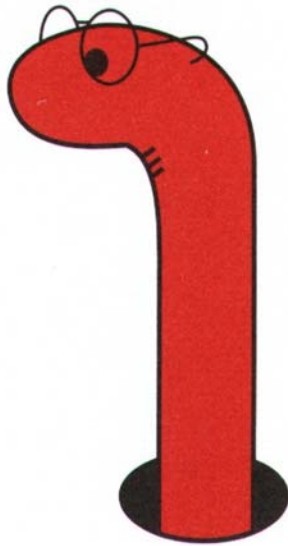


Electronic Report



WORMS EYE

Worms Eye Limited
PO Box 1157
COLNE
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info@wormseye.co.uk

Our Ref: Baildon Road / OL12 7NB / 2022
Date: 3 November 2022

Tom Duffy
Admiral Property Developments Ltd
2 Somersby Drive
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Bolton
BL7 9PX

tomduffy32@ymail.com

LAND OFF BAILDON ROAD, ROCHDALE, OL12 7NB
INTRUSIVE REPORT – INTERIM REPORT

INTRODUCTION

A residential development is proposed. Following a Preliminary Risk Assessment (PRA 20/9/22) instructions were to carry out boreholes and tests to investigate geotechnical and contamination issues.

SITE LOCATION

The site is a rectangular plot, 17 x 15m, located to the southeast of Baildon Road in Rochdale, and at OS Grid Reference 387737, 414073. The site comprises a domestic garage colony having two garages with suspected asbestos sheet cement roofs at the southwest, and the remainder being hardcore or overgrown grass surfaced. There are deciduous trees (up to 10-12m high) and bushes along the northwest boundary (this is not an arboricultural survey).

There is a sub-station and garage to the northeast, and houses to the southeast, southwest and northwest. The area slopes down to the southeast.

PROPOSED DEVELOPMENT

It is proposed to build a block of three town houses on the northwest of the site, having gardens to the rear (southeast) and landscaping to the front (northwest).

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PRELIMINARY RISK ASSESSMENT

Worms Eye carried out a PRA dated 20/9/22, the salient points were:

Contamination

The site is a domestic garage colony. Although not usually a source of high levels of contaminants, levels usually exceed stringent residential thresholds. Contaminants may be present from made ground, from repairs to or leaks from vehicles or from building materials. A sub-station immediately northeast can be a source of PCBs, however, these do not usually migrate far from their source and if present would be expected to concentrate close to the sub-station.

The proposed development will be houses with gardens. Potential pollutant linkages are:

- Direct contact and ingestion of soil.
- From homegrown vegetables and soil attached to vegetables.
- Inhalation and ingestion of dust.
- Sulphate attack on buried concrete.
- Contaminants entering drinking water pipes.

Contaminants are not expected at high levels but are expected to exceed stringent residential thresholds. A moderate risk is anticipated. The sub-station is a point source for PCBs.

Controlled Waters

There is an underlying Secondary A aquifer, beneath clay, and there are no nearby water abstraction points or source protection zones. A stream/field drain issues 198m south and flows southeast.

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 considered necessary at this stage.

Landfill Gas/Ground Gas/Radon

Radon protection measures are not required.

There are no landfill sites within 250m. Two reservoirs/mill ponds 185m southeast, are small, their size suggests limited material for gas generation, and their age, filled circa 1950s, suggests material is likely to be largely inert. A low gas generation potential is expected, and bearing in mind the underlying clay, these are not considered a risk to the site.

A suspected brickfield, to the north and northwest, has no indication of being a clay pit. A slope to the north and northwest suggests a level area created by cutting into the slope and existing houses at a higher level to the northwest and lower level to the southeast suggest no widespread filling.

PRA Re-Cap Continued

A suspected pond 75m northeast, close to the brick works, is suggested to be a raised feature by the mapping, possibly an artificially created lagoon which was dug out when the area was developed.

The findings show no credible, on or off-site, landfill or ground gas sources and therefore no gas risk to the development. Gas testing is not needed and no special precautions are required.

Foundations

Clay is expected which often provides a good bearing strata for traditional shallow foundations. If foundations are to be on clay the shrinkage potential of the clay needs to be determined.

Industry Profile

The site is a domestic garage colony with adjacent sub-station.

Industry	Possible Contaminants
Domestic Garage Colony	Metals: copper, zinc, chromium, nickel, lead, cadmium, arsenic, Inorganic compounds: cyanide, sulphates Phenols Mineral oils, fuel oils (TPHs) Asbestos General hydrocarbons (PAHs)
Sub-station	PCBs

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	Yes
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
	Service pipes	Seeping into drinking water pipes	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

GROUND INVESTIGATIONS

Four boreholes, one dynamic probe and one trial hole were carried out. Each borehole was preceded by a shallow trial hole. Details are given on the enclosed location plan, borehole logs, trial hole logs and dynamic probe log.

Made ground (typically topsoil with brick, concrete, stone, glass) was encountered in each location. This was overlain by a thin tarmac (40mm) and an ash sub-base (30mm in TH5).

In TH/BH4 and TH5 the made ground was underlain by topsoil at 0.7m and 0.9m respectively.

Clay was present below the made ground in TH/BH1, 2 and 3 at 1.0m, 0.85m and 0.6m, and below the topsoil in TH/BH4 at 1.05m.

High strength clay was seen by about 1 – 1.4m, with a thin band of sand at 1.9m in TH/BH1 and TH/BH3, underlain by medium strength clay before refusing in high strength clay by 2.9m (TH/BH1) and 2.2m (TH/BH3).

The boreholes continued in high strength clay to their base at about 5.5m to 6.0m.

TH5 was stopped at 1.0m deep.

The following approximates to a section looking north.

Findings	TH/BH2 (m)	TH/BH1 (m)	TH/BH4/PrA (m)	TH/BH3 (m)	TH5 (m)
Made ground	0.0 – 0.85	0.0 – 1.0	0.0 – 0.7	0.0 – 0.6	0.0 – 0.9
Topsoil	-	-	0.7 – 1.05	-	0.9 – 1.0+
Clay	0.85 – 1.1	-	1.05 – 1.4	0.6 – 1.2	-
High strength clay	-	1.0 – 2.1 *	-	1.2 – 2.1 *	-
Medium strength clay	-	2.1 – 2.9	-	2.1 – 2.2	-
High strength clay	1.1 – 5.6+	2.9 – 5.8+	1.4 – 6.0+	2.2 – 6.0+	-
Probe (very high strength)	-	-	6.3 – 8.7+	-	-

* Sand band 1.9 – 2.1m

CONTAMINATION TESTING

Seven samples (five shallow and two deeper) were tested for a range of contaminants indicated by the PRA. The results are included in table form with this report.

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 – Chrysotile and crocidolite asbestos fibres (2.2%) were seen in TH1 at 0.25m.

Inorganics (metals etc.) – Arsenic exceeds the residential threshold in TH5 at 0.25m and lead exceeds the threshold in TH/BH3, TH/BH4 and TH5 at 0.3m.

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

Hydrocarbons – Phenols and TPHs are below their respective residential thresholds. Regarding PAHs, the following exceed residential thresholds:

- Benz(a)anthracene - TH/BH2 and TH/BH4 at 0.25m
- Benzo(a)pyrene - TH/BH1, 2, 3, 4 and TH5 at 0.25m, and TH/BH1 at 0.90m
- Benzo(b)fluoranthene - TH/BH1, 2, 3, 4 and TH5 at 0.25m, and TH/BH1 at 0.90m
- Benzo(ghi)perylene - TH/BH2 at 0.25m
- Dibenzo(ah)anthracene (DBA) - TH/BH1, 2, 3, 4 and TH5 at 0.25m, and TH/BH1 at 0.90m

PCBs – PCBs are very low and below the threshold.

Drinking Water Pipes - Comparing results against trigger levels for drinking water pipes shows levels of C12-16 (TH/BH3 at 0.25m) and C16-40 TPHs (TH/BH3 and TH5 at 0.25m) exceed the trigger level, but levels at an appropriate depth (0.9m) and location (TH/BH1 and 2) are below the trigger level.

DISPOSAL OF EXCAVATED SOIL

Results have been compared with hazardous waste thresholds and a Hazwaste Report is enclosed. This suggests excavated soil from around TH5 would be classed as hazardous waste, but excavated soils elsewhere should not be classed as hazardous waste.

Levels of Total Organic Carbon (TOC) exceed the threshold for disposal at hazardous waste landfill without treatment in TH/BH3 and TH5, levels in TH/BH1 and 2 exceed the threshold for inert waste landfill, PAHs in TH/BH2, 3, 4 and TH5 exceed the threshold for inert waste landfill.

PLASTICITY TESTS

Two samples of clay have been tested to determine their plasticity index (PI). These results will be issued when available.

DISCUSSION

Contamination

Contamination tests show the following exceed residential thresholds.

