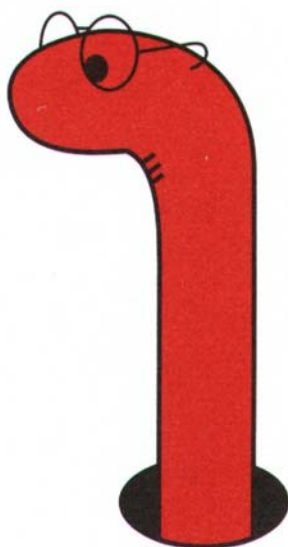


Electronic Report



WORMS EYE

**52 Bank Parade
Burnley
BB11 1TS
Phone
01282 414649 / 458410**

Our Ref: Ansleigh Avenue / M8 5SU / 2020

Date: 8 July 2021

Mr O Senechko
158 Middleton Road
Manchester
M8 4LB

Copy to: Zoran Baros
fuzedarchitects@gmail.com

Email: senechko@btinternet.com

9 ANSLEIGH AVENUE, CRUMPSALL, M8 5SU

INTRUSIVE REPORT

INTRODUCTION

A residential development is proposed. Following a Preliminary Risk Assessment (PRA 1/8/20) instructions were to carry out trial holes and tests investigate potential contamination issues.

SITE LOCATION

The site is an 'L' shaped garden (50 x 20m) located to the northeast of Ansleigh Avenue in Crumpsall and at OS Grid Reference 384150, 402480. The site is to the west of the existing house and in 2020 was an overgrown plot with a brick garage and fly tipping at the southwest, pile of bricks and stone slabs on the west and a pile of stone slabs on the east. Several plastic drums, and a rusty metal drum were present throughout site and vehicles were parked on site.

By June 2021 the site had been cleared. Hardcore had been laid on the south of the site, in the area of the proposed house and drive. The remainder of the site was topsoil surfaced.

The area slopes down to the northeast where a timber yard, about 2.5 metres below the site, has buildings lining the northeast boundary, houses to the west are about 5 metres below the site level.

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PROPOSED DEVELOPMENT

It is proposed to build a detached house with a garden at the north and driveway at the south. The existing garage will remain.

PRELIMINARY RISK ASSESSMENT

Worms Eye carried out a PRA dated 1/8/20, the salient points were:

Contamination

The site was a garden and garage to an existing house, with vehicles parked on site. A previous house at the east, built circa 1940s/50s was recently demolished which may have introduced contaminants to the ground, especially asbestos, sulphate, lead and PAHs. High levels are not expected but may exceed stringent residential thresholds. Parked vehicles are a potential source of TPHs and PAHs above residential thresholds, from leaks, but high levels are not expected.

The timber yard/builders yard, to the northeast is about 2.5 metres below the site and contaminants would not migrate up to the site. However, it is not known if the building adjoining the site previously had asbestos containing materials, eg. Water pipes/gutters etc. The historical maps also suggest the north of the site was likely at the same level as, possibly even part of, the original builders yard, therefore contaminants migrating to the site cannot be ruled out at this stage.

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

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

A low to moderate risk to householders is anticipated and an intrusive investigation is required, to confirm the presence/absence and extent of contamination on the site. The former builders yard to the northeast, former house at the east and vehicles are specific point sources for contamination and the investigation will need to target these, proposed garden (most sensitive part of the development), proposed house and provide all round coverage.

Controlled Waters

There is an underlying principal aquifer beneath sand. There are no nearby water abstraction point or source protection zones and the River Irk is 460m northeast.

The gardens will allow rainwater to pass through the surface soils, and migrate towards the aquifer/brook and the underlying sand will not impede the flow of water. However, contamination is

Re-Cap Continued

not expected at high levels, and it is anticipated there will be only a low risk to controlled water and no further action is considered necessary at this stage.

Landfill Gas/Ground Gas

Although there are no landfill sites within 250 metres there are several filled features, including a former sand pit and railway cutting within 30m of the site. These are potential sources of ground gases which could migrate to and present a risk to the development.

Bearing in mind the size of the filled areas, and underlying sand which is unlikely to significantly impede the passage of gases, it is considered that there is likely to be a low risk to the development.

