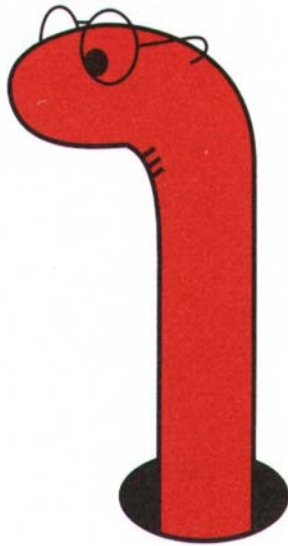


Electronic Report



WORMS EYE

Worms Eye Ltd
PO Box115
COLNE
BB9 4HS

01282 414649

info@wormseye.co.uk

Our Ref: Hawkshaw Lane / BL8 4LB / 2021
Date: 18 July 2022

Mr Peter Williams
Wbw Surveyors Limited
Skipton Auction Mart
Gargrave Road
Skipton
BD23 1UD

peter.williams@wbwsurveyors.co.uk

HIGHER HOUSE FARM, 14 HAWKSHAW LANE, TOTTINGTON, BURY, BL8 4LB
INTRUSIVE REPORT

INTRODUCTION

A residential development is proposed. Following a Preliminary Risk Assessment (PRA 29/4/21) instructions were to carry out trial holes and tests to investigate potential contamination.

SITE LOCATION

Higher House Farm is located to the northeast of Hawkshaw Lane in Tottington and at OS Grid Reference 375989, 415815. The site, at the northeast of the farm, has a main section, 30 x 23m, and a narrow access, 15 x 2m, running southwest to Hawkshaw Lane. There are the following features:

- Building 1 – Stables at northeast, concrete/brick with sheet metal cladding and suspected asbestos sheet roof with unsurfaced area to the northeast.
- Building 2 – Stables along southwest of building 1, stone with slate roof.
- Building 3 – Store room at southeast of building 2, stone with slate roof.
- Building 4 – Telecommunication mast southeast of building 1.

To the east and southeast and fields, to the southwest/west are farm buildings and a yard, and to the north/northwest is a hardcore yard and timber building. The area slopes down to the south.

PROPOSED DEVELOPMENT

It is proposed to demolish building 1; convert stone barn to 2 to a house, build a single storey lean-to extension to its northeast and create a garden at the northeast.

PRELIMINARY RISK ASSESSMENT

Worms Eye carried out a PRA dated 29/4/21, the salient points were:

Contamination

The site comprises three farm buildings, buildings 1 and 2 most recently being stables and building 3 a store. Whilst there has been no use from which high levels of contaminants would be expected, the site is part of a farm. Low levels of contaminants are often found on farms, exceeding stringent residential thresholds, from storage/ use of machinery/ equipment, spills and building materials.

The existing building has suspected asbestos cement sheets and the demolition needs to be carefully undertaken to prevent contaminants entering the ground.

The development will be a house with garden. Potential pollutant linkages are considered to be:

- Direct contact with soil and ingestion of soil.
- From homegrown vegetables and soil attached to vegetables.
- Inhalation and ingestion of dust.
- Sulphate attack on buried concrete.

A low to moderate risk is expected to householders. There are no point sources for contamination.

Controlled Waters

There is an underlying Secondary A aquifer, beneath clay. There are no nearby source protection zones or water abstraction points and Kirklees Brook is 280m southwest.

Although the gardens will allow rainwater to pass through the surface soils, contamination is not expected at high levels. The underlying clay will impede the migration of water, and it is anticipated there will be no risk to controlled waters and no further action is necessary at this stage.

Landfill Gas/Ground Gas / Radon

There are no landfill sites or notable filled features within 250m and no indication of deep made ground being present. There are no credible on or off-site landfill or ground gas sources, and no gas risk to the development.

Radon protection measures are not required.

PRA Re-Cap Continued

Industry Profile

The site comprised two stables and a small store on a farm.

Industry	Possible Contaminants
Stables	Metals: e.g. copper, zinc, chromium, nickel, lead, cadmium, arsenic, Inorganic compounds: cyanide, sulphates Phenols Mineral oils, fuel oils (TPHs) Asbestos General hydrocarbons (PAHs)

Pollutant Linkages

The potential pollutant linkages revealed by the PRA as requiring further investigation were:

Source	Receptors	Pathway	Potential/Likely Pollutant Linkage
Asbestos	End-users	Inhalation	Yes
	Off-site	Migration off-site	Unlikely
Inorganic contaminants	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Sulphate	Building fabric	Concrete directly in contact with soil	Possible
Hydrocarbons	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Hydrocarbon vapours	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas	End-users (inside)	Seeping into buildings, explosion, asphyxiation	No
Radon	End-users (inside)	Seeping into buildings	No

End of PRA Re-Cap

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GROUND INVESTIGATIONS

A series of five trial holes were excavated to shallow depth to collect samples for testing. Details are given on the location plan and trial hole logs enclosed with this report.

THA shows made ground (clinker, topsoil and brick) to 0.28m overlying clay to its base at 0.5m.

THC had made ground (sandstone rubble with sand) overlying clay at 0.46-0.7m and gravel from 0.7-0.9m deep.

THB, D and E show similar conditions with topsoil to about 0.3m overlying clay. Although occasional brick pieces, were seen in the topsoil, these are considered to have entered the ground over the years, rather than signify made ground. Sand was seen below 0.5m in THD.

The following approximates to a section looking northeast.

Findings	THA (m)	THB (m)	THC (m)	THD (m)	THE (m)
Made ground	0.0 – 0.28	-	0.0 – 0.46	-	-
Topsoil	-	0.0 – 0.25	-	0.0 – 0.4	0.0 – 0.3
Clay	0.28 – 0.5	0.25 – 0.6	0.46 – 0.7	0.4 – 0.5	0.3 – 0.35
Sand	-	-	-	0.5 – 0.65	-
Gravel	-	-	0.7 – 0.9	-	-
Water	Dry	Dry	Dry	Dry	Dry

CONTAMINATION TESTING

Six samples were tested for a range of contaminants indicated by the PRA. The results are included in table form with this report with abbreviations and acronyms given after the appendix list.