Trial Hole	Depth (m)	Asbestos	Arsenic	Lead	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Dibenzo(ah)anthracene
TH/BH1	0.25	✓				✓	✓		✓
TH/BH1	0.9					✓	✓		✓
TH/BH2	0.25				✓	✓	✓	✓	✓
TH/BH3	0.25			✓		✓	✓		✓
TH/BH4	0.25			✓	✓	✓	✓		✓
TH5	0.25		✓	✓		✓	✓		✓

The risks from these arise from householders having direct contact with surface soils and enclosed CLEA calculations show this. Raised levels of contaminants are present across the site and, therefore, there is a risk to householders wherever direct contact may occur. Remedial works are therefore required in those areas to remove the risk to householders. Being non-volatile the contaminants can remain below the houses with no risk.

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

The tests results suggest, subject to approval, the site is suitable for normal PE water pipes.

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

Excavated Soils

Results suggest excavated soil from around TH5 would be classed as hazardous waste, but excavated soils elsewhere should not be classed as hazardous.

TOC exceeds the threshold for hazardous waste landfill in TH/BH3 and TH5, levels in TH/BH1 and 2 exceed the threshold for inert waste landfill, and PAHs in TH/BH2, 3, 4 and TH5 exceed the threshold for inert waste landfill.

Controlled Waters

Regarding risks to controlled waters:

- The site is underlain by a Secondary A aquifer.
- The nearest water course is a stream/drain 198m south.
- Made ground with elevated levels of contaminants at shallow depth will be taken away or covered, considerably reducing the opportunity for leaching.
- Clay underlying the site will be an aquitard.
- Underlying mudstone will be an aquitard.
- There are no nearby source protection zones.
- There are no nearby water abstraction points.
- The site is small and, on completion, will be significantly covered by the buildings.

Bearing in mind all of the above factors, it is considered that risks to controlled waters are very low and that no significant pathway will arise.

Landfill Gas/Ground Gas

The findings of the phase 1 report show no credible, on or off-site, landfill or ground gas sources and therefore no gas risk to the development.

Foundations

The following is subject to findings at plasticity tests.

Variable made ground was seen at shallow depth which is not suitable for strip footings.

This was underlain by high strength clay which would be suitable for strip footings with an allowable bearing capacity of 220kN/m² at 1m at the northwest (TH/BH1) deepening to 1.2m at the northeast/southwest (TH/BH2 and 3) and down to 1.4m at the southeast (TH/BH4).

For a consistent depth, footings could be taken down to 1.4m.

An alternative would be a reinforced concrete raft, on a rolled and compacted formation, with an allowable bearing capacity of 50kN/m².

CONCEPTUAL MODEL

Source	Receptors	Pathway	Complete Pollutant Linkage
Asbestos (fibres present in TH/BH1 at 0.25m)	End-users	Inhalation	Yes
	Off-site	Migration off-site	Yes
Inorganic contaminants (raised arsenic/lead)	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Sulphate (low)	Building fabric	Concrete directly in contact with soil	No
Hydrocarbons (raised PAHs)	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Service pipes	Seeping into drinking water pipes	No
	Groundwater	Leaching towards	No
	River/stream	Leaching towards	No
Hydrocarbon vapours (very 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.

Vehicles carrying contaminated material should be covered the those crossing the site should have the wheels/undercarriages cleaned.

Asbestos

Asbestos fibres in TH/BH1 at 0.25m pose a risk to site workers and potentially neighbouring land. Appropriate precautions will be required when working in that area which may include:

- Appropriate face masks and PPE.
-
- Damping down and minimising time excavations are exposed.
- Not stockpiling excavated soils.

Risk assessment and method statements will be required.

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 asbestos, arsenic, lead and PAHs was found to be present in made ground across the site. One method would be to remove the source by excavating the contaminated material beneath gardens, paths, patios and other non-permanent hard-surfaced areas and disposing off site.

- Excavate contaminated soils to a minimum 600mm below finished ground level, below gardens, paths, patios and other non-permanent hard-surfaced areas across the site.
- Dispose excavated soils off-site.
- Backfill with clean, imported soils, comprising (bottom up):
 - Geotextile (or similar) warning barrier
 - 450mm sub-soil (gardens) or 550mm sub-soil (non-garden areas)
 - 150mm topsoil (gardens)

An alternative would be to create a minimum 600mm cover layer across the site as follows (bottom up):

- Geotextile (or similar) warning barrier
- 450mm sub-soil (gardens) or 550mm sub-soil (non-garden areas)
- 150mm topsoil (gardens)

However, a cover layer will significantly raise the level of the site and likely require retaining structures around the site. This will also leave contaminated soils on site, potentially increasing the risk to controlled waters and nearby properties. This is not considered a suitable solution.

Excavated Soils

Excavated soil from around TH5 would be classed as hazardous waste, but excavated soils elsewhere should not be classed as hazardous waste.

TOC exceeds the threshold for hazardous waste landfill in TH/BH3 and TH5, levels in TH/BH1 and 2 exceed the threshold for inert waste landfill, and PAHs in TH/BH2, 3, 4 and TH5 exceed the threshold for inert waste landfill.

The results should be issued to the receiving site for contamination 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.

This report is usually a collaboration between the contractor, who will collect the above documentation and Worms Eye, who can assist in preparing the Validation Report

OPINION

Contaminated Soils

Test results show a risk to householders wherever direct contact may occur, due to asbestos fibres and raised levels of arsenic, lead and PAHs. There is no risk below the house footprints but remedial works are required around the site, outside the building line. The following is suggested:

- Excavate contaminated soils to a minimum 600mm below finished ground level below gardens, paths, patios and other non-permanent hard-surfaced areas on the southwest/middle of the site.
- Backfill with clean, imported, soils including, a geotextile warning barrier.

A cover layer will significantly raise the level of the site and likely require retaining structures around the site. This will also leave contaminated soils on site, potentially increasing the risk to controlled waters and nearby properties. This is therefore, not considered a suitable solution.

Sulphate resistant concrete is not required.

There are no risks from hydrocarbon vapours.

Subject to approval the site is suitable for the use of normal PE water pipes.

Excavated Soils

TOC exceeds the threshold for hazardous waste landfill in TH/BH3 and TH5, levels in TH/BH1 and 2 exceed the threshold for inert waste landfill, and PAHs in TH/BH2, 3, 4 and TH5 exceed the threshold for inert waste landfill.

Levels of TOC may pose difficulties for disposal off-site to landfill and the results should be passed to the receiving site for confirmation of its strata.

Controlled Waters

Risks to controlled waters are considered very low and no further action is required.

Gas Testing

The findings show no credible, on or off-site, landfill or ground gas sources and therefore no gas risk to the development.

Foundations

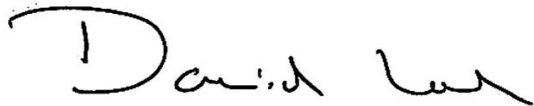
The following is subject to findings of plasticity tests.

One foundation solution is strip footings on high strength clay, with an allowable bearing capacity of 220kN/m^2 , at 1m at the northwest (TH/BH1) deepening to 1.2m at the northeast/southwest (TH/BH2 and 3) and down to 1.4m at the southeast (TH/BH4).

For a consistent depth, footings could be taken down to 1.4m.

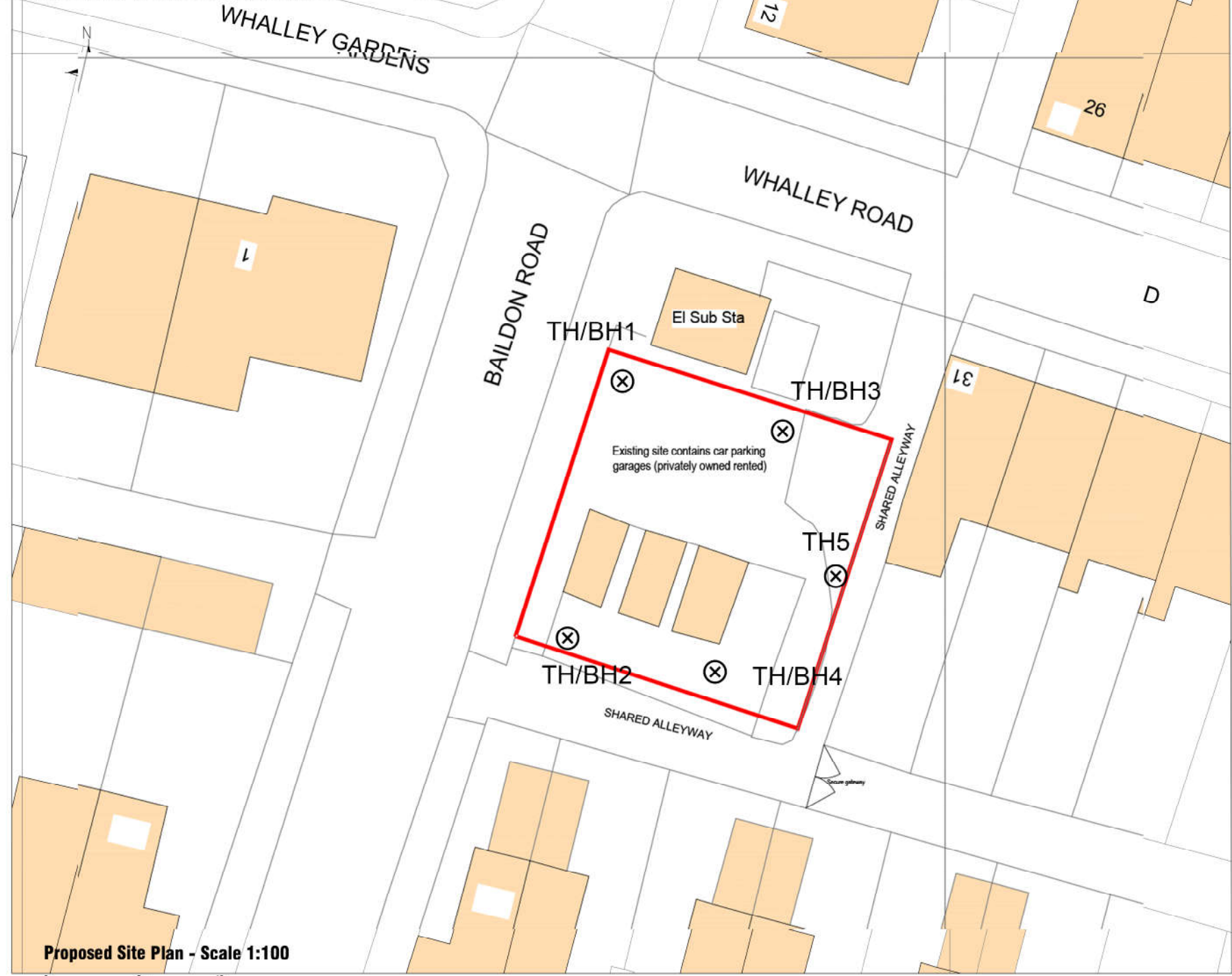
An alternative would be a reinforced concrete raft, on a rolled and compacted formation, with an allowable bearing capacity of 50kN/m^2 .