Bearing in mind the proposals is for a single house it is considered that the anticipated gas risk can be adequately dealt with by installing precautionary gas protection measures, in-lieu of testing. The following are considered to be appropriate measures for the anticipated level of risk.

- Ventilation of confined spaces within building
- A well-constructed ground slab/suspended floor with sub-floor venting.
- A low-permeability gas membrane (see membranes below).
- Minimum penetration of ground slab by services.
- Also gas precautions should continue across the cavity.

The following membrane (or equivalent) is suggested:

- Visqueen Gas Barrier (blue with foil layer)

Each membrane should be used with the appropriate matching cavity tray (or cavity membrane), DPC and service duct 'top hat'. Joints to be lapped and sealed.

Radon

Radon protection measures are not required.

PRA Re-Cap Continued

Industry Profile

The site has had no industrial use. Demolition rubble from a former house and the original builders yard are possible source of contaminants on the north of the site.

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

Pollutant Linkages

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

Source	Receptors	Pathway	Potential/Likely Pollutant Linkage
Asbestos	Construction workers	Inhalation	Possible
	End-users	Inhalation	Possible
	Off-site	Migration off-site	Unlikely
Inorganic contaminants	Construction workers	Short-term direct contact, inhalation of dust, ingestion	Possible
	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	Yes
Hydrocarbons	Construction workers	Short-term direct contact, inhalation of dust, ingestion	Possible
	Householders	Direct contact, ingestion, from home grown vegetables, ingestion and inhalation of dust	Yes
	Groundwater	Migrating towards	No
	River/stream	Migrating/leaching towards	No
Hydrocarbon vapours	Construction workers	Short-term inhalation	No
	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas	End-users - in buildings	Seeping into buildings, explosion, asphyxiation	Yes
Radon	End-users - in buildings	Seeping into buildings	No

End of PRA Re-Cap

GROUND INVESTIGATIONS

A series of five trial holes was excavated to about 0.8m to collect shallow samples for testing. Details are given on the location plan and trial hole logs enclosed with this report.

Trial holes 1, 2, 3 and 5 show similar conditions, having about 0.55m of made ground (topsoil, brick, gravel, concrete) overlying a former topsoil layer, down to their base at 0.8 metres to 0.98 metres deep.

TH4 encountered sand at ground level, with gravel to 0.3m and with rare gravel to 0.8m.

The following approximates to a section looking northeast.

Findings	TH1 (m)	TH5 (m)	TH2 (m)	TH4 (m)	TH3 (m)
Made ground	0.0 – 0.52	0.0 – 0.58	0.0 – 0.52	-	0.0 – 0.55
Former topsoil	0.52 – 0.95	0.58 – 0.8	0.52 – 0.80	-	0.55 – 0.95
Sand	-	-	-	0.0 – 0.8	-
Water	Dry	Dry	Dry	Dry	Dry

CONTAMINATION TESTING

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

The maximum contamination values have been compared with residential C4Ls and soil guideline values provided by CLEA. Where these are not available, values are based on the LQM/CIEH S4ULS. In accordance with guidance provided by the AGS, threshold values from other sources have been used for screening purposes. This information has been brought together on the Comparison Table included with this report.

Asbestos

No asbestos fibres were detected.

Inorganics (metals etc.)

Levels of inorganic contaminants were below residential thresholds except lead in TH2 at 0.25m which exceeds the threshold.

Sulphate

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

Hydrocarbons

Levels of phenols and TPHs are below their residential thresholds.

Regarding PAHs, TH1, 2, 3 and 5 at 0.25m have levels of benzo(a)pyrene, benzo(b)fluoranthene and dibenzo(ah)anthracene which exceed residential thresholds.

TH4 at 0.25m has dibenzo(ah)anthracene above the residential threshold.

DISPOSAL OF EXCAVATED SOIL

Test results have been compared with hazardous waste thresholds and a Hazwaste Report is enclosed. The results suggest excavated soil would not be classed as hazardous waste.

Disposal of soil is now a complex matter and the analysis should be submitted to the receiving site for confirmation of its status.

