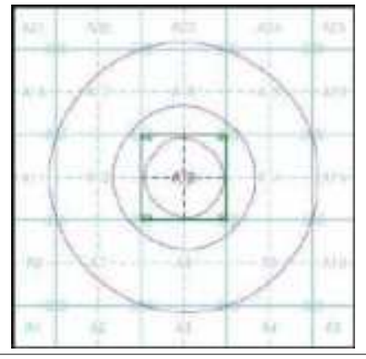
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

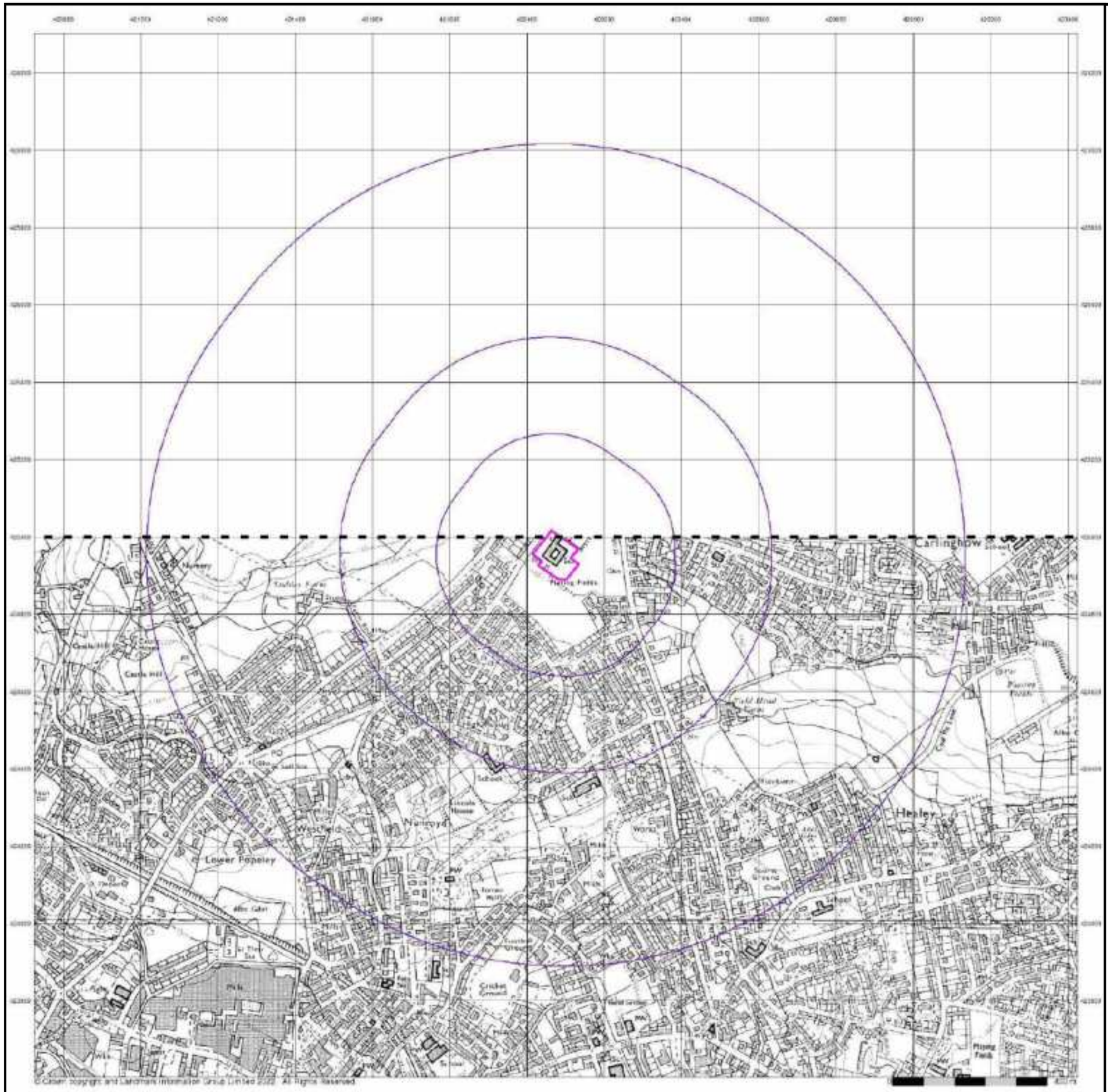
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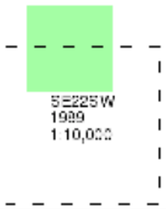
Ordnance Survey Plan