Yours faithfully
on behalf of Worms Eye Ltd

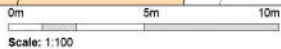
A handwritten signature in black ink, appearing to read 'David Lord', with a stylized, cursive script.

David Lord
BSc (Hons)
FGS, MEnvSc, AIEMA

Land at Baildon Road, Cutgate, Rochdale



Proposed Site Plan - Scale 1:100



Details

Gross Site Area - 242m² (edged red)

KEY

- Paved footpath/patio areas
- Landscape buffer areas with shrub planting
- Landscaped/turfed areas to front garden areas
- 1.8m high close boarded timber fence
- Proposed Secure pedestrian gates

SUDS -SUSTAINABLE URBAN DRAINAGE SYSTEM

VEHICLE PARKING AREAS NOT WITHIN TREE ROOT PROTECTION ZONES TO BE MARSHALLS DRIVESETT PRIOR PERMEABLE BLOCK PAVERS (60mm DEEP) ON 50mm CLEAN CRUSHED STONE BEDDING (6mm NOMINAL STONE SIZE) ON D1p1 200mm DEEP HARDCORE SUB-BASE TO ALLOW NATURAL DRAINAGE OF SURFACE WATER

SURFACE WATER FROM ROOF TO BE COLLECTED INTO 210l WATER BUTTS TO RAINWATER DOWNPIPES AT REAR OF DWELLING WITH OVERFLOW INTO EXISTING SYSTEM TO MINIMISE RUN OFF AND TO ENCOURAGE RAINWATER HARVESTING

Rev A - Minor note changes, MDG 17.08.2022

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Chartered Institute of
Architectural Technologists
Registered Practice

Project
**Land at Baildon Road, Cutgate,
Rochdale OL12 7NG**

Title
**Housing Site development
PROPOSED SITE LAYOUT**

Scale @ A1 1:100	Date June 2022	Ref Job 1071	Drawn MDG
Day No 1071/BRR/SLP	Rev A		

Land at Baildon Road, Cutgate, Rochdale

WHALLEY GARDENS

BAILDON ROAD

WHALLEY ROAD

TH/BH1

TH/BH3

TH5

TH/BH2

TH/BH4

El Sub Sta

Interface distances of proposed houses no worse than 12 to 22 Baildon Road. Rochdale SPD residential standards clause 4.3 refers to exceptions in situations such as the application site.

Defensible rear garden space to each property

On street parking to each property frontage as per other similar properties in the locality

1.0m high wrought iron railing in contemporary design with vertical bar and secondary cross bar to front garden spaces with matching gates

Rear gate access to central housing plot taken from shared alleyway

Refuse and recycling storage to rear garden areas and collection from kerbside

1.8m high timber close boarded fencing enclosure to side and rear garden boundaries detailed CB

Secure gateway

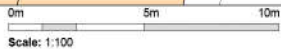
Blank single storey rear gate

Blank two storey rear gate

Blank two storey side gate

Two storey rear projection with windows to rear only and blank side gate

Proposed Site Plan - Scale 1:100



Details

Gross Site Area - 242m² (edged red)

KEY

- Paved footpath/patio areas
- Landscape buffer areas with shrub planting
- Landscaped/turfed areas to front garden areas
- 1.8m high close boarded timber fence
- Proposed Secure pedestrian gates

SUDS -SUSTAINABLE URBAN DRAINAGE SYSTEM

VEHICLE PARKING AREAS NOT WITHIN TREE ROO PROTECTION ZONES TO BE MARSHALLS DRIVESETT PRIORA PERMEABLE BLOCK PAVERS (60mm DEEP) ON 50mm CLEAN CRUSHED STONE BEDDING (6mm NOMINAL STONE SIZE) ON DT p1 200mm DEEP HARDCORE SUB-BASE TO ALLOW NATURAL DRAINAGE OF SURFACE WATER

SURFACE WATER FROM ROOF TO BE COLLECTED INTO 210l WATER BUTTS TO RAINWATER DOWNPIPES AT REAR OF DWELLING WITH OVERFLOW INTO EXISTING SYSTEM TO MINIMISE RUN OFF AND TO ENCOURAGE RAINWATER HARVESTING

Rev A - Minor note changes. MDS 17.08.2022

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CIAT Registered practice

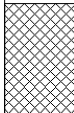
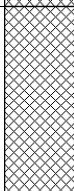
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email: info@betterplace.co.uk

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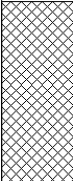
Project
Land at Baildon Road, Cutgate, Rochdale OL12 7NG

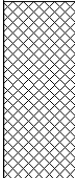
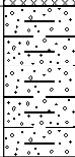
Title
**Housing Site development
PROPOSED SITE LAYOUT**

Scale @ A1 1:100	Date June 2022	Ref Job 1071	Drawn MDG
Day No 1071/BRR/SLP		Rev A	

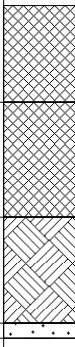
Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Trial Pit Number TH/BH1	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Northwest corner - See BH1		Dates 04/10/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
						MADE GROUND (Topsoil with brick, concrete, stone and glass).			
					0.38	Very dry orange/brown clay with stone and brick piece (possible MADE GROUND).			
					(0.62)				
					1.00	Complete at 1.00m			

	Remarks Continued as BH1.		
	Scale (approx) 1:25	Logged By EW	Figure No. OL12 7NB.TH/BH1

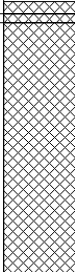
Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Trial Pit Number TH/BH2	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Southwest corner - See BH2		Dates 04/10/2022		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
					(0.62)	MADE GROUND (Topsoil with brick, concrete, stone and glass).			
					0.62 (0.23)	MADE GROUND (Orange/brown very dry clay with gravel and occasional brick fragments, with layer of stone at base).			
					0.85 (0.15)	Soft brown sandy CLAY.			
					1.00	Complete at 1.00m			
									
Remarks Continued as BH2.									
Scale (approx) 1:25						Logged By EW		Figure No. OL12 7NB.TH/BH2	

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Trial Pit Number TH/BH3	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Towards northeast - See BH3		Dates 04/10/2022		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 overlying MADE GROUND (Brick, stone, sandy soil with occasional clinker).			
					(0.60)				
					0.60	Very dry, brown, sandy, gravelly clay, too dry to test.			
					(0.50)				
					1.10	Complete at 1.10m			

	Remarks Continued as BH3.		
	Scale (approx) 1:25	Logged By EW	Figure No. OL12 7NB.TH/BH3

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Trial Pit Number TH/BH4	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Southeast corner - See BH4		Dates 04/10/2022		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
									
					0.32	MADE GROUND (Black topsoil with brick, stone and clinker).			
					0.38	MADE GROUND (Orange/brown/grey clay with stone and rare brick fragments, re-worked soil).			
					0.70	Very soft, brown/grey clayey former topsoil.			
					1.05	Very soft, dark brown sandy clay.			
					1.10	Complete at 1.10m			

	Remarks Continued as BH4.		
	Scale (approx) 1:25	Logged By EW	Figure No. OL12 7NB.TH/BH4