DISCUSSION

Contamination

Contamination tests show levels of lead (TH2) and PAHs (TH1, 2, 3, 4 and 5) to exceed residential thresholds. The findings show these to be spread around the whole of the garden area at the rear (north) of the site. The risks from these arises from householders having direct contact with surface soils and it is considered there is a risk to householders in garden and non-permanent hard-surface areas.

The contaminants seen at raised levels do not pose a vapour inhalation risk and CLEA calculations are enclosed to show this.

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

Levels of volatile hydrocarbons are below the thresholds, there is no risk from hydrocarbon vapours.

Excavated Soils

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

Controlled Waters

Regarding risks to controlled waters:

- The site is underlain by a Principal aquifer.
- The nearest water course is the River Irk, 460m northeast.
- Although raised, the levels of contaminants are not very high.
- Made ground will be taken away or covered, removing or considerably reducing the opportunity for leaching.
- There are no nearby abstraction points.
- There are no nearby source protection zones.

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

Landfill Gas/Ground Gas

Although there are no landfill sites within 250 metres there are several filled features, including a former sand pit and railway cutting within 30m of the site. These are potential sources of ground gases which could migrate to and present a risk to the development.

Bearing in mind the size of the filled areas, and underlying sand which is unlikely to significantly impede the passage of gases, it is considered that there is likely to be a low risk to the development. As the proposals is for a single house it is considered that the gas risk can be adequately dealt with by installing precautionary gas protection measures, in-lieu of testing.

CONCEPTUAL MODEL

Source	Receptors	Pathway	Complete Pollutant Linkage
Asbestos	End-users	Inhalation	No
	Off-site	Migration off-site	No
Inorganic contaminants (raised 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	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
	Groundwater	Migrating towards	No
	River/stream	Migrating/leaching towards	No
Hydrocarbon vapours	Householders	Inhalation of vapours indoors and outdoors	No
Landfill gas	End-users - in buildings	Seeping into buildings, explosion, asphyxiation	Possible
Radon	End-users - in buildings	Seeping into buildings	No

BREAKING PATHWAYS

Construction Workers

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

Watching Brief

A watching brief for unexpected contaminants should be maintained.

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

This may require further testing the remediation strategy may need to be reviewed.

Garden/Landscaped Areas

Contamination by PAHs was found to be present the made ground over a wide area, with lead also present in one area. There is a need to ensure there is a clean cover in garden and non-permanent hard-surfaced areas. This might comprise 600mm of imported soils or removing contaminated soils from the site.

One solution would be to remove the source by excavating the contaminated material and disposing off site. This would require:

- Excavated to 600mm beneath gardens, landscaped areas, patios, paths and other non-permanent hard-surfaced areas (see plan).
- Remove contaminated soils from site.
- Backfill with clean, imported, soils comprising (bottom up):
 - Geotextile membrane as a warning barrier.
 - 450mm sub-soil (gardens and landscaping) or 550mm (to paths/patios).
 - 150mm topsoil (gardens).
 - 50mm paving (non-permanent hard surfaced areas).

An alternative would be to excavate the contaminated soils down to the original topsoil and test the original topsoil for common contaminants (asbestos, metals, PAHs, TPHs), allowing two options:

- If levels are low, re-design the rear garden to allow for the change in level down to the original topsoil.
- If levels remain high continue excavation down to 600mm below finished level and, raise the level (as planned) using 600mm of clean, imported, soils:
 - Geotextile membrane as a warning barrier.
 - 450mm sub-soil (gardens and landscaping) or 550mm (to paths/patios).
 - 150mm topsoil (gardens).
 - 50mm paving (non-permanent hard surfaced areas).

Another option would be to create a 600mm thick cover layer, however, this would mean increasing the level across the whole site and is unlikely to be feasible, bearing in mind the site is already raised above the surrounding land.

Excavated Soils

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

The analysis should be submitted to the receiving site for confirmation of its status.

Landfill/Ground Gases

Off-site ground gas sources may pose a low risk to the site. Bearing in mind this is a single house it is considered that the anticipated risk can be dealt with by installing precautionary gas protection measures. The following are considered to be appropriate measures for the anticipated level of risk.