The maximum contamination values have been compared with residential C4Ls, soil guideline values provided by CLEA and values based on the LQM/CIEH S4ULS. In accordance with guidance provided by the AGS, threshold values from other sources have been used for screening purposes. This information has been brought together on the Comparison Table included with this report.

Asbestos – No asbestos fibres were detected.

Inorganics (metals etc.) – Levels of inorganic contaminants are below residential thresholds.

Sulphate – Water Soluble Sulphate levels are below the BRE action level for buried concrete.

Hydrocarbons – TPHs and phenols are below residential thresholds. PAHs are very low, and below residential thresholds in THA, THB THC and THD. However, Benzo(a)pyrene, Benzo(b)fluoranthene and Dibenzo(ah)anthracene all exceed residential thresholds in THE at 0.2m.

DISPOSAL OF EXCAVATED SOIL

Results have been compared with hazardous waste thresholds and a Hazwaste Report is enclosed. This suggests excavated soil would not be classed as hazardous waste.

Levels of Total Organic Carbon (TOC) exceed the threshold for disposal at inert waste landfill without treatment, and may pose difficulties for disposal. However, the Dissolved Organic Carbon is below the threshold for inert waste landfill.

DISCUSSION

The existing building has suspected asbestos cement sheets and the demolition needs to be carefully undertaken to prevent contaminants entering the ground.

Contamination

Contamination tests show the following PAHs to exceed the residential threshold in THE at 0.2m:

Trial Hole	Depth (m)	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(ah)anthracene
THE	0.2	X	X	X

The risks from these pose a risk to householders where there is direct contact (garden) or possible direct contact (paths, patios). These do not pose a risk below the building and drive where the soils can remain with no risk.

THE represents the garden at the southeast, between the existing building and phone mast, suggesting a risk to householders, in the southeast part of the garden. Although levels elsewhere are very low, and levels in THE are not very high, the existing building and mast are to be removed, the ground around THE will be disturbed, and the garden will need to be created in the area.

Levels of contaminants elsewhere including nearby THD, suggest no risk in other areas. It is considered it would be appropriate to carry out remedial works in the area of THE as part of the enabling works, and that they should extend up to THD.

Water Soluble Sulphate levels are low and sulphate resistant concrete is not required.

Volatile hydrocarbons are below the thresholds and there is no risk from hydrocarbon vapours.

Excavated Soils

Test results suggest excavated soil would not be classed as hazardous waste.

Levels of TOC may pose difficulties for disposal off-site to inert waste landfill.

Controlled Waters

Regarding risks to controlled waters:

- The site is underlain by a Secondary A aquifer.
- The nearest water course is Kirklees Brook 280m southwest.
- The levels of contaminants are not excessive.
- Contaminated soils in THE will be taken away or covered, removing or considerably reducing the opportunity for leaching.
- Clay underlying the site will be an aquitard.
- There are no nearby source protection zones or water abstraction points.

Bearing in mind the above, it is considered that there are no risks to controlled waters and no further action is needed.

Landfill Gas/Ground Gas

There are no landfill sites or notable filled features within 250m, and no deep made ground on-site. There are no credible on or off-site landfill or ground gas sources, and no gas risk to the development.

CONCEPTUAL MODEL

Source	Receptors	Pathway	Complete Pollutant Linkage
Asbestos (no fibres seen)	End-users	Inhalation	No
	Off-site	Migration off-site	No
Inorganic contaminants (low)	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	No
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Sulphate (low)	Building fabric	Concrete directly in contact with soil	No
Hydrocarbons	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes – around THE
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Hydrocarbon vapours (low)	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas	End-users (inside)	Seeping into buildings, explosion, asphyxiation	No
Radon	End-users (inside)	Seeping into buildings	No

BREAKING PATHWAYS

Construction Workers

Site workers should be made aware of the hazards of working with contaminated soils, and appropriate procedures and PPE adopted to ensure the health and safety of the site operative. All site personnel should be briefed on the discovery strategy in the watching brief and what actions they must take in the event that further evidence of contamination is identified or suspected.

Normal precautions for an urban renewal type project are required. These would include the use of gloves and the provision of washing facilities to avoid ingestion of contaminants.

Watching Brief

A watching brief for unexpected contaminants should be maintained. If unexpected contaminants (e.g. asbestos, oily material, unusual smells) are seen, especially during excavations, work should cease and the consultant be notified and the site inspected.

We suggest taking regular photographs (daily or more frequent) of excavations to include in the validation report.

Garden/Landscaped Areas

Contamination by PAHs was seen in made ground from THE at 0.2m. One method is to remove the source by excavating contaminated soils beneath gardens/paths/patios and disposing off site.

- Excavate contaminated soils to a minimum 600mm below finished ground level, below gardens, paths, patios on the southeast of the site, up to THD.
- Dispose excavated soils off-site.
- Backfill with clean, imported soils, comprising (bottom up):
 - 450mm sub-soil (gardens) or 550mm sub-soil (non-garden areas)
 - 150mm topsoil (gardens)

An alternative is to excavate contaminated soils down to natural ground or 600mm, whichever is shallower, and test the base of the excavation:

- Excavate contaminated soils down to underlying clay, below gardens, paths, patios and areas on the southeast of the site, up to THD.
- Test the northwest side and base of the excavation for PAHs.
- If levels remain high widen excavation and re-test and/or deepen excavations to 600mm.
- Dispose excavated soils off-site.
- Backfill with clean, imported soils, comprising (bottom up):
 - 450mm sub-soil (gardens) or 550mm sub-soil (non-garden areas)
 - 150mm topsoil (gardens)

Excavated Soils

Test results suggest excavated soil would not be classed as inert waste.

However, levels of TOC may pose difficulties for disposal off-site to inert waste landfill and the results should be issued to the receiving site for confirmation of its status.

Imported Soils

All soils (e.g. topsoil, bulk fill hardcore) and similar materials imported on-site to be proved to be uncontaminated. Imported material will require testing as follows:

- Greenfield soils – minimum of 3 tests or 1 test per 100m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs (speciated), boron, cyanide, thiocyanate, sulphide, sulphur, sulphate, pH, Som.
- Brownfield/screened/manufactured soils – minimum of 3 tests or 1 test per 50m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation) asbestos, TPHs (speciated), boron, cyanide, thiocyanate, sulphide, sulphur, sulphate, pH, Som.