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Trial Pit Number TH5		
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client			Job Number OL12 7NB	
		Location Southeast/middle		Dates 04/10/2022		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
					0.04	Tarmac	MADE GROUND (Black ash sub-base).	MADE GROUND (Brown ash/clinker with brick, stone, slate and glass).		
					0.07					
					0.90	Grey/brown clayey former topsoil with occasional roots.				
					(0.83)					
					1.10	Complete at 1.10m				

	Remarks		
	Scale (approx) 1:25	Logged By EW	Figure No. OL12 7NB.TH5

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Baildon Road, Rochdale		Number BH1	
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB
		Location Northwest corner - See TH1		Dates 11/10/2022		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
1.00-1.45	SPT N=8		1,2/2,2,2,2		(1.00)	See TH1.		
					1.00	High strength, brown and grey mottled, sandy, gravelly CLAY with rootlets visible up to 1.6m deep and rare coal fragments.		
1.50	VANE 108kPa		1,1/1,2,1,1		(0.80)			
1.90-2.35	SPT N=5				1.80 (0.30)	Brown, very sandy CLAY/very clayey SAND.		
2.70	VANE 55kPa				2.10	Medium strength, greyish/brown, sandy, very gravelly CLAY with rare fragments of coal.		
					(0.80)			
3.10-3.55	SPT N=12		1,4/4,3,2,3		2.90	High strength, greyish/brown, sandy, very gravelly CLAY with rare fragments of coal (the gravel was sandstone and dark grey mudstone).		
3.80	VANE 130kPa							
4.60	VANE 130kPa				(2.90)			
					5.80	Complete at 5.80m		
Remarks See TH1.							Scale (approx) 1:50	Logged By EW
							Figure No. OL12 7NB.BH1	

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS					Site Baildon Road, Rochdale			Number BH2
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)	Client			Job Number OL12 7NB
		Location Southwest corner - See TH2		Dates 11/10/2022	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
						See BH2.		
					(1.00)			
					1.00			
					1.10	Brown, sandy, gravelly CLAY.		
						High strength, greyish/brown, sandy, gravelly CLAY with rare fragments of coal (the gravel was sandstone and dark grey mudstone).		
1.90	VANE 110kPa		1,1/2,2,3,2					
1.90-2.35	SPT N=9							
2.60	VANE 130kPa		2,3/2,3,3,2					
2.70-3.15	SPT N=10							
3.40	VANE 126kPa				(4.50)			
3.90-4.35	SPT N=15		3,3/4,3,4,4					
4.80	VANE 130kPa							
					5.60	Complete at 5.60m		
Remarks See TH2.							Scale (approx) 1:50	Logged By EW
							Figure No. OL12 7NB.BH2	

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Number BH3	
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Towards northeast - See TH3		Dates 11/10/2022		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
1.10-1.55	SPT N=9		1,2/2,2,2,3			See BH3.			
					(1.00)				
					1.00 (0.20) 1.20	Soft, brown and grey mottled, sandy CLAY.			
1.60	VANE 130kPa	1,1/1,1,2,5			(0.70)	High strength, brown and grey motteld, sandy, gravelly CLAY with rare fragments of coal and rare brown sandstone cobbles.			
1.90-2.35	SPT N=9				1.90 (0.20) 2.10 2.20	Brown, very clayey SAND.			
2.50	VANE 118kPa					Medium strength, greyish/brown, sandy, gravelly CLAY with rare fragments of coal (the gravel was sandstone and dark grey mudstone).			
3.50-3.95	SPT N=8		2,3/2,2,2,2			High strength, greyish/brown, sandy, very gravelly CLAY with rare fragments of coal (the gravel was sandstone and dark grey mudstone).			
					(3.80)				
					4.10	VANE 130kPa			
5.20	VANE 130kPa								
					6.00				
					Complete at 6.00m				
Remarks See TH3.								Scale (approx) 1:50	Logged By EW
								Figure No. OL12 7NB.BH3	

Worms Eye Limited				PO Box 1157 COLNE, BB9 4HS		Site Baildon Road, Rochdale		Number BH4	
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client		Job Number OL12 7NB	
		Location Southeast corner - See TH4 and Probe 4		Dates 11/10/2022		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
1.20	VANE 42kPa					See TH4.			
					(1.00)				
					1.00 (0.20)	Soft, dark grey, sandy, very silty CLAY.			
					1.20 (0.20)	Medium strength, brown and grey mottled, sandy, gravelly CLAY.			
2.10	VANE 130kPa				1.40 (1.10)	High strength, brown and grey mottled, sandy, gravelly CLAY with fragments of coal and rootlets visible up to 1.6m deep and with rare stone cobbles.			
2.70	VANE 130kPa				2.50	High strength, dark grey, sandy, very gravelly CLAY with rare fragments of coal.			
3.60	VANE 110kPa								
					(3.50)				
					6.00	Complete at 6.00m			
Remarks See TH4 and Probe 4.								Scale (approx) 1:50	Logged By EW
								Figure No. OL12 7NB.BH4	



Amended Report

Report No.:	22-38098-2		
Initial Date of Issue:	18-Oct-2022	Date of Re-Issue:	20-Oct-2022
Client	Worms Eye Ltd		
Client Address:	PO Box 1157 Colne Lancashire BB9 4HS		
Contact(s):	David Lord		
Project	OL12 7NB Baildon Road, Rochdale, OL12 7NB		
Quotation No.:	Q19-18671	Date Received:	06-Oct-2022
Order No.:		Date Instructed:	19-Oct-2022
No. of Samples:	7		
Turnaround (Wkdays):	4	Results Due:	24-Oct-2022
Date Approved:	20-Oct-2022		
Approved By:			

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.:					22-38098	22-38098	22-38098	22-38098	22-38098	22-38098	22-38098
Quotation No.: Q19-18671	Chemtest Sample ID.:					1519538	1519539	1519540	1519541	1519542	1519543	1519544
	Client Sample ID.:					TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Location:					TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.25	0.90	0.25	0.90	0.25	0.25	0.25
	Date Sampled:					04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022
	Asbestos Lab:					DURHAM		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	Cement			-		-	-	-
Asbestos Identification	U	2192		N/A	Chrysotile Crocidolite			No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	2.2							
Total Asbestos	U	2192	%	0.001	2.2							
Moisture	N	2030	%	0.020	18	9.9	20	13	15	15	20	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones and Roots	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	7.3	6.4	7.2	7.8	7.7	8.0	8.0	8.0
Electrical Conductivity (2:1)	N	2020	µS/cm	1.0		320		440				
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.010		< 0.010		< 0.010	0.018	0.053	
Redox Potential	N	2150	mV	N/A		130		120				
Sulphur (Elemental)	M	2180	mg/kg	1.0	11		36		20	35	44	
Cyanide (Free)	M	2300	mg/kg	0.50	[B] < 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	[B] < 0.50		0.60		< 0.50	< 0.50	< 0.50	< 0.50
Thiocyanate	M	2300	mg/kg	5.0	[B] < 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	2.9		5.8		11	8.0	8.5	
Sulphate (Total)	U	2430	mg/kg	100	910		1100		1000	1200	2500	
Arsenic	M	2455	mg/kg	0.5	9.8		6.0		9.9	18	49	
Cadmium	M	2455	mg/kg	0.10	0.23		0.15		0.28	0.30	0.32	
Chromium	M	2455	mg/kg	0.5	7.9		6.4		9.4	12	20	
Copper	M	2455	mg/kg	0.50	28		29		66	90	190	
Mercury	M	2455	mg/kg	0.05	0.08		0.06		0.06	0.10	0.07	
Nickel	M	2455	mg/kg	0.50	9.7		11		18	25	50	
Lead	M	2455	mg/kg	0.50	70		62		220	260	340	
Selenium	M	2455	mg/kg	0.25	0.33		< 0.25		< 0.25	0.68	1.4	
Zinc	M	2455	mg/kg	0.50	98		110		90	120	130	
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		8.5		12	31	14	
Total Organic Carbon	M	2625	%	0.20	5.8		4.9		7.1	18	7.9	
Aliphatic TPH >C5-C6	N	2680	mg/kg	0.010	[B] < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C6-C8	N	2680	mg/kg	0.010	[B] < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C8-C10	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	14	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.: 22-38098											
Quotation No.: Q19-18671	Chemtest Sample ID.: 1519538											
	Client Sample ID.:		TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5			
	Sample Location:		TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5			
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
	Top Depth (m):		0.25	0.90	0.25	0.90	0.25	0.25	0.25			
	Date Sampled:		04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022			
	Asbestos Lab:		DURHAM		DURHAM		DURHAM	DURHAM	DURHAM			
Determinand	Accred.	SOP	Units	LOD								
Aliphatic TPH >C21-C35	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	2680	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	14	< 1.0	< 1.0	< 1.0
Aromatic TPH >C5-C7	N	2680	mg/kg	0.010	[B] < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C7-C8	N	2680	mg/kg	0.010	[B] < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C8-C10	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	2680	mg/kg	0.10	[B] 42	15	< 0.10	< 0.10	41	< 0.10	23	
Aromatic TPH >C21-C35	N	2680	mg/kg	0.10	[B] 300	240	< 0.10	< 0.10	490	< 0.10	1500	
Aromatic TPH >C35-C44	N	2680	mg/kg	0.10	[B] < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	2680	mg/kg	1.0	[B] 340	250	< 1.0	< 1.0	540	< 1.0	1500	
Total Petroleum Hydrocarbons	N	2680	mg/kg	2.0	[B] 340	250	< 2.0	< 2.0	550	< 2.0	1500	
Naphthalene	M	2700	mg/kg	0.10	0.83		2.9		2.2	2.4	1.3	
Acenaphthylene	M	2700	mg/kg	0.10	0.64		1.1		0.39	1.4	0.46	
Acenaphthene	M	2700	mg/kg	0.10	1.3		5.5		2.0	2.4	1.2	
Fluorene	M	2700	mg/kg	0.10	1.7		5.3		2.2	2.5	1.1	
Phenanthrene	M	2700	mg/kg	0.10	7.6		36		14	18	9.3	
Anthracene	M	2700	mg/kg	0.10	1.8		8.3		3.3	4.7	2.4	
Fluoranthene	M	2700	mg/kg	0.10	12		55		21	32	17	
Pyrene	M	2700	mg/kg	0.10	12		53		21	32	17	
Benzo[a]anthracene	M	2700	mg/kg	0.10	5.4		24		9.8	15	8.0	
Chrysene	M	2700	mg/kg	0.10	8.5		35		14	13	9.4	
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	6.4		34		12	19	12	
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	1.9		13		6.9	7.5	5.2	
Benzo[a]pyrene	M	2700	mg/kg	0.10	5.4		26		9.8	16	10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	3.3		16		6.1	9.5	6.5	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	1.1		5.1		1.8	2.9	1.6	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	3.7		16		9.3	8.7	6.9	
Total Of 16 PAH's	M	2700	mg/kg	2.0	74		340		140	190	110	
Dichlorodifluoromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Chloromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Vinyl Chloride	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Bromomethane	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Chloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Trichlorofluoromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20				
1,1-Dichloroethene	N	2760	µg/kg	0.20		< 0.20		< 0.20				
Trans 1,2-Dichloroethene	N	2760	µg/kg	0.20		< 0.20		< 0.20				