- Ventilation of confined spaces within building
- A well-constructed ground slab/suspended floor with sub-floor venting.

- A low-permeability gas membrane (see membranes below).
- Minimum penetration of ground slab by services.
- Also gas precautions should continue across the cavity.

The following membrane (or equivalent) is suggested:

- Visqueen Gas Barrier (blue with foil layer)

Each membrane should be used with the appropriate matching cavity tray (or cavity membrane), DPC and service duct 'top hat'. Joints to be lapped and sealed.

The gas membrane will need independent inspection which will require:

- Details of who carried out installation.
- Details of who carried out verification and inspection regime.
- Details of non-conformances and how they were rectified (if any).
- Completed gas measures inspection proforma or a signed statement confirming that the gas protection measures were installed as agreed, the membrane was free from tears and punctures, lapped and sealed as agreed at joints around services. This to be included in the Verification Report.

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.
- Document (receipt, delivery notes) to show soil types and sources.
- Trial pits, with photographs, to show depth and thickness of individual cover layers.
- Independent inspection of gas membrane and report.
- Documented site inspection, including photographs.

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

Contamination tests show levels of lead (TH2) and PAHs (TH1, 2, 3, 4 and 5) to exceed residential thresholds. The risks from these arises from householders having direct contact with surface soils and it is considered there is a risk to householders in garden and non-permanent hard-surface areas. Potential solutions are considered to be:

- Excavate to 600mm beneath gardens, landscaped areas, patios, paths and other non-permanent hard-surfaced areas (see plan). Then backfill with clean, imported, soils comprising (bottom up):
 - Geotextile membrane as a warning barrier.
 - 450mm sub-soil (gardens and landscaping) or 550mm (to paths/patios).
 - 150mm topsoil (gardens).
 - 50mm paving (non-permanent hard surfaced areas).

Excavate contaminated soils down to the original topsoil and test the original topsoil for common contaminants (asbestos, metals, PAHs, TPHs). If levels are low, re-design the rear garden to allow for the change in level down or, if levels remain high, continue excavation to 600mm below finished ground level and import 600mm of clean soils.

Sulphate resistant concrete is not required.

There are no risks from hydrocarbon vapours.

Excavated Soils

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

Disposal of soil is now a complex matter and the analysis should be submitted to the receiving site for confirmation of its status.

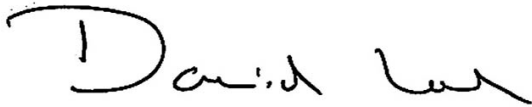
Controlled Waters

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

Gas Testing

Bearing in mind the proposals is for a single house it is considered that the anticipated gas risk can be adequately dealt with by installing precautionary gas protection measures, in-lieu of testing.