Soil Screen Values

Tests carried out on the imported material, either by the supplier or the consultant, to be screened against residential values, based on 1% SOM. If these are exceeded, site specific value may be derived, subject to them being appropriate.

Validation

A validation report will be required on completion, this will require but not necessarily be limited to:

- Tickets from waste removal contractor and receiving landfill.
- Photographs of excavation to confirm depth.
- Contamination test results for tests on imported soils.
- Photographs to confirm thickness of imported soil types.
- Document (receipt, delivery notes) to show soil types and sources.

OPINION

The existing building has suspected asbestos cement sheets and the demolition needs to be carefully undertaken to prevent contaminants entering the ground.

Contaminated Soils

Test results show raised levels of PAHs in THE at 0.2m deep. These pose a risk to householders in that area and, bearing in mind the existing building a phone mast are to be removed, the following is suggested:

Option 1

- Excavate contaminated soils to a minimum 600mm below finished ground level below gardens/ paths/ patios on the southeast of the site, up to THD.
- Backfill with clean, imported soils.

Option 2

- Excavate contaminated soils down to the underlying clay gardens/ paths/ patio areas on the southeast of the site up to THD.
- Test northwest side and base of excavation for PAHs, and widen/or deepen excavation if necessary.
- Backfill with clean, imported soils.

The findings suggest no risk elsewhere, and no risk below the proposed building. Remedial works should be limited to the garden/ paths/ patio around THE.

Sulphate resistant concrete is not required.

There are no risks from hydrocarbon vapours.

Excavated Soils

Test results suggest excavated soil would not be classed as inert waste.

Levels of TOC may pose difficulties for disposal off-site to inert waste landfill and the results should be issued to the receiving site for confirmation of its status.

Controlled Waters

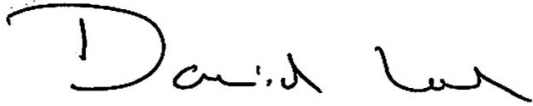
The findings suggest no risks to controlled waters and no further action is required.

Landfill / Ground Gas

There are no landfill sites or notable filled features within 250 metres. Furthermore, there is no deep made ground present on-site. There are no credible on or off-site landfill or ground gas sources, and no gas risk to the development.

Yours faithfully

on behalf of Worms Eye Ltd

A handwritten signature in black ink, appearing to read 'David Lord', with a stylized flourish at the end.

David Lord

BSc (Hons)

FGS, MEnvSc, AIEMA

HIGHER HOUSE FARM, 14 HAWKSHAW LANE, TOTTINGTON, BURY, BL8 4LB

List of Appendices – Intrusive Report

List of Acronyms

Existing site plan - showing trial hole locations

Proposed site plan – showing trial hole locations

Trial Hole Logs

Contamination Test Results - Soil

Contamination Comparison Table – Soil

Hazwaste Report

Plan Showing Proposed Remedial Works

CONTAMINATION TEST UNITS

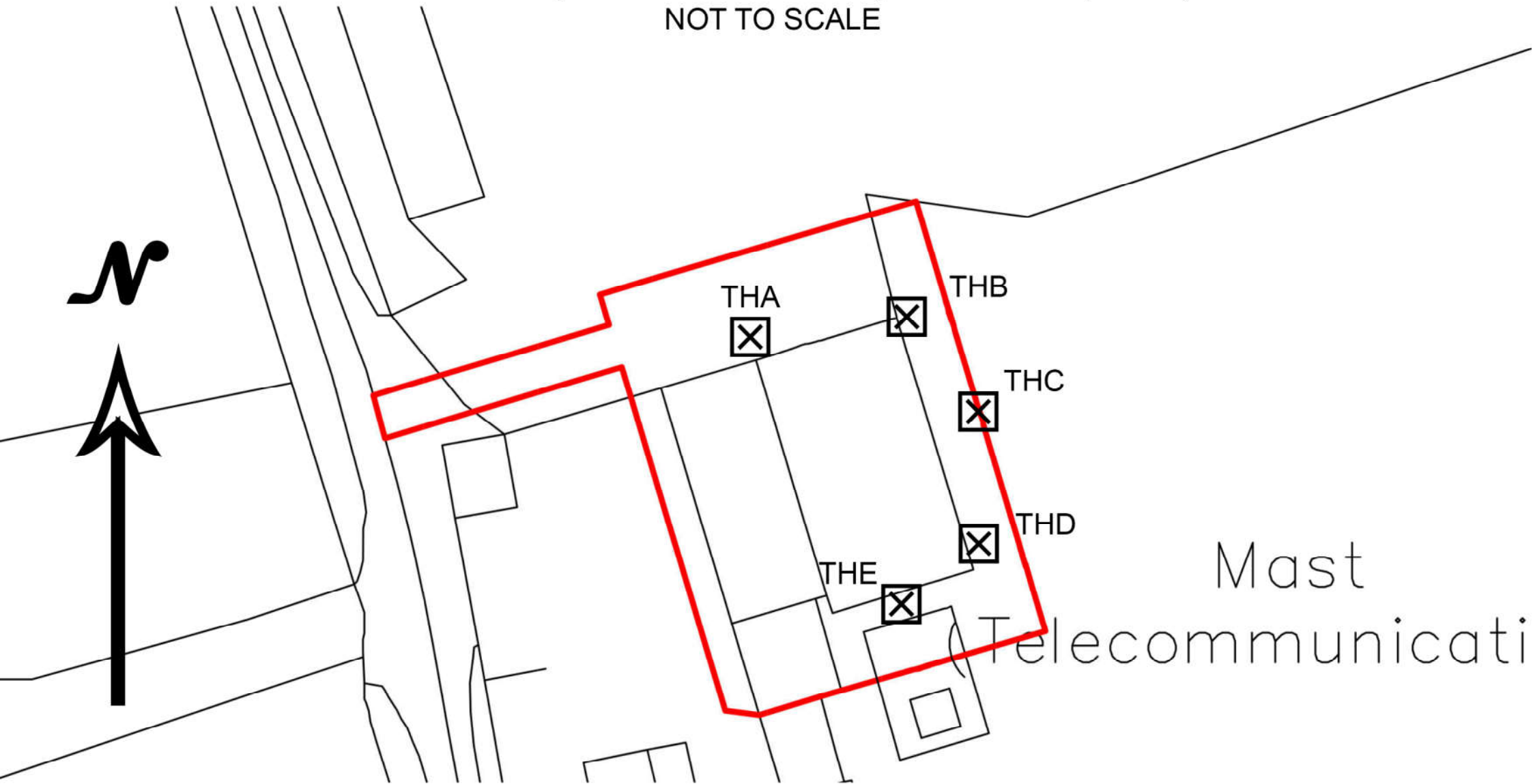
Conversion factor	Name	Symbol	Numerical Value	Alternative description	Commonly used for:
	per cent	%	1 in 100 (10 ²)		total sulphur, hazardous waste
% x10	parts per thousand	‰	1 in 1000 (10 ³)	g/l (grams per litre)	water soluble sulphate test
‰ x 1,000	parts per million	ppm	1 in 1,000,000 (10 ⁶)	mg/kg (milligrams per kilogram)	most soil tests
				mg/l (milligrams per litre)	water tests
ppm x 1,000	parts per billion	ppb	1 in 1,000,000,000 (10 ⁹)	µg/kg (micrograms per kilogram)	PAH soil tests
				µg/l (micrograms per litre)	water/leachate tests
ppb x 1,000	parts per trillion	ppt	1 in 1,000,000,000,000 (10 ¹²)	ng/kg (nanograms per kilogram)	PAH soil tests
				ng/l (nanograms per litre)	water/leachate tests