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.:		22-38098	22-38098	22-38098	22-38098	22-38098	22-38098	22-38098
Quotation No.: Q19-18671	Chemtest Sample ID.:		1519538	1519539	1519540	1519541	1519542	1519543	1519544
	Client Sample ID.:		TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Location:		TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.25	0.90	0.25	0.90	0.25	0.25	0.25
	Date Sampled:		04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022
	Asbestos Lab:		DURHAM		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
1,1-Dichloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
cis 1,2-Dichloroethene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Bromochloromethane	N	2760	µg/kg	0.50		< 0.50		< 0.50	
Trichloromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,1,1-Trichloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Tetrachloromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,1-Dichloropropene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Benzene	N	2760	µg/kg	0.20	[B] 0.38	< 0.20	< 0.20	0.79	< 0.20
1,2-Dichloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Trichloroethene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,2-Dichloropropane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Dibromomethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Bromodichloromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
cis-1,3-Dichloropropene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Toluene	N	2760	µg/kg	0.20	[B] < 0.20	1.7	< 0.20	0.75	0.63
Trans-1,3-Dichloropropene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,1,2-Trichloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Tetrachloroethene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,3-Dichloropropane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Dibromochloromethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,2-Dibromoethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Chlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,1,1,2-Tetrachloroethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Ethylbenzene	N	2760	µg/kg	0.20	[B] < 0.20	< 0.20	< 0.20	0.69	0.25
m & p-Xylene	N	2760	µg/kg	0.20	[B] < 0.20	< 0.20	< 0.20	0.87	< 0.20
o-Xylene	N	2760	µg/kg	0.20	[B] < 0.20	< 0.20	< 0.20	0.54	0.48
Styrene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Tribromomethane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Isopropylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Bromobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,2,3-Trichloropropane	N	2760	µg/kg	0.20		< 0.20		< 0.20	
2-Chlorotoluene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,3,5-Trimethylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
4-Chlorotoluene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Tert-Butylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,2,4-Trimethylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
Sec-Butylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	
1,3-Dichlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20	

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.:				22-38098	22-38098	22-38098	22-38098	22-38098	22-38098	22-38098
Quotation No.: Q19-18671	Chemtest Sample ID.:				1519538	1519539	1519540	1519541	1519542	1519543	1519544
	Client Sample ID.:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Location:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.25	0.90	0.25	0.90	0.25	0.25	0.25
	Date Sampled:				04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022
	Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
4-Isopropyltoluene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
1,4-Dichlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
N-Butylbenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
1,2-Dichlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
1,2-Dibromo-3-Chloropropane	N	2760	µg/kg	0.20		< 0.20		< 0.20			
1,2,4-Trichlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
Hexachlorobutadiene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
1,2,3-Trichlorobenzene	N	2760	µg/kg	0.20		< 0.20		< 0.20			
Methyl Tert-Butyl Ether	N	2760	µg/kg	0.20	[B] < 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
N-Nitrosodimethylamine	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Phenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Chlorophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050		< 0.050		< 0.050			
1,3-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
1,4-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
1,2-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Methylphenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Hexachloroethane	N	2790	mg/kg	0.050		< 0.050		< 0.050			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050		< 0.050		< 0.050			
4-Methylphenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Nitrobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Isophorone	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Nitrophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,4-Dimethylphenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,4-Dichlorophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Naphthalene	N	2790	mg/kg	0.050		0.21		1.6			
4-Chloroaniline	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Hexachlorobutadiene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Methylnaphthalene	N	2790	mg/kg	0.050		0.19		0.52			
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Chloronaphthalene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Nitroaniline	N	2790	mg/kg	0.050		< 0.050		< 0.050			

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.:				22-38098	22-38098	22-38098	22-38098	22-38098	22-38098	22-38098
Quotation No.: Q19-18671	Chemtest Sample ID.:				1519538	1519539	1519540	1519541	1519542	1519543	1519544
	Client Sample ID.:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Location:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.25	0.90	0.25	0.90	0.25	0.25	0.25
	Date Sampled:				04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022
	Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
Acenaphthylene	N	2790	mg/kg	0.050		0.089		0.081			
Dimethylphthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,6-Dinitrotoluene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Acenaphthene	N	2790	mg/kg	0.050		0.61		0.81			
Dibenzofuran	N	2790	mg/kg	0.050		0.24		0.70			
4-Chlorophenylphenylether	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2,4-Dinitrotoluene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Fluorene	N	2790	mg/kg	0.050		0.34		0.39			
Diethyl Phthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
4-Nitroaniline	N	2790	mg/kg	0.050		< 0.050		< 0.050			
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Azobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Hexachlorobenzene	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Pentachlorophenol	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Phenanthrene	N	2790	mg/kg	0.050		4.0		3.2			
Anthracene	N	2790	mg/kg	0.050		0.92		0.68			
Carbazole	N	2790	mg/kg	0.050		0.39		0.29			
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Fluoranthene	N	2790	mg/kg	0.050		7.0		4.5			
Pyrene	N	2790	mg/kg	0.050		5.7		3.7			
Butylbenzyl Phthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Benzo[a]anthracene	N	2790	mg/kg	0.050		3.1		1.7			
Chrysene	N	2790	mg/kg	0.050		3.2		1.8			
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050		< 0.050		< 0.050			
Benzo[b]fluoranthene	N	2790	mg/kg	0.050		4.0		2.4			
Benzo[k]fluoranthene	N	2790	mg/kg	0.050		1.4		0.77			
Benzo[a]pyrene	N	2790	mg/kg	0.050		3.3		1.9			
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050		1.6		0.91			
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050		0.47		0.27			
Benzo[g,h,i]perylene	N	2790	mg/kg	0.050		1.9		1.1			
Total PCBs (7 congeners)	N	2815	mg/kg	0.0010	< 0.0010				< 0.0010		
Resorcinol	M	2920	mg/kg	0.020		< 0.020		< 0.020			
Phenol	M	2920	mg/kg	0.020		< 0.020		< 0.020			
Cresols	M	2920	mg/kg	0.020		< 0.020		< 0.020			
Xylenols	M	2920	mg/kg	0.020		< 0.020		< 0.020			
1-Naphthol	N	2920	mg/kg	0.020		< 0.020		< 0.020			

Results - Soil

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Client: Worms Eye Ltd	Chemtest Job No.:				22-38098	22-38098	22-38098	22-38098	22-38098	22-38098	22-38098
Quotation No.: Q19-18671	Chemtest Sample ID.:				1519538	1519539	1519540	1519541	1519542	1519543	1519544
	Client Sample ID.:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Location:				TH/BH1	TH/BH1	TH/BH2	TH/BH2	TH/BH3	TH/BH4	TH5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.25	0.90	0.25	0.90	0.25	0.25	0.25
	Date Sampled:				04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022	04-Oct-2022
	Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
Trimethylphenols	M	2920	mg/kg	0.020		< 0.020		< 0.020			
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
SVOC TIC	N	2790	mg/kg	N/A		None Detected		None Detected			
VOC TIC	N	2760	µg/kg	N/A		None Detected		None Detected			

Results - Single Stage WAC

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Chemtest Job No: 22-38098					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1519538					Limits		
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: TH/BH1							
Sample Location: TH/BH1							
Top Depth(m): 0.25							
Bottom Depth(m):							
Sampling Date: 04-Oct-2022							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	5.8	3	5	6
Loss On Ignition	2610	M	%	11	--	--	10
Total BTEX	2760	M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	74	100	--	--
pH	2010	M		7.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.016	--	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	0.0050	0.050	0.5	2	25
Barium	1455	U	0.041	0.41	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455	U	0.0050	0.050	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0075	0.075	0.5	10	30
Nickel	1455	U	0.0019	0.019	0.4	10	40
Lead	1455	U	0.0016	0.016	0.5	10	50
Antimony	1455	U	0.0016	0.016	0.06	0.7	5
Selenium	1455	U	0.0009	0.0086	0.1	0.5	7
Zinc	1455	U	0.007	0.069	4	50	200
Chloride	1220	U	3.1	31	800	15000	25000
Fluoride	1220	U	0.51	5.1	10	150	500
Sulphate	1220	U	7.5	75	1000	20000	50000
Total Dissolved Solids	1020	N	120	1100	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	8.2	82	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18

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.