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

9 ANSLEIGH AVENUE, CRUMSPALL, M8 5SU

LIST OF APPENDICES – INTRUSIVE REPORT

Proposed Site Plan – showing Trial Hole locations

Trial Hole Logs

Contamination Test Results – Soil

Contamination Comparison – Soil

Hazwaste Report

CLEA Calculations

Plan Showing Area of Required Remedial Works

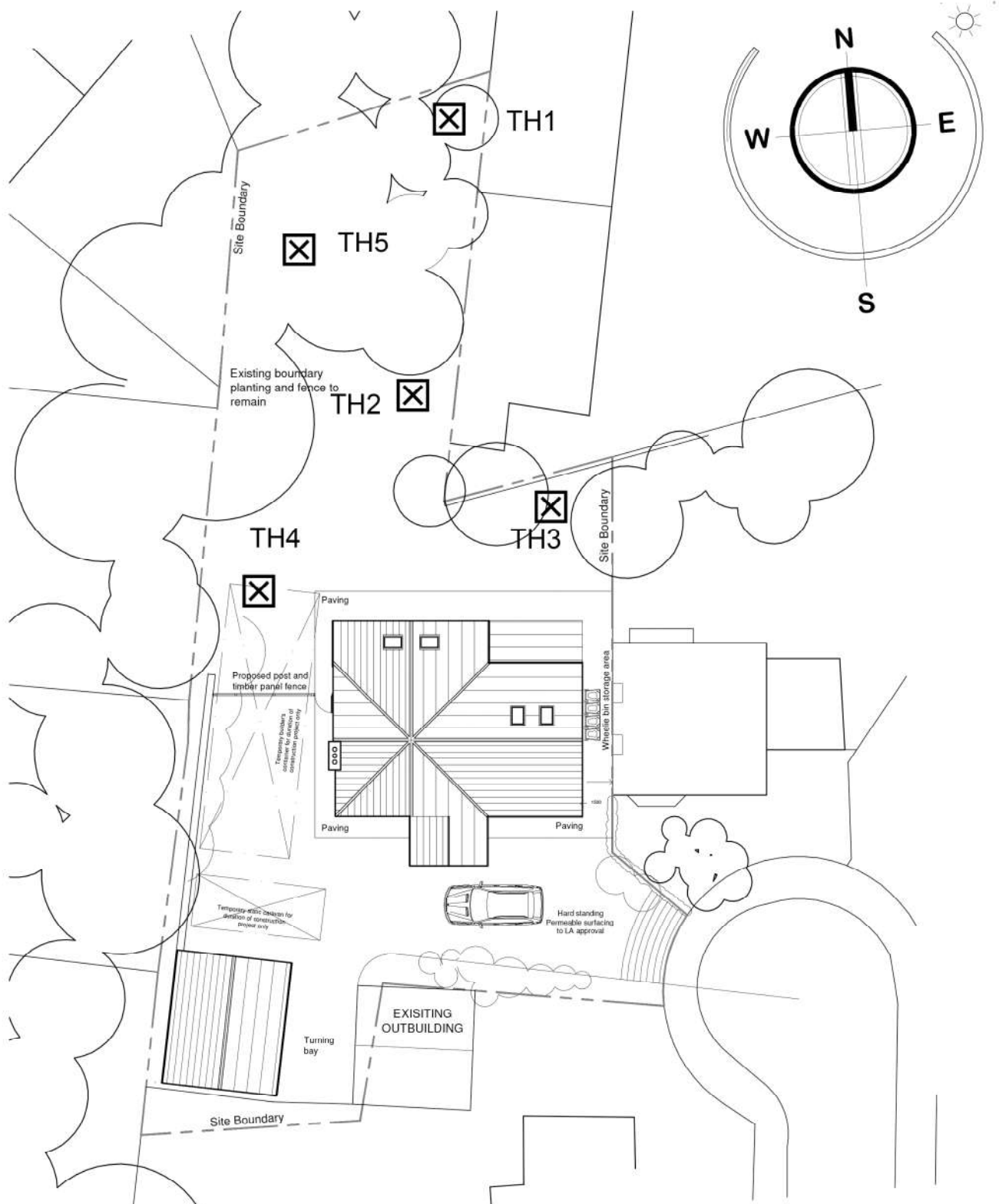
ABBREVIATIONS

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

1. This report should be considered in relation to the objectives agreed between Worms Eye and the Client, outlined in the introduction.
2. For the work, reliance has been placed on publicly available data, obtained from the sources identified in the report. The information is not exhaustive and further information may be available from other sources. When using the information it has been assumed it is correct, and no attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and guidelines, for land and groundwater contamination, enforced by the Local Authority and the Environment Agency.
4. During the site walkover, reasonable effort was made to obtain an overview of the site. However, no attempt was made to enter areas that are unsafe, a risk to health and safety, locked, barricaded, overgrown, or areas not made accessible.
5. Access, the presence of services and activities on the site, limited locations where sampling could be carried out and the techniques that could be used.
6. Assessments are based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. The conclusions and recommendations provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
8. Worms Eye cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright of this report, and other plans or documents prepared by Worms Eye, is owned by them, and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies may be made and distributed by the client, as expected, in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability, or warranties, shall be extended to other parties by Worms Eye, without their written agreement.
9. New information, revised practices, or changes in legislation, may necessitate the re-interpretation of the report, in whole or in part.