ABBREVIATIONS

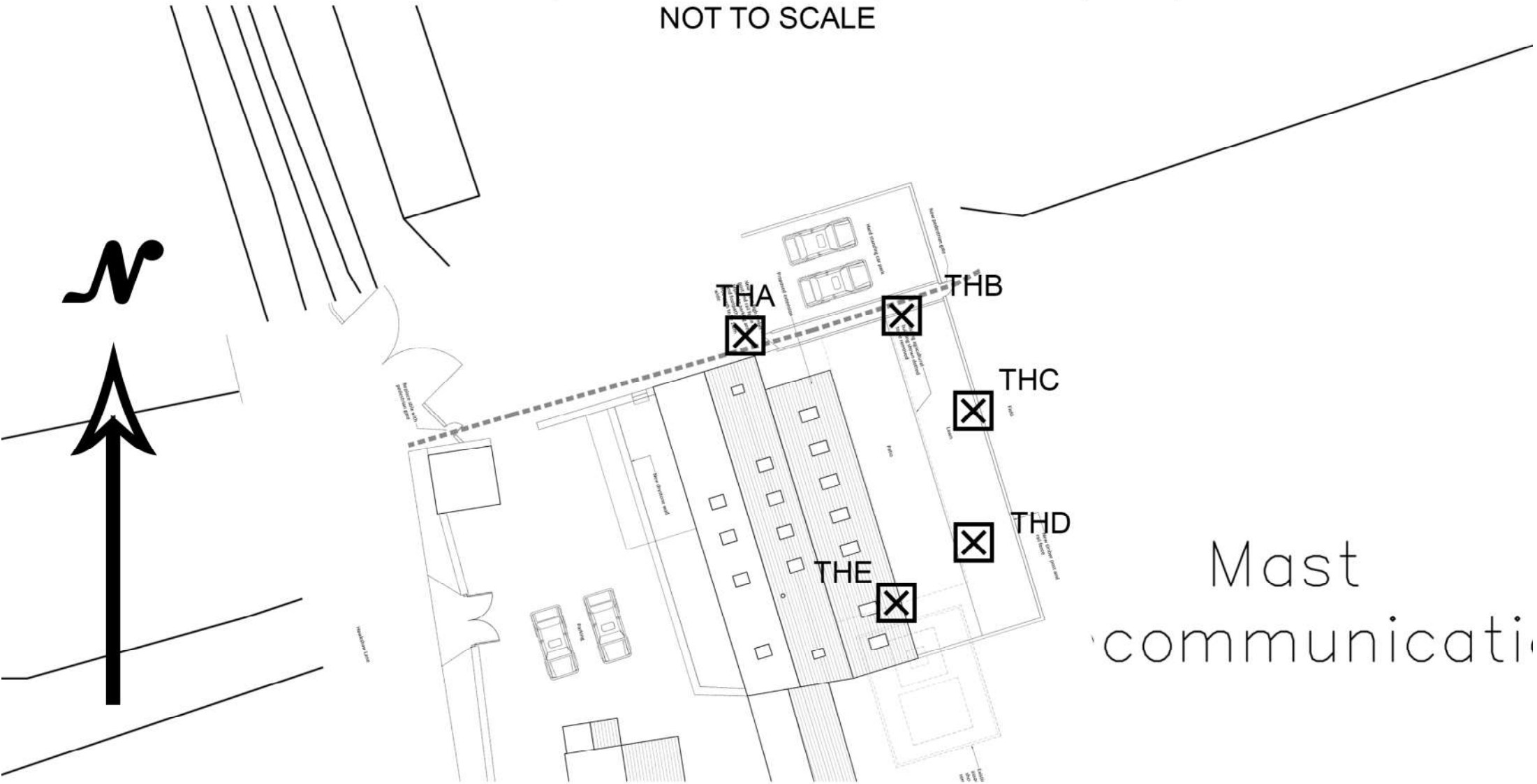
<u>Chemical</u>	BAP	Benzo(a)pyrene
	BTEX	Benzene, toluene, ethylbenzene, xylene
	DAHA	Dibenzo(ah)anthracene
	MTBE	Methyl tertiaryt-butyl ether (additive to petrol)
	EPH	Extractable petroleum hydrocarbons (formerly diesel range organics – DRO)
	NFD	No fibres detected (asbestos test)
	PAH	Polycyclic aromatic hydrocarbons
	PCB	Polychlorinated biphenyls
	PCE	Perchloroethylene or tetrachloroethylene
	PID	Photo ionisation detector (screen for VOC)
	PRO/GRO	Petrol range organics/gasoline range organics
	SVOC	Semi-volatile organic compounds
	TCE	Trichloroethylene
	TPH	Total petroleum hydrocarbons
	VOC	Volatile organic compounds
<u>Other</u>	AGS	Association of Geotechnical Specialists
	BGS	British Geological Survey
	BRE	Building Research Establishment
	CBR	California Bearing Ratio
	CIEH	Chartered Institute of Environmental Health
	CIRIA	Construction Industry Research and Information Association
	CLEA	Contaminated Land Exposure Assessment (Environment Agency/DEFRA)
	CLR 8	Contaminated Land Research Report 8 (Environment Agency/DEFRA)
	DWQ	Drinking water quality
	EA	Environment Agency
	EQS	Environmental quality standards (for rivers etc.)
	ICRCL	Inter-departmental Commission for the Reclamation of Contaminated Land
	LQM	Land Quality Management Ltd (Land and Environmental Consultancy).
	NHBC	National House Builders Council
	SGV	Soil Guideline Values
	SPT	Standard penetration test