Published 1989

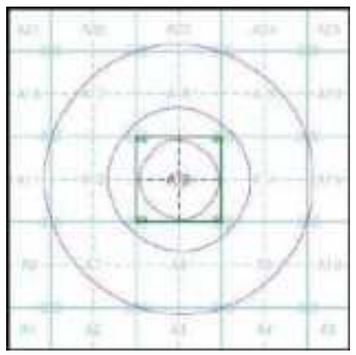
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

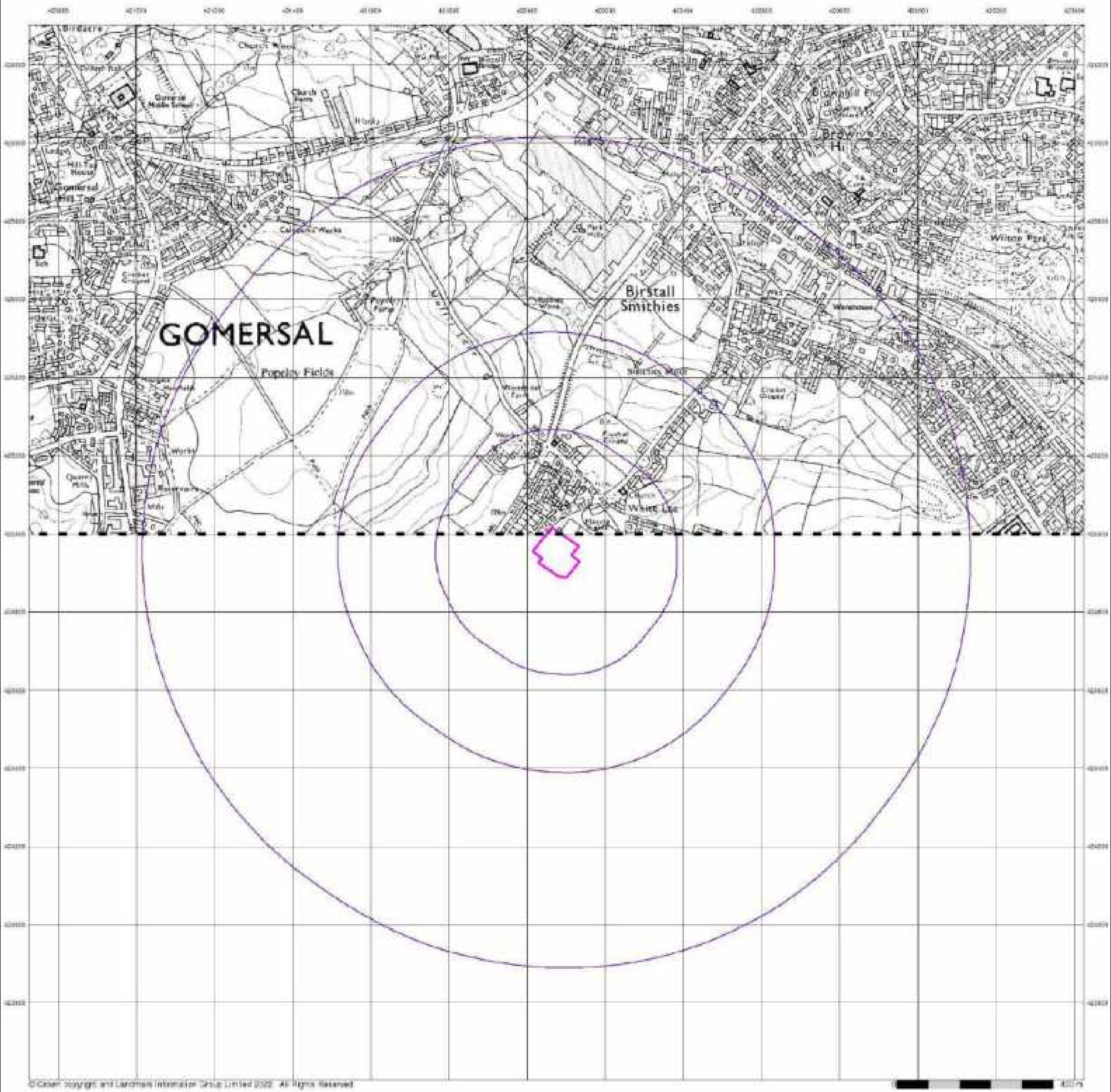
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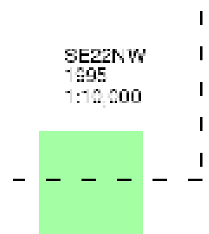
Ordnance Survey Plan

Published 1995

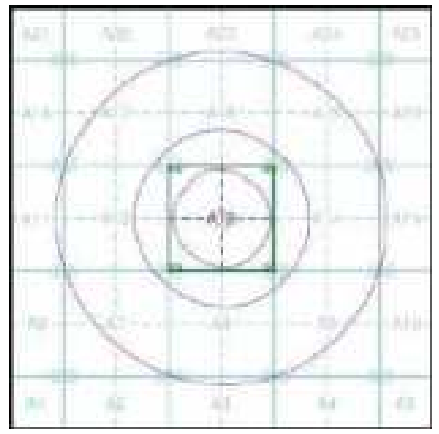
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