9 Ansleigh Avenue, Crumpsall, M8 5SU
Not to Scale

Plan Showing Trial Hole Locations



Proposed Site Plan

FuZED ARCHITECTURE +

Fuzed A+D Ltd, 74A Water Street, Radcliffe, Manchester, M26 4DF
Tel: 0161 724 8006 Email: fuzedarchitects@gmail.com

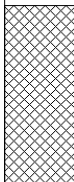
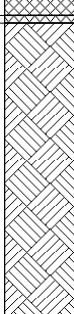
DESIGN

Scale Bar 1:200	Project: Detached dwelling @ No. 9 Ansleigh Avenue, Crumpsall	Contract No. 1022
Client: Mr O Senechko	Dwg No. 5.04	Revision D
Content: Planning Submission	Proposed Site Plan	Date May '20

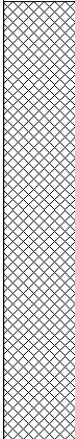
Worms Eye Ltd					Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS					Site 9 Ansleigh Avenue, Crumpsall					Trial Pit Number TH1				
Excavation Method Hand dug.			Dimensions			Ground Level (mOD)			Client Alex Senechko					Job Number M8 5SU					
			Location Northeast corner			Dates 17/06/2021			Project Contractor Worms Eye Ltd.					Sheet 1/1					
Depth (m)	Sample / Tests		Water Depth (m)	Field Records		Level (mOD)	Depth (m) (Thickness)	Description					Legend	Water					
								Brown sandy topsoil with brick, concrete and roots (made ground).											
								Brown and dark brown, very sandy, slightly clayey, possible former topsoil with occasional gravel.											
								Complete at 0.95m											
															Remarks Roots at 0.56m Trial hole dry.				
Scale (approx) 1:10										Logged By EW			Figure No. M8 5SU.TH1						

Worms Eye Ltd				Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site 9 Ansleigh Avenue, Crumpsall		Trial Pit Number TH2	
Excavation Method Hand dug.		Dimensions		Ground Level (mOD)		Client Alex Senechko		Job Number M8 5SU	
		Location Middle of eastern boundary		Dates 17/06/2021		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
						Brown clayey topsoil with occasional brick and gravel (made ground).			
						Brown and dark brown clayey former topsoil.			
						Complete at 0.80m			

	Remarks Trial hole dry.		
	Scale (approx) 1:10	Logged By EW	Figure No. M8 5SU.TH2

Worms Eye Ltd				Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS			Site 9 Ansleigh Avenue, Crumpsall		Trial Pit Number TH3	
Excavation Method Hand dug.		Dimensions		Ground Level (mOD)		Client Alex Senechko			Job Number M8 5SU	
		Location East		Dates 17/06/2021		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
					(0.25)	Brown sand with fine roots and piece of coal (made ground).				
						Slightly sandy soil with fine roots and clay pieces (made ground).				
						Layer of carpet.				
						Brown very sandy soil (possible former topsoil).				
					(0.39)					
					0.95	Complete at 0.95m				
										
Remarks										
Trial hole dry.										
Scale (approx)			Logged By			Figure No.				
1:10			EW			M8 5SU.TH3				

Worms Eye Ltd				Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site 9 Ansleigh Avenue, Crumpsall		Trial Pit Number TH4	
Excavation Method Hand dug.		Dimensions		Ground Level (mOD)		Client Alex Senechko		Job Number M8 5SU	
		Location West of site.		Dates 17/06/2021		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
					(0.30) 0.30 (0.50) 0.80	Orangish brown sand (dry) with occasional gravel.			
						Orangish brown sand (damp) with rare gravel.			
						Complete at 0.80m			
									
						Remarks Trial hole damp below 0.30m.			
						Scale (approx) 1:10		Logged By EW	

Worms Eye Ltd				Cannon House, 52 Bank Parade Burnley, Lancashire, BB11 1TS		Site 9 Ansleigh Avenue, Crumpsall		Trial Pit Number TH5	
Excavation Method Hand dug.		Dimensions		Ground Level (mOD)		Client Alex Senechko		Job Number M8 5SU	
		Location Northwest of site.				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
						Sand, clay, gravel, wire and roots (made ground).			
					(0.58)				
					0.58				
(0.22)									
0.80									