1. This report should be considered in relation to the objectives agreed between Worms Eye and the Client, outlined in the introduction.
2. For the work, reliance has been placed on publicly available data, obtained from the sources identified in the report. The information is not exhaustive and further information may be available from other sources. When using the information it has been assumed it is correct, and no attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and guidelines, for land and groundwater contamination, enforced by the Local Authority and the Environment Agency.
4. During the site walkover, reasonable effort was made to obtain an overview of the site. However, no attempt was made to enter areas that are unsafe, a risk to health and safety, locked, barricaded, overgrown, or areas not made accessible.
5. Access, the presence of services and activities on the site, limited locations where sampling could be carried out and the techniques that could be used.
6. Assessments are based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. The conclusions and recommendations provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
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9. New information, revised practices, or changes in legislation, may necessitate the re-interpretation of the report, in whole or in part.

EXISTING PLAN - SHOWING TRIAL HOLES
HIGHER HOUSE FARM, 14 HAWKSHAW LANE, TOTTINGTON, BURY, BL8 4LB
NOT TO SCALE



PROPOSED PLAN - SHOWING TRIAL HOLES
HIGHER HOUSE FARM, 14 HAWKSHAW LANE, TOTTINGTON, BURY, BL8 4LB
NOT TO SCALE

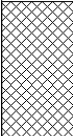


Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Higher House Farm, Hawkshaw Lane, Hawkshaw, Tottington, Bury		Trial Pit Number THA
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Mr and Mrs Leak		Job Number BL8 4LB
		Location		Dates 30/06/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.28)	Black clinker and topsoil with occasional brick.		
					0.28 (0.22)	Brown/grey gravelly clay.		
					0.50	Complete at 0.50m		



Remarks Trial hole dry.		
Scale (approx) 1:25	Logged By EW	Figure No. BL8 4LB.THA

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS				Site Higher House Farm, Hawkshaw Lane, Hawkshaw, Tottington, Bury		Trial Pit Number THB			
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Mr and Mrs Leak		Job Number BL8 4LB	
		Location		Dates 30/06/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
						Topsoil with brick piece and stone pieces.			
					0.25	Orange/brown sandy clay.			
					0.35				
					0.60	Complete at 0.60m			
						Remarks Trial hole dry.			
						Scale (approx) 1:25		Logged By EW	

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Higher House Farm, Hawkshaw Lane, Hawkshaw, Tottington, Bury		Trial Pit Number THC	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Mr and Mrs Leak		Job Number BL8 4LB	
		Location		Dates 30/06/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
					(0.46) 0.46 0.47 (0.23) 0.70 (0.20) 0.90	MADE GROUND - Rubble (sandstone) with sand Wet Geotextile. Brown gravelly clay. Clayey gravel. Complete at 0.90m		   	
						Remarks			
						Scale (approx) 1:25		Logged By EW	

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Higher House Farm, Hawkshaw Lane, Hawkshaw, Tottington, Bury		Trial Pit Number THD	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Mr and Mrs Leak		Job Number BL8 4LB	
		Location		Dates 30/06/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
						Brown topsoil with brick, gravel.			
					(0.36)				
					0.36	Sandstone block.			
					(0.40)				
					0.50	Orange/brown sandy clay.			
					(0.15)				
					0.65	Orange/brown sand.			
					Complete at 0.65m				

Site

Higher House Farm, Hawkshaw Lane, Hawkshaw,
Tottington, Bury

**Trial Pit
Number**
THD

Dimensions
Location

Ground Level (mOD)	
Dates	30/06/2022

Client	Mr and Mrs Leak
Project Contractor	Worms Eye Ltd.

Job Number
BL8 4LB

Sheet
1/1

[illegible]

Remarks
Trial hole dry.

Scale (approx)
1:25

Logged By EW

Figure No.
BL8 4LB.THD

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Higher House Farm, Hawkshaw Lane, Hawkshaw, Tottington, Bury		Trial Pit Number THE		
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Mr and Mrs Leak		Job Number BL8 4LB		
		Location				Dates 30/06/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description			Legend	Water
					(0.23) 0.23 (0.07) 0.30 0.35	Brown clayey topsoil with rare brick and occasional gravel.				
						Layer of sandstone pieces.				
						Brown gravelly clay.				
						Complete at 0.35m				

	Remarks Trial hole dry.		
	Scale (approx) 1:25	Logged By EW	Figure No. BL8 4LB.THE



Amended Report

Report No.:	22-25000-2		
Initial Date of Issue:	08-Jul-2022	Date of Re-Issue:	18-Jul-2022
Client	Worms Eye Ltd		
Client Address:	PO Box 1157 Colne Lancashire BB9 4HS		
Contact(s):	David Lord		
Project	BL* 4LB Higher House Farm, Hawkshaw Lane, Hawkshaw, BL8 4LB		
Quotation No.:	Q19-18671	Date Received:	04-Jul-2022
Order No.:	1/7/22	Date Instructed:	04-Jul-2022
No. of Samples:	6		
Turnaround (Wkdays):	11	Results Due:	18-Jul-2022
Date Approved:	18-Jul-2022		
Approved By:			