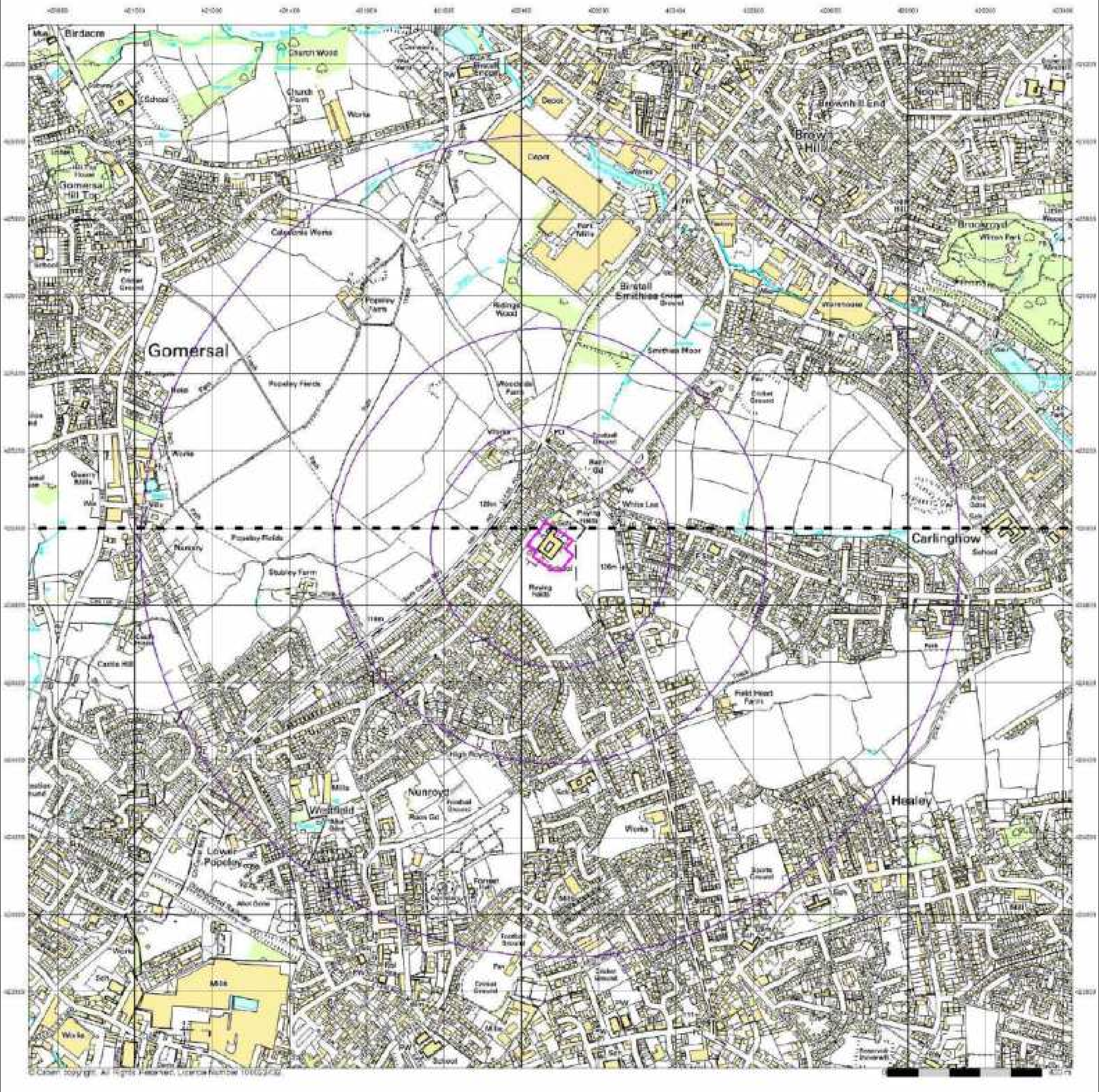
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Customer Ref: 350555
National Grid Reference: 422080, 424950
Slice: A
Site Area (Ha): 0.89
Search Buffer (m): 1000

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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

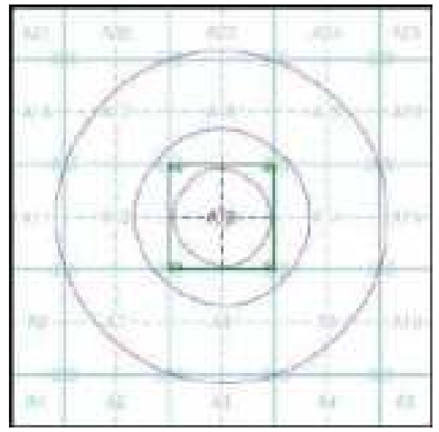
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE22NW
2000
1:10,000