Results - Single Stage WAC

Project: OL12 7NB Baildon Road, Rochdale, OL12 7NB

Chemtest Job No: 22-38098					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1519543					Limits		
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: TH/BH4							
Sample Location: TH/BH4							
Top Depth(m): 0.25							
Bottom Depth(m):							
Sampling Date: 04-Oct-2022							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	18	3	5	6
Loss On Ignition	2610	M	%	3.9	--	--	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	190	100	--	--
pH	2010	M		8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	< 0.0020	--	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	0.0044	0.044	0.5	2	25
Barium	1455	U	0.057	0.57	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	0.0015	0.015	0.5	10	70
Copper	1455	U	0.0026	0.026	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0064	0.064	0.5	10	30
Nickel	1455	U	0.0007	0.0068	0.4	10	40
Lead	1455	U	0.0011	0.011	0.5	10	50
Antimony	1455	U	0.0020	0.020	0.06	0.7	5
Selenium	1455	U	0.0012	0.012	0.1	0.5	7
Zinc	1455	U	0.003	0.028	4	50	200
Chloride	1220	U	1.2	12	800	15000	25000
Fluoride	1220	U	0.56	5.6	10	150	500
Sulphate	1220	U	17	170	1000	20000	50000
Total Dissolved Solids	1020	N	96	960	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	5.1	51	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	15

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.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1519538		TH/BH1	TH/BH1	04-Oct-2022	B	Amber Glass 250ml
1519538		TH/BH1	TH/BH1	04-Oct-2022	B	Amber Glass 60ml
1519538		TH/BH1	TH/BH1	04-Oct-2022	B	Plastic Tub 500g

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
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.
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
2150	Redox Potential	Redox Potential	Meter
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.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
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-diphenylcarbazine.
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

Test Methods

SOP	Title	Parameters included	Method summary
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
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; Dibenz[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.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane 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

BAILDON ROAD, ROCHDALE, OL12 7NB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 6% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
HEAVY METALS						
- Arsenic	49	37*	X			TH5 – 0.25m
- Cadmium	0.32	11*	✓			
- Chromium III	20	910*	✓			
- Chromium VI	<0.50	6*	✓			
- Copper	190	2400*	✓			
- Lead	340	200▲	X			TH/BH3 – 0.25m, TH/BH4 – 0.25m, TH5 – 0.25m
- Inorganic Mercury	0.10	40*	✓			
- Methyl Mercury	0.10	11*	✓			
- Nickel	50	180*	✓			
- Selenium	1.4	250*	✓			
- Zinc	130	3700*	✓			
OTHER INORGANICS						
- Asbestos	Chrysotile and Crocidolite		X			TH1 – 0.25m
- Cyanide (total)	0.60	20 (D)	✓			
- pH range	6.4 – 8.0		-			
- Sulphate (g/l)	0.053	0.5 (B)	✓			
- Sulphide	11	250 (E)	✓			
- Thiocyanate	<5.0		✓			
-TOC range (%)	4.9 – 18		-			
-SOM Range	8.5 - 31		-			

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

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

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)

BAILDON ROAD, ROCHDALE, OL12 7NB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 6% SOM

Contaminant	Max Value	Threshold	Pass/Fail	Inhalation Only	Pass/Fail	Failed Samples
PAHs						
- Acenaphthene	5.5	1100*	✓			
- Acenaphthylene	1.4	920*	✓			
- Anthracene	8.3	11000*	✓			
- Benz(a)anthracene	24	13*	X	367	✓	TH/BH2 – 0.25m, TH/BH4 – 0.25m
- Benzo(a)pyrene (BAP)*	26	3.0*	X	>1000	✓	TH/BH1 – 0.25m, TH/BH2 – 0.25m, TH/BH3 – 0.25m, TH/BH4 – 0.25m, TH5 – 0.25m, TH/BH1 – 0.90m
- Benzo(b)fluoranthene	34	3.7*	X	>1000	✓	TH/BH1 – 0.25m, TH/BH2 – 0.25m, TH/BH3 – 0.25m, TH/BH4 – 0.25m, TH5 – 0.25m, TH/BH1 – 0.90m
- Benzo(ghi)perylene	16	350*	✓			
- Benzo(k)fluoranthene	13	100*	✓			
- Chrysene	35	27*	X	>1000	✓	TH/BH2 – 0.25m
- Dibenzo(ah)anthracene (DBA)	5.1	0.3*	X	75	✓	TH/BH1 – 0.25m, TH/BH2 – 0.25m, TH/BH3 – 0.25m, TH/BH4 – 0.25m, TH5 – 0.25m, TH/BH1 – 0.90m
- Fluoranthene	55	890*	✓			
- Fluorene	5.3	860*	✓			
- Indene (123-cd) pyrene	16	41*	✓			
- Naphthalene	2.9	13*	✓			
- Phenanthrene	36	440*	✓			
- Pyrene	53	2000*	✓			
OTHER COMPOUNDS						
Phenols	<0.10	1100*	✓			
PCBs	<0.001	4 (D)	✓			

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

Hydrocarbon values derived using 6% SOM

BAP is a marker for genotoxic PAHs

Sources

- Soil Guideline Values ▲ - C4SL

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

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

BAILDON ROAD, ROCHDALE, OL12 7NB

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 6% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
BTEX COMPOUNDS						
- Benzene	0.00079	0.37*	✓			
- Toluene	0.0017	660*	✓			
- Ethyl-benzene	0.00069	260*	✓			
- Xylene - O	0.00068	330*	✓			
- M/P	0.00087	310*	✓			
TPHs						
Aliphatics						
C ₅ – C ₆	<0.010	160*	✓			
C ₆ – C ₈	<0.010	530*	✓			
C ₈ – C ₁₀	<0.10	150*	✓			
C ₁₀ – C ₁₂	<0.10	760 (283 vap)*	✓			
C ₁₂ – C ₁₆	14	4300 (142 sol)*	✓			
C ₁₆ – C ₃₅	<0.20	11000*	✓			
Aromatics						
C ₅ – C ₇	<0.010	300*	✓			
C ₇ – C ₈	<0.010	660*	✓			
C ₈ – C ₁₀	<0.10	190*	✓			
C ₁₀ – C ₁₂	<0.10	380*	✓			
C ₁₂ – C ₁₆	<0.10	660*	✓			
C ₁₆ – C ₂₁	42	930*	✓			
C ₂₁ – C ₃₅	1500	1700*	✓			
C ₃₅ – C ₄₄	<0.10	1700*	✓			

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

Hydrocarbon values derived using 6% SOM

Vap – vapour saturation limit Soil – solubility saturation limit

Sources

- Soil Guideline Values ▲ - C4SL

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

(H) – Hazardous Waste

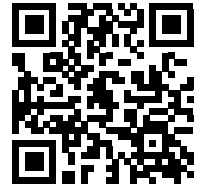
® - CLEA 1.06 Software

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)



V32FR-Q1MPC-EQRQ6

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

Job name

Baildon Road, Rochdale, OL12 7NB

Description/Comments

Project

Baildon Road, Rochdale, OL12 7NB

Site

Baildon Road, Rochdale, OL12 7NB

Classified by

Name: **David Lord**
 Date: **25 Oct 2022 15:50 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	TH/BH1 - 0.25m	0.25	Non Hazardous		2
2	TH/BH2 - 0.25m	0.25	Non Hazardous		5
3	TH/BH3 - 0.25m	0.25	Non Hazardous		8
4	TH/BH4 - 0.25m	0.25	Non Hazardous		11
5	TH5 - 0.25m	0.25	Hazardous	HP 3(i), HP 7, HP 11	14

Related documents

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

Report

Created by: David Lord

Created date: 25 Oct 2022 15:50 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	17
Appendix B: Rationale for selection of metal species	18
Appendix C: Version	19