	Remarks Trial hole dry.		
	Scale (approx) 1:10	Logged By EW	Figure No. M8 5SU.TH5



Final Report

Report No.: 21-21003-1

Initial Date of Issue: 28-Jun-2021

Client Worms Eye Ltd

Client Address: 52 Bank Parade
Burnley
Lancashire
BB11 1TS

Contact(s): David Lord

Project M8 5SU 9 Ansleigh Avenue, Crumpsall

Quotation No.: Q19-18671

Date Received: 21-Jun-2021

Order No.: 17/6/DL

Date Instructed: 21-Jun-2021

No. of Samples: 5

Turnaround (Wkdays): 5

Results Due: 25-Jun-2021

Date Approved: 28-Jun-2021

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: M8 5SU 9 Ansleigh Avenue, Crumpsall

Client: Worms Eye Ltd	Chemtest Job No.:				21-21003	21-21003	21-21003	21-21003	21-21003
Quotation No.: Q19-18671	Chemtest Sample ID.:				1224843	1224844	1224845	1224846	1224847
	Sample Location:				TH1	TH2	TH3	TH4	TH5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.25	0.25	0.25	0.25	0.25
	Date Sampled:				17-Jun-2021	17-Jun-2021	17-Jun-2021	17-Jun-2021	17-Jun-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	20	16	9.0	13
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Roots and Stones	None	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.3	7.1	7.9	7.1	7.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Sulphur (Elemental)	M	2180	mg/kg	1.0	3.9	5.9	2.7	< 1.0	< 1.0
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50
Thiocyanate	M	2300	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.5	1.5	1.5	1.5	1.5
Sulphate (Total)	M	2430	mg/kg	100	560	1100	570	110	380
Arsenic	M	2450	mg/kg	1.0	15	26	8.8	3.7	12
Cadmium	M	2450	mg/kg	0.10	0.30	0.59	0.25	0.11	0.25
Chromium	M	2450	mg/kg	1.0	25	32	14	7.1	27
Copper	M	2450	mg/kg	0.50	39	170	33	17	42
Mercury	M	2450	mg/kg	0.10	0.19	0.39	< 0.10	< 0.10	0.14
Nickel	M	2450	mg/kg	0.50	28	32	17	8.0	30
Lead	M	2450	mg/kg	0.50	190	400	86	31	72
Selenium	M	2450	mg/kg	0.20	0.44	0.89	0.28	< 0.20	0.47
Zinc	M	2450	mg/kg	0.50	98	410	77	35	94
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.6	5.0	3.8	0.81	2.4
Total Organic Carbon	M	2625	%	0.20	1.5	2.9	2.2	0.47	1.4
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	12	< 1.0	< 1.0	< 1.0	2.6
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	12	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: M8 5SU 9 Ansleigh Avenue, Crumpsall

Client: Worms Eye Ltd	Chemtest Job No.:				21-21003	21-21003	21-21003	21-21003	21-21003
Quotation No.: Q19-18671	Chemtest Sample ID.:				1224843	1224844	1224845	1224846	1224847
	Sample Location:				TH1	TH2	TH3	TH4	TH5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.25	0.25	0.25	0.25	0.25
	Date Sampled:				17-Jun-2021	17-Jun-2021	17-Jun-2021	17-Jun-2021	17-Jun-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	12	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	2.1	0.92	1.1	< 0.10	0.98
Acenaphthylene	M	2700	mg/kg	0.10	0.89	0.61	0.37	< 0.10	0.82
Acenaphthene	M	2700	mg/kg	0.10	0.89	1.9	1.3	< 0.10	0.81
Fluorene	M	2700	mg/kg	0.10	1.3	1.6	0.96	< 0.10	1.0
Phenanthrene	M	2700	mg/kg	0.10	8.2	13	9.8	0.51	8.1
Anthracene	M	2700	mg/kg	0.10	1.9	2.5	2.8	0.21	2.0
Fluoranthene	M	2700	mg/kg	0.10	9.7	17	9.8	0.65	12
Pyrene	M	2700	mg/kg	0.10	11	17	9.2	0.81	14
Benzo[a]anthracene	M	2700	mg/kg	0.10	4.1	7.0	3.8	0.41	6.0
Chrysene	M	2700	mg/kg	0.10	4.6	8.6	4.8	0.64	7.2
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	5.1	8.3	4.1	0.59	7.2
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	2.5	4.2	2.0	0.64	3.0
Benzo[a]pyrene	M	2700	mg/kg	0.10	4.1	6.4	3.2	0.52	5.8
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	3.1	4.4	2.4	0.30	4.3
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	1.3	1.6	0.97	0.25	1.6
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	2.9	4.3	2.0	0.41	4.1
Total Of 16 PAH's	M	2700	mg/kg	2.0	64	99	59	5.9	79
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: M8 5SU 9 Ansleigh Avenue, Crumpsall