Details: Stuart Henderson, Technical Manager

Results - Soil

**Project: BL* 4LB Higher House Farm, Hawkshaw Lane, Hawkshaw,
BL8 4LB**

Client: Worms Eye Ltd	Chemtest Job No.:				22-25000	22-25000	22-25000	22-25000	22-25000	22-25000
Quotation No.: Q19-18671	Chemtest Sample ID.:				1460589	1460590	1460591	1460592	1460593	1460594
	Client Sample ID.:				THA	THA	THB	THC	THD	THE
	Sample Location:				THA	THA	THB	THC	THD	THE
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.5	0.2	0.2	0.2	0.2
	Date Sampled:				30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A	-		-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	27	11	22	13	17	23
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	Stones	Stones and Roots	None	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Clay	Clay	Loam	Clay	Loam	Loam
pH	M	2010		4.0	8.0	8.1	7.9	8.1	8.2	6.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.049	0.037	0.010	0.13	0.042	0.30
Sulphur (Elemental)	M	2180	mg/kg	1.0	11	1.5	6.1	1.1	2.0	9.1
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	5.0	0.50	< 0.50	< 0.50	< 0.50	1.1
Thiocyanate	M	2300	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	23	4.1	1.9	12	2.6	3.3
Sulphate (Total)	U	2430	mg/kg	100	900	640	620	700	400	1000
Arsenic	M	2455	mg/kg	0.5	18	4.9	5.9	5.1	7.9	10
Cadmium	M	2455	mg/kg	0.10	0.36	0.29	0.17	0.30	0.15	0.30
Chromium	M	2455	mg/kg	0.5	12	11	11	10	12	15
Copper	M	2455	mg/kg	0.50	42	9.1	18	11	16	30
Mercury	M	2455	mg/kg	0.05	< 0.05	0.05	0.06	< 0.05	0.09	< 0.05
Nickel	M	2455	mg/kg	0.50	18	15	10	15	8.5	14
Lead	M	2455	mg/kg	0.50	54	11	34	11	34	91
Selenium	M	2455	mg/kg	0.25	0.94	0.74	1.0	0.83	0.76	0.87
Zinc	M	2455	mg/kg	0.50	210	58	79	53	81	150
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	10	4.0	7.8	4.1	5.2	6.9
Total Organic Carbon	M	2625	%	0.20	5.9	2.3	4.5	2.4	3.0	4.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Results - Soil

Project: BL* 4LB Higher House Farm, Hawkshaw Lane, Hawkshaw,
BL8 4LB

Client: Worms Eye Ltd	Chemtest Job No.:				22-25000	22-25000	22-25000	22-25000	22-25000	22-25000
Quotation No.: Q19-18671	Chemtest Sample ID.:				1460589	1460590	1460591	1460592	1460593	1460594
	Client Sample ID.:				THA	THA	THB	THC	THD	THE
	Sample Location:				THA	THA	THB	THC	THD	THE
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.5	0.2	0.2	0.2	0.2
	Date Sampled:				30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	17
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	17
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.80	2.0
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.41	0.12
Fluoranthene	M	2700	mg/kg	0.10	4.3	< 0.10	1.6	< 0.10	1.9	5.7
Pyrene	M	2700	mg/kg	0.10	2.8	< 0.10	1.7	< 0.10	1.9	5.5
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.6	< 0.10	1.0	2.0
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	2.1	< 0.10	1.3	4.4
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.9
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.3
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.3
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.9
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.1
Total Of 16 PAH's	M	2700	mg/kg	2.0	7.1	< 2.0	7.1	< 2.0	7.4	40
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Demeton-O	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Phorate	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Demeton-S	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Disulfoton	N	2820	mg/kg	0.20			< 0.20		< 0.20	

Results - Soil

**Project: BL* 4LB Higher House Farm, Hawkshaw Lane, Hawkshaw,
BL8 4LB**

Client: Worms Eye Ltd	Chemtest Job No.:				22-25000	22-25000	22-25000	22-25000	22-25000	22-25000
Quotation No.: Q19-18671	Chemtest Sample ID.:				1460589	1460590	1460591	1460592	1460593	1460594
	Client Sample ID.:				THA	THA	THB	THC	THD	THE
	Sample Location:				THA	THA	THB	THC	THD	THE
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.5	0.2	0.2	0.2	0.2
	Date Sampled:				30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022	30-Jun-2022
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
Fenthion	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Trichloronate	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Prothiofos	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Fensulphothion	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Sulprofos	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Azinphos-Methyl	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Coumaphos	N	2820	mg/kg	0.20			< 0.20		< 0.20	
Alpha-HCH	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Beta-HCH	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Delta-HCH	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Heptachlor	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Aldrin	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Heptachlor Epoxide	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Gamma-Chlordane	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Alpha-Chlordane	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endosulfan I	N	2840	mg/kg	0.20	< 0.20			< 0.20		
4,4-DDE	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Dieldrin	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endrin	N	2840	mg/kg	0.20	< 0.20			< 0.20		
4,4-DDD	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endosulfan II	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endrin Aldehyde	N	2840	mg/kg	0.20	< 0.20			< 0.20		
4,4-DDT	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endosulfan Sulphate	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Methoxychlor	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Endrin Ketone	N	2840	mg/kg	0.20	< 0.20			< 0.20		
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: BL* 4LB Higher House Farm, Hawkshaw Lane, Hawkshaw, BL8 4LB

Chemtest Job No: 22-25000				Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1460592				Limits			
Sample Ref:				Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: THC							
Sample Location: THC							
Top Depth(m): 0.2							
Bottom Depth(m):							
Sampling Date: 30-Jun-2022							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	2.4	3	5	6
Loss On Ignition	2610	M	%	7.0	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.026	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0052	0.051	0.5	2	25
Barium	1455	U	0.007	0.071	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0024	0.024	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	< 0.0002	< 0.0002	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0005	0.4	10	40
Lead	1455	U	0.0008	0.0084	0.5	10	50
Antimony	1455	U	< 0.0005	< 0.0005	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0005	0.1	0.5	7
Zinc	1455	U	0.004	0.037	4	50	200
Chloride	1220	U	3.1	31	800	15000	25000
Fluoride	1220	U	0.14	1.4	10	150	500
Sulphate	1220	U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020	N	91	910	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	6.1	61	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	13

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

Test Methods

SOP	Title	Parameters included	Method summary
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com