Classification of sample: TH/BH1 - 0.25m

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

Sample details

Sample name:	LoW Code:
TH/BH1 - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **18% 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 }				9.8 mg/kg	1.32	12.939 mg/kg	0.00129 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.23 mg/kg	1.285	0.296 mg/kg	0.000023 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.9 mg/kg	1.462	11.546 mg/kg	0.00115 %			
		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 }				28 mg/kg	1.126	31.525 mg/kg	0.00315 %			
	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	70 mg/kg	1.56	109.187 mg/kg	0.007 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.08 mg/kg	1.353	0.108 mg/kg	0.0000108 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel dihydroxide }				9.7 mg/kg	1.579	15.321 mg/kg	0.00153 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10	pH				7.3 pH		7.3 pH	7.3 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 }				0.33 mg/kg	1.405	0.464 mg/kg	0.0000464 %			
	034-002-00-8										
13	zinc { zinc oxide }				98 mg/kg	1.245	121.982 mg/kg	0.0122 %			
	030-013-00-7	215-222-5	1314-13-2								
14	benzene				0.0003 mg/kg		0.0003 mg/kg	0.000000038 %			
	601-020-00-8	200-753-7	71-43-2								

WORMS EYE

LIMITED

#	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									
	601-021-00-3	203-625-9	108-88-3		<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %		<LOD
16	ethylbenzene									
	601-023-00-4	202-849-4	100-41-4		<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %		<LOD
17	xylene									
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.0004 mg/kg		<0.0004 mg/kg	<0.00000004 %		<LOD
18	TPH (C6 to C40) petroleum group									
			TPH		340 mg/kg		340 mg/kg	0.034 %		
19	acenaphthene									
		201-469-6	83-32-9		1.3 mg/kg		1.3 mg/kg	0.00013 %		
20	acenaphthylene									
		205-917-1	208-96-8		0.64 mg/kg		0.64 mg/kg	0.000064 %		
21	anthracene									
		204-371-1	120-12-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
22	benzo[a]anthracene									
	601-033-00-9	200-280-6	56-55-3		5.4 mg/kg		5.4 mg/kg	0.00054 %		
23	benzo[a]pyrene; benzo[def]chrysene									
	601-032-00-3	200-028-5	50-32-8		5.4 mg/kg		5.4 mg/kg	0.00054 %		
24	benzo[b]fluoranthene									
	601-034-00-4	205-911-9	205-99-2		6.4 mg/kg		6.4 mg/kg	0.00064 %		
25	benzo[k]fluoranthene									
	601-036-00-5	205-916-6	207-08-9		1.9 mg/kg		1.9 mg/kg	0.00019 %		
26	benzo[ghi]perylene									
		205-883-8	191-24-2		3.7 mg/kg		3.7 mg/kg	0.00037 %		
27	chrysene									
	601-048-00-0	205-923-4	218-01-9		8.5 mg/kg		8.5 mg/kg	0.00085 %		
28	dibenz[a,h]anthracene									
	601-041-00-2	200-181-8	53-70-3		1.1 mg/kg		1.1 mg/kg	0.00011 %		
29	fluoranthene									
		205-912-4	206-44-0		12 mg/kg		12 mg/kg	0.0012 %		
30	fluorene									
		201-695-5	86-73-7		1.7 mg/kg		1.7 mg/kg	0.00017 %		
31	indeno[123-cd]pyrene									
		205-893-2	193-39-5		3.3 mg/kg		3.3 mg/kg	0.00033 %		
32	naphthalene									
	601-052-00-2	202-049-5	91-20-3		0.83 mg/kg		0.83 mg/kg	0.000083 %		
33	phenanthrene									
		201-581-5	85-01-8		7.6 mg/kg		7.6 mg/kg	0.00076 %		
34	pyrene									
		204-927-3	129-00-0		12 mg/kg		12 mg/kg	0.0012 %		
35	asbestos									
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.0002 mg/kg		0.0002 mg/kg	0.000000022 %		
Total:								0.068 %		

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 Low level, below threshold.

Hazard Statements hit:

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

Because of determinand:

benzene: (conc.: 3.8e-08%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.034%)

Classification of sample: TH/BH2 - 0.25m

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

Sample details

Sample name:	LoW Code:
TH/BH2 - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(no correction)	

Hazard properties

None identified

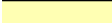
Determinands

Moisture content: 20% 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 }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
	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) }				6.4 mg/kg	1.462	9.354 mg/kg	0.000935 %		
		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 }				29 mg/kg	1.126	32.651 mg/kg	0.00327 %		
	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 }				0.6 mg/kg	1.884	1.13 mg/kg	0.000113 %		
	006-007-00-5									
7	lead { lead chromate }			1	62 mg/kg	1.56	96.709 mg/kg	0.0062 %		
	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 }				11 mg/kg	1.579	17.374 mg/kg	0.00174 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
10	pH				7.2 pH		7.2 pH	7.2 pH		
			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 }				<0.25 mg/kg	1.405	<0.351 mg/kg	<0.0000351 %		<LOD
	034-002-00-8									
13	zinc { zinc oxide }				110 mg/kg	1.245	136.919 mg/kg	0.0137 %		
	030-013-00-7	215-222-5	1314-13-2							
14	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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				<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.0004 mg/kg		<0.0004 mg/kg	<0.00000004 %		<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				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			TPH							
19	confirm TPH has NOT arisen from diesel or petrol				☒					
20	acenaphthene				5.5 mg/kg		5.5 mg/kg	0.00055 %		
		201-469-6	83-32-9							
21	acenaphthylene				1.1 mg/kg		1.1 mg/kg	0.00011 %		
		205-917-1	208-96-8							
22	anthracene				8.3 mg/kg		8.3 mg/kg	0.00083 %		
		204-371-1	120-12-7							
23	benzo[a]anthracene				24 mg/kg		24 mg/kg	0.0024 %		
	601-033-00-9	200-280-6	56-55-3							
24	benzo[a]pyrene; benzo[def]chrysene				26 mg/kg		26 mg/kg	0.0026 %		
	601-032-00-3	200-028-5	50-32-8							
25	benzo[b]fluoranthene				34 mg/kg		34 mg/kg	0.0034 %		
	601-034-00-4	205-911-9	205-99-2							
26	benzo[k]fluoranthene				13 mg/kg		13 mg/kg	0.0013 %		
	601-036-00-5	205-916-6	207-08-9							
27	benzo[ghi]perylene				16 mg/kg		16 mg/kg	0.0016 %		
		205-883-8	191-24-2							
28	chrysene				35 mg/kg		35 mg/kg	0.0035 %		
	601-048-00-0	205-923-4	218-01-9							
29	dibenz[a,h]anthracene				5.1 mg/kg		5.1 mg/kg	0.00051 %		
	601-041-00-2	200-181-8	53-70-3							
30	fluoranthene				55 mg/kg		55 mg/kg	0.0055 %		
		205-912-4	206-44-0							
31	fluorene				5.3 mg/kg		5.3 mg/kg	0.00053 %		
		201-695-5	86-73-7							
32	indeno[123-cd]pyrene				16 mg/kg		16 mg/kg	0.0016 %		
		205-893-2	193-39-5							
33	naphthalene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
	601-052-00-2	202-049-5	91-20-3							
34	phenanthrene				36 mg/kg		36 mg/kg	0.0036 %		
		201-581-5	85-01-8							
35	pyrene				53 mg/kg		53 mg/kg	0.0053 %		
		204-927-3	129-00-0							
36	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.0607 %		

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: TH/BH3 - 0.25m

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

Sample details

Sample name:	LoW Code:
TH/BH3 - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **15% 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 }				9.9	mg/kg	1.32	13.071	mg/kg	0.00131 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.28	mg/kg	1.285	0.36	mg/kg	0.000028 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.4	mg/kg	1.462	13.739	mg/kg	0.00137 %		
		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 }				66	mg/kg	1.126	74.309	mg/kg	0.00743 %		
	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	220	mg/kg	1.56	343.159	mg/kg	0.022 %		
	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 }				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				7.7	pH		7.7	pH	7.7 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 }				<0.25	mg/kg	1.405	<0.351	mg/kg	<0.0000351 %		<LOD
	034-002-00-8											
13	zinc { zinc oxide }				90	mg/kg	1.245	112.024	mg/kg	0.0112 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.0002	mg/kg		<0.0002	mg/kg	<0.00000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