SE22SW
2000
1:10,000

Historical Map - Slice A

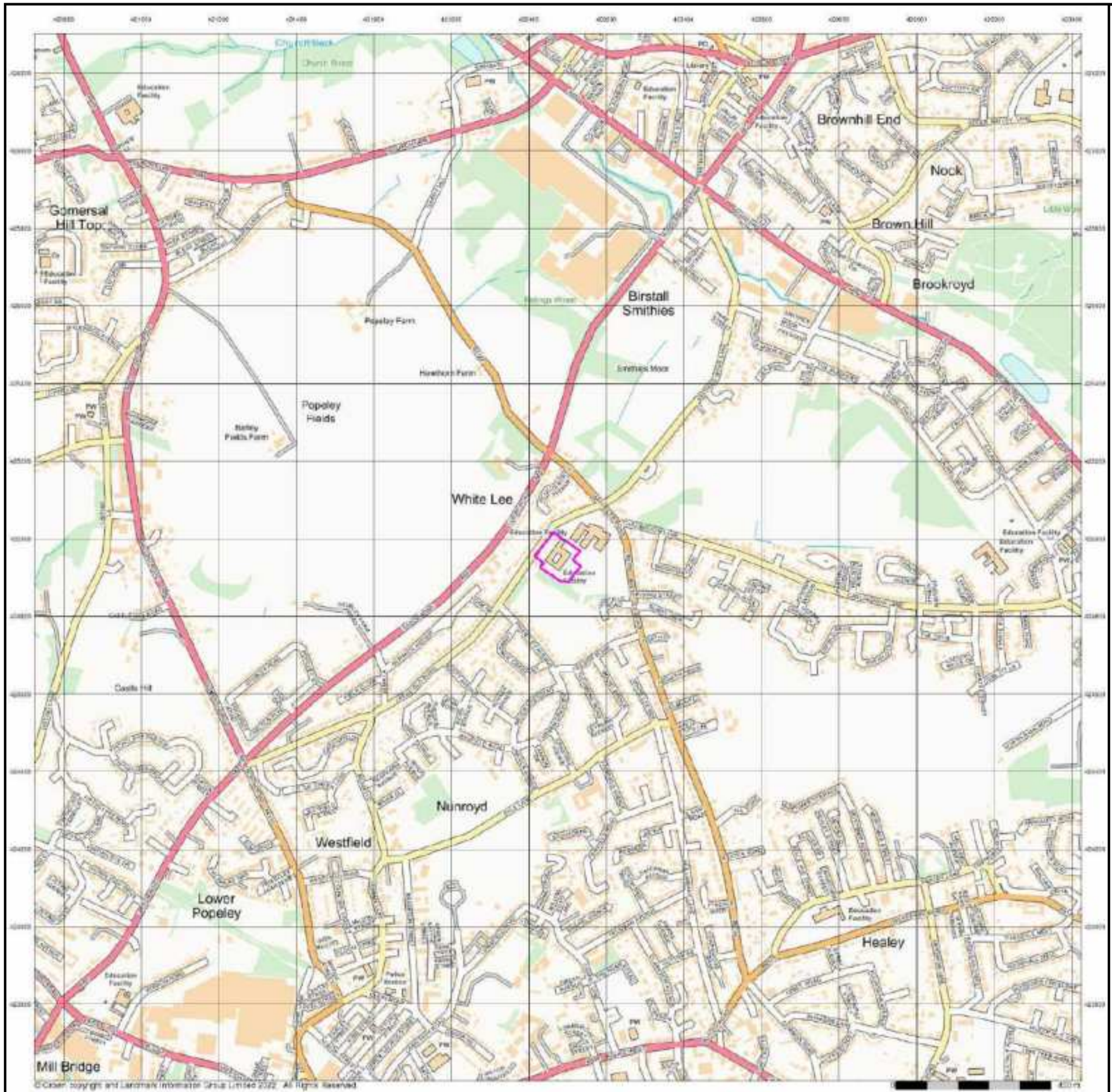


Order Details

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Site Details

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Street View

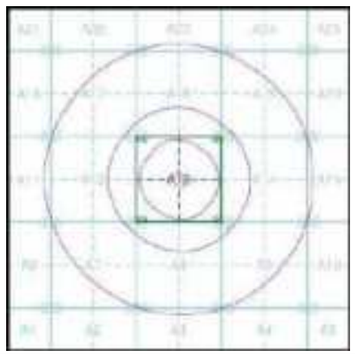
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number:	302714435_1_1
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