HIGHER HOUSE FARM, HAWKSHAW LANE, HAWKSHAW, TOTTINGTON, BURY, BL8 4LB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 2.5% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
HEAVY METALS						
- Arsenic	18	37*	✓			
- Cadmium	0.36	11*	✓			
- Chromium III	15	910*	✓			
- Chromium VI	<0.50	6*	✓			
- Copper	42	2400*	✓			
- Lead	91	200▲	✓			
- Inorganic Mercury	0.09	40*	✓			
- Methyl Mercury	0.09	11*	✓			
- Nickel	18	180*	✓			
- Selenium	1.0	350#	✓			
- Zinc	210	3700*	✓			
OTHER INORGANICS						
- Asbestos	None detected		✓			
- Cyanide (total)	5.0	20 (D)	✓			
- pH range	6.6 – 8.2		-			
- Sulphate (g/l)	0.30	0.5 (B)	✓			
- Sulphide	23	250 (E)	✓			
- Thiocyanate	<5.0		✓			
-TOC range (%)	2.3 – 5.9		-			
-SOM Range	4.0 - 10		-			

All units mg/kg (parts per million/ppm) unless shown otherwise

Metals & inorganic values derived using 6% SOM (soil organic mater)

Sources

- Soil Guideline Values ▲ - C4SL

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(D) – Dutch (B) - BRE – Building Research Establishment (E) - EA Disposal Threshold 2002

® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

HIGHER HOUSE FARM, HAWKSHAW LANE, HAWKSHAW, TOTTINGTON, BURY, BL8 4LB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 2.5% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
PAHs						
- Acenaphthene	<0.10	510*	✓			
- Acenaphthylene	<0.10	420*	✓			
- Anthracene	0.41	5400*	✓			
- Benz(a)anthracene	2.0	11*	✓			
- Benzo(a)pyrene (BAP)*	3.3	2.7*	X			THE – 0.2m
- Benzo(b)fluoranthene	4.9	3.3*	X			THE – 0.2m
- Benzo(ghi)perylene	4.1	340*	✓			
- Benzo(k)fluoranthene	1.7	93*	✓			
- Chrysene	4.4	22*	✓			
- Dibenzo(ah)anthracene (DBA)	2.9	0.28*	X			THE – 0.2m
- Fluoranthene	5.7	560*	✓			
- Fluorene	<0.10	400*	✓			
- Indene (123-cd) pyrene	3.3	36*	✓			
- Naphthalene	<0.10	5.6*	✓			
- Phenanthrene	2.0	220*	✓			
- Pyrene	5.5	1200*	✓			
OTHER COMPOUNDS						
Phenols	<0.10	550*	✓			
Pesticides	<0.2	-	✓			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 2.5% SOM

BAP is a marker for genotoxic PAHs

Sources

- Soil Guideline Values ▲ - C4SL

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HIGHER HOUSE FARM, HAWKSHAW LANE, HAWKSHAW, TOTTINGTON, BURY, BL8 4LB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 2.5% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
BTEX COMPOUNDS						
- Benzene	<0.001	0.17*	✓			
- Toluene	<0.001	290*	✓			
- Ethyl-benzene	<0.001	110*	✓			
- Xylene - O	<0.001	140*	✓			
- M/P	<0.001	130*	✓			
TPHs						
Aliphatics						
C ₅ – C ₆	<1.0	78*	✓			
C ₆ – C ₈	<1.0	230*	✓			
C ₈ – C ₁₀	<1.0	65*	✓			
C ₁₀ – C ₁₂	<1.0	330 (118 vap)*	✓			
C ₁₂ – C ₁₆	<1.0	2400 (59 sol)*	✓			
C ₁₆ – C ₃₅	<2.0	92000 (21 sol)*	✓			
Aromatics						
C ₅ – C ₇	<1.0	140*	✓			
C ₇ – C ₈	<1.0	290*	✓			
C ₈ – C ₁₀	<1.0	83*	✓			
C ₁₀ – C ₁₂	<1.0	180*	✓			
C ₁₂ – C ₁₆	<1.0	330*	✓			
C ₁₆ – C ₂₁	<1.0	540*	✓			
C ₂₁ – C ₃₅	17	1500*	✓			

All units mg/kg (parts per million/ppm) unless shown otherwise

Hydrocarbon values derived using 2.5% SOM

Vap – vapour saturation limit Soil – solubility saturation limit

Sources

- Soil Guideline Values ▲ - C4SL

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(H) – Hazardous Waste

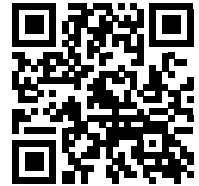
® - CLEA 1.06 Software

SSAC – Site Specific Assessment Criteria (derived with CLEA 1.06 software)

Waste Classification Report

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

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



2XM27-T2VP0-ZZS4R

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

Job name

Higher House Farm, Hawkshaw Lane, Hawkshaw, BL8 4LB

Description/Comments

Project

Higher House Farm, Hawkshaw Lane, Hawkshaw, BL8 4LB

Site

Higher House Farm, Hawkshaw Lane, Hawkshaw, BL8 4LB

Classified by

Name: **Emma Whitaker**
 Date: **08 Jul 2022 14:29 GMT**
 Telephone: **01282 414649**
 Company: **Worms Eye Ltd**
1st Floor Block C, The Wharf
Manchester Road
Burnley
BB11 1JG

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
 Hazardous Waste Classification

Date

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	THA 0.2m	0.2	Non Hazardous		2
2	THA 0.5m	0.5	Non Hazardous		4
3	THB	0.2	Non Hazardous		6
4	THC	0.2	Non Hazardous		8
5	THD	0.2	Non Hazardous		10
6	THE	0.2	Non Hazardous		12

Related documents

#	Name	Description
1	Worms Eye v3	waste stream template used to create this Job

Report

Created by: Emma Whitaker

Created date: 08 Jul 2022 14:29 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	14
Appendix B: Rationale for selection of metal species	15
Appendix C: Version	15

Classification of sample: THA 0.2m

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

Sample details

Sample name:	LoW Code:
THA 0.2m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content:	
27%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				18 mg/kg	1.32	23.766 mg/kg	0.00238 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.36 mg/kg	1.285	0.463 mg/kg	0.000036 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				42 mg/kg	1.126	47.287 mg/kg	0.00473 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				5 mg/kg	1.884	9.42 mg/kg	0.000942 %			
	006-007-00-5										
7	lead { lead chromate }			1	54 mg/kg	1.56	84.23 mg/kg	0.0054 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				18 mg/kg	1.579	28.431 mg/kg	0.00284 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				8 pH		8 pH	8pH			
11	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.94 mg/kg	1.405	1.321 mg/kg	0.000132 %			
	034-002-00-8										
13	zinc { zinc oxide }				210 mg/kg	1.245	261.39 mg/kg	0.0261 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				4.3 mg/kg		4.3 mg/kg	0.00043 %		
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-893-2	193-39-5							
Total:								0.046 %		