WORMS EYE

LIMITED

#	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				0.0006 mg/kg		0.0006 mg/kg	0.000000063 %		
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				0.0002 mg/kg		0.0002 mg/kg	0.000000025 %		
	601-023-00-4	202-849-4	100-41-4							
17	xylene				0.0006 mg/kg		0.0006 mg/kg	0.000000068 %		
	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				550 mg/kg		550 mg/kg	0.055 %		
			TPH							
19	acenaphthene				2 mg/kg		2 mg/kg	0.0002 %		
		201-469-6	83-32-9							
20	acenaphthylene				0.39 mg/kg		0.39 mg/kg	0.000039 %		
		205-917-1	208-96-8							
21	anthracene				3.3 mg/kg		3.3 mg/kg	0.00033 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				9.8 mg/kg		9.8 mg/kg	0.00098 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				9.8 mg/kg		9.8 mg/kg	0.00098 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				12 mg/kg		12 mg/kg	0.0012 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				6.9 mg/kg		6.9 mg/kg	0.00069 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				9.3 mg/kg		9.3 mg/kg	0.00093 %		
		205-883-8	191-24-2							
27	chrysene				14 mg/kg		14 mg/kg	0.0014 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				1.8 mg/kg		1.8 mg/kg	0.00018 %		
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				21 mg/kg		21 mg/kg	0.0021 %		
		205-912-4	206-44-0							
30	fluorene				2.2 mg/kg		2.2 mg/kg	0.00022 %		
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				6.1 mg/kg		6.1 mg/kg	0.00061 %		
		205-893-2	193-39-5							
32	naphthalene				2.2 mg/kg		2.2 mg/kg	0.00022 %		
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				14 mg/kg		14 mg/kg	0.0014 %		
		201-581-5	85-01-8							
34	pyrene				21 mg/kg		21 mg/kg	0.0021 %		
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.115 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 6.3e-08%)

ethylbenzene: (conc.: 2.5e-08%)

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

Because of determinands:

xylene: (conc.: 6.8e-08%)

TPH (C6 to C40) petroleum group: (conc.: 0.055%)

Classification of sample: TH/BH4 - 0.25m

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

Sample details

Sample name:	LoW Code:
TH/BH4 - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15% 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	0.3 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) }				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 }				90 mg/kg	1.126	101.33 mg/kg	0.0101 %		
	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	260 mg/kg	1.56	405.552 mg/kg	0.026 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.135 mg/kg	0.0000135 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel dihydroxide }				25 mg/kg	1.579	39.487 mg/kg	0.00395 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
10	pH		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 }				0.68 mg/kg	1.405	0.955 mg/kg	0.0000955 %		
	034-002-00-8									
13	zinc { zinc oxide }				120 mg/kg	1.245	149.366 mg/kg	0.0149 %		
	030-013-00-7	215-222-5	1314-13-2							
14	benzene				<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %		<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				0.0009 mg/kg		0.0009 mg/kg	0.000000097 %		
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				0.0002 mg/kg		0.0002 mg/kg	0.000000022 %		
	601-023-00-4	202-849-4	100-41-4							
17	xylene				0.0006 mg/kg		0.0006 mg/kg	0.000000069 %		
	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				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			TPH							
19	confirm TPH has NOT arisen from diesel or petrol				☒					
20	acenaphthene				2.4 mg/kg		2.4 mg/kg	0.00024 %		
		201-469-6	83-32-9							
21	acenaphthylene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
		205-917-1	208-96-8							
22	anthracene				4.7 mg/kg		4.7 mg/kg	0.00047 %		
		204-371-1	120-12-7							
23	benzo[a]anthracene				15 mg/kg		15 mg/kg	0.0015 %		
	601-033-00-9	200-280-6	56-55-3							
24	benzo[a]pyrene; benzo[def]chrysene				16 mg/kg		16 mg/kg	0.0016 %		
	601-032-00-3	200-028-5	50-32-8							
25	benzo[b]fluoranthene				19 mg/kg		19 mg/kg	0.0019 %		
	601-034-00-4	205-911-9	205-99-2							
26	benzo[k]fluoranthene				7.5 mg/kg		7.5 mg/kg	0.00075 %		
	601-036-00-5	205-916-6	207-08-9							
27	benzo[ghi]perylene				8.7 mg/kg		8.7 mg/kg	0.00087 %		
		205-883-8	191-24-2							
28	chrysene				13 mg/kg		13 mg/kg	0.0013 %		
	601-048-00-0	205-923-4	218-01-9							
29	dibenz[a,h]anthracene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
	601-041-00-2	200-181-8	53-70-3							
30	fluoranthene				32 mg/kg		32 mg/kg	0.0032 %		
		205-912-4	206-44-0							
31	fluorene				2.5 mg/kg		2.5 mg/kg	0.00025 %		
		201-695-5	86-73-7							
32	indeno[123-cd]pyrene				9.5 mg/kg		9.5 mg/kg	0.00095 %		
		205-893-2	193-39-5							
33	naphthalene				2.4 mg/kg		2.4 mg/kg	0.00024 %		
	601-052-00-2	202-049-5	91-20-3							
34	phenanthrene				18 mg/kg		18 mg/kg	0.0018 %		
		201-581-5	85-01-8							
35	pyrene				32 mg/kg		32 mg/kg	0.0032 %		
		204-927-3	129-00-0							
36	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.0784 %		

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 Low levels, no liquid present

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 9.7e-08%)

ethylbenzene: (conc.: 2.2e-08%)

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

Because of determinand:

xylene: (conc.: 6.9e-08%)

Classification of sample: TH5 - 0.25m

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TH5 - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
20%	
(no correction)	

Hazard properties

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 hazardous because High level, above threshold.

Hazard Statements hit:

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

Because of determinand:

toluene: (conc.: 1.4e-07%)

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

Because of determinands:

xylene: (conc.: 1.28e-07%)

TPH (C6 to C40) petroleum group: (conc.: 0.15%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.15%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.15%)

Determinands

Moisture content: 20% 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 }				49 mg/kg	1.32	64.696	mg/kg	0.00647 %		
	033-003-00-0	215-481-4	1327-53-3								
2	 cadmium { cadmium sulfide }			1	0.32 mg/kg	1.285	0.411	mg/kg	0.000032 %		
	048-010-00-4	215-147-8	1306-23-6								

#	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								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %			
4	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	190 mg/kg	1.126	213.919 mg/kg	0.0214 %			
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 }	006-007-00-5			<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	340 mg/kg	1.56	530.337 mg/kg	0.034 %			
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	0.07 mg/kg	1.353	0.0947 mg/kg	0.00000947 %			
9	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	50 mg/kg	1.579	78.975 mg/kg	0.0079 %			
10	pH		PH		8 pH		8 pH	8pH			
11	phenol	604-001-00-2	203-632-7	108-95-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			1.4 mg/kg	1.405	1.967 mg/kg	0.000197 %			
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2	130 mg/kg	1.245	161.813 mg/kg	0.0162 %			
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %			<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	0.0014 mg/kg		0.0014 mg/kg	0.00000014 %			
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.0002 mg/kg		<0.0002 mg/kg	<0.00000002 %			<LOD
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	0.0012 mg/kg		0.0012 mg/kg	0.000000128 %			
18	TPH (C6 to C40) petroleum group		TPH		1500 mg/kg		1500 mg/kg	0.15 %			
19	acenaphthene	201-469-6	83-32-9		1.2 mg/kg		1.2 mg/kg	0.00012 %			
20	acenaphthylene	205-917-1	208-96-8		0.46 mg/kg		0.46 mg/kg	0.000046 %			
21	anthracene	204-371-1	120-12-7		2.4 mg/kg		2.4 mg/kg	0.00024 %			
22	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	8 mg/kg		8 mg/kg	0.0008 %			
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	10 mg/kg		10 mg/kg	0.001 %			
24	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	12 mg/kg		12 mg/kg	0.0012 %			
25	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	5.2 mg/kg		5.2 mg/kg	0.00052 %			
26	benzo[ghi]perylene	205-883-8	191-24-2		6.9 mg/kg		6.9 mg/kg	0.00069 %			
27	chrysene	601-048-00-0	205-923-4	218-01-9	9.4 mg/kg		9.4 mg/kg	0.00094 %			

#	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							
28	dibenz[a,h]anthracene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				17 mg/kg		17 mg/kg	0.0017 %		
		205-912-4	206-44-0							
30	fluorene				1.1 mg/kg		1.1 mg/kg	0.00011 %		
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				6.5 mg/kg		6.5 mg/kg	0.00065 %		
		205-893-2	193-39-5							
32	naphthalene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				9.3 mg/kg		9.3 mg/kg	0.00093 %		
		201-581-5	85-01-8							
34	pyrene				17 mg/kg		17 mg/kg	0.0017 %		
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	- - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.25 %		

Key

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

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

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **confirm TPH has NOT arisen from diesel or petrol**

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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 sulposelenide 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: 2022.263.5340.9974 (20 Sep 2022)

HazWasteOnline Database: 2022.273.5362.10003 (03 Oct 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

CLEA Software Version 1.071

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Report generated 27-Oct-22

Report title Baildon Road Rochdale

Created by David Lord at Worms Eye Ltd



RESULTS

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[illegible]

[illegible]

[illegible]

[illegible]



	Average Daily Exposure ($\text{mg kg}^{-1} \text{ bw day}^{-1}$)	Distribution by Pathway (%)
	Direct soil ingestion Consumption of homegrown produce and attached soil Dermal contact with soil and dust Inhalation of dust Inhalation of vapour Background (oral) Background (inhalation)	Direct soil ingestion Consumption of homegrown produce Dermal contact with soil and dust Inhalation of dust Inhalation of vapour (indoor) Inhalation of vapour (outdoor) Background (oral) Background (inhalation)
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