Key

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

Classification of sample: THA 0.5m

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

Sample details

Sample name:	LoW Code:
THA 0.5m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	
Moisture content:	
11%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **11% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				4.9	mg/kg	1.32	6.47	mg/kg	0.000647 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.29	mg/kg	1.285	0.373	mg/kg	0.000029 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	16.077	mg/kg	0.00161 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	copper { dicopper oxide; copper (I) oxide }				9.1	mg/kg	1.126	10.246	mg/kg	0.00102 %		
	029-002-00-X	215-270-7	1317-39-1									
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
	006-007-00-5											
7	lead { lead chromate }			1	11	mg/kg	1.56	17.158	mg/kg	0.0011 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.05	mg/kg	1.353	0.0677	mg/kg	0.00000677 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				15	mg/kg	1.579	23.692	mg/kg	0.00237 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				8.1	pH		8.1	pH	8.1 pH		
11	phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.74	mg/kg	1.405	1.04	mg/kg	0.000104 %		
	034-002-00-8											
13	zinc { zinc oxide }				58	mg/kg	1.245	72.193	mg/kg	0.00722 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
Total:								0.0154 %		

Key

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

Classification of sample: THB

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

Sample details

Sample name:	LoW Code:
THB	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content:	
22%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				5.9 mg/kg	1.32	7.79 mg/kg	0.000779 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.17 mg/kg	1.285	0.218 mg/kg	0.000017 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11 mg/kg	1.462	16.077 mg/kg	0.00161 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				10 mg/kg	1.579	15.795 mg/kg	0.00158 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.9 pH		7.9 pH	7.9 pH			
11	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1 mg/kg	1.405	1.405 mg/kg	0.000141 %			
	034-002-00-8										
13	zinc { zinc oxide }				79 mg/kg	1.245	98.332 mg/kg	0.00983 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
27	chrysene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-893-2	193-39-5							
Total:								0.0212 %		

Key

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

Classification of sample: THC

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

Sample details

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

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				5.1	mg/kg	1.32	6.734	mg/kg	0.000673 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.3	mg/kg	1.285	0.386	mg/kg	0.00003 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10	mg/kg	1.462	14.616	mg/kg	0.00146 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	copper { dicopper oxide; copper (I) oxide }				11	mg/kg	1.126	12.385	mg/kg	0.00124 %		
	029-002-00-X	215-270-7	1317-39-1									
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
7	lead { lead chromate }			1	11	mg/kg	1.56	17.158	mg/kg	0.0011 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				15	mg/kg	1.579	23.692	mg/kg	0.00237 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				8.1	pH		8.1	pH	8.1 pH		
11	phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.83	mg/kg	1.405	1.166	mg/kg	0.000117 %		
	034-002-00-8											
13	zinc { zinc oxide }				53	mg/kg	1.245	65.97	mg/kg	0.0066 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-893-2	193-39-5							
Total:								0.0149 %		

Key

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

Classification of sample: THD

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

Sample details

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

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				7.9 mg/kg	1.32	10.431 mg/kg	0.00104 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.15 mg/kg	1.285	0.193 mg/kg	0.000015 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
7	lead { lead chromate }			1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.09 mg/kg	1.353	0.122 mg/kg	0.0000122 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				8.5 mg/kg	1.579	13.426 mg/kg	0.00134 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				8.2 pH		8.2 pH	8.2 pH			
11	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.76 mg/kg	1.405	1.068 mg/kg	0.000107 %			
	034-002-00-8										
13	zinc { zinc oxide }				81 mg/kg	1.245	100.822 mg/kg	0.0101 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				0.41 mg/kg		0.41 mg/kg	0.000041 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				1 mg/kg		1 mg/kg	0.0001 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
27	chrysene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-893-2	193-39-5							
Total:								0.0213 %		

Key

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

Classification of sample: THE

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

Sample details

Sample name:	LoW Code:
THE	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content:	
23%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203 mg/kg	0.00132 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.3 mg/kg	1.285	0.386 mg/kg	0.00003 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				30 mg/kg	1.126	33.777 mg/kg	0.00338 %			
	029-002-00-X	215-270-7	1317-39-1								
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.1 mg/kg	1.884	2.072 mg/kg	0.000207 %			
	006-007-00-5										
7	lead { lead chromate }			1	91 mg/kg	1.56	141.943 mg/kg	0.0091 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				14 mg/kg	1.579	22.113 mg/kg	0.00221 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				6.6 pH		6.6 pH	6.6 pH			
11	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.87 mg/kg	1.405	1.222 mg/kg	0.000122 %			
	034-002-00-8										
13	zinc { zinc oxide }				150 mg/kg	1.245	186.707 mg/kg	0.0187 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				17 mg/kg		17 mg/kg	0.0017 %		
			TPH							
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	anthracene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				2 mg/kg		2 mg/kg	0.0002 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				3.3 mg/kg		3.3 mg/kg	0.00033 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				4.9 mg/kg		4.9 mg/kg	0.00049 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				4.1 mg/kg		4.1 mg/kg	0.00041 %		
		205-883-8	191-24-2							
27	chrysene				4.4 mg/kg		4.4 mg/kg	0.00044 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				5.7 mg/kg		5.7 mg/kg	0.00057 %		
		205-912-4	206-44-0							
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-893-2	193-39-5							
Total:								0.042 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Below threshold.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

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

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

Worst case species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc oxide}

Suspected

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2022.188.5235.9829 (07 Jul 2022)

HazWasteOnline Database: 2022.188.5235.9829 (07 Jul 2022)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

PROPOSED PLAN - SHOWING PROPOSED REMEDIAL WORKS
HIGHER HOUSE FARM, 14 HAWKSHAW LANE, TOTTINGTON, BURY, BL8 4LB
NOT TO SCALE