Project: No 0000 Ansliegh Avenue, Crampsall					Landfill Waste Acceptance Criteria						
Chemtest Job No: 21-21003					Limits						
Chemtest Sample ID: 1224845					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample Ref:											
Sample ID:											
Sample Location: TH3											
Top Depth(m): 0.25											
Bottom Depth(m):											
Sampling Date: 17-Jun-2021					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	Accred.	Units								
Total Organic Carbon	2625	M	%					2.2	3	5	6
Loss On Ignition	2610	M	%					4.5	--	--	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					59	100	--	--
pH	2010	M						7.9	--	>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	0.0036					0.036	0.5	2	25
Barium	1455	U	0.034	0.34	20	100	300				
Cadmium	1455	U	< 0.00011	< 0.00011	0.04	1	5				
Chromium	1455	U	0.0026	0.026	0.5	10	70				
Copper	1455	U	0.0062	0.062	2	50	100				
Mercury	1455	U	< 0.00005	< 0.00005	0.01	0.2	2				
Molybdenum	1455	U	0.0067	0.067	0.5	10	30				
Nickel	1455	U	0.0017	0.017	0.4	10	40				
Lead	1455	U	0.0039	0.039	0.5	10	50				
Antimony	1455	U	0.0013	0.013	0.06	0.7	5				
Selenium	1455	U	0.0011	0.011	0.1	0.5	7				
Zinc	1455	U	< 0.003	< 0.003	4	50	200				
Chloride	1220	U	1.1	11	800	15000	25000				
Fluoride	1220	U	0.36	3.6	10	150	500				
Sulphate	1220	U	3.3	33	1000	20000	50000				
Total Dissolved Solids	1020	N	120	1200	4000	60000	100000				
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610	U	4.7	< 50	500	800	1000				

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	16

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: M8 5SU 9 Ansleigh Avenue, Crumpsall

Chemtest Job No: 21-21003					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1224846					Limits		
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: TH4							
Top Depth(m): 0.25							
Bottom Depth(m):							
Sampling Date: 17-Jun-2021							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	0.47	3	5	6
Loss On Ignition	2610	M	%	1.9	--	--	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	5.9	100	--	--
pH	2010	M		7.1	--	>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	0.0017	0.017	0.5	2	25
Barium	1455	U	0.006	0.059	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	0.0069	0.069	0.5	10	70
Copper	1455	U	0.0041	0.041	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0011	0.011	0.5	10	30
Nickel	1455	U	0.0028	0.028	0.4	10	40
Lead	1455	U	0.0041	0.041	0.5	10	50
Antimony	1455	U	0.0008	0.0081	0.06	0.7	5
Selenium	1455	U	0.0007	0.0070	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	4	50	200
Chloride	1220	U	1.9	19	800	15000	25000
Fluoride	1220	U	0.26	2.6	10	150	500
Sulphate	1220	U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020	N	20	200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	5.3	53	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	9.0

Waste Acceptance Criteria

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

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	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-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

Test Methods

SOP	Title	Parameters included	Method summary
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; 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.
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

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Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/ Fail	SSAC	Pass/ Fail	Failed Samples
HEAVY METALS						
- Arsenic	26	37*	✓			
- Cadmium	0.59	11*	✓			
- Chromium III	32	910*	✓			
- Chromium VI	<0.50	6*	✓			
- Copper	170	2400*	✓			
- Lead	400	200▲	X			TH2 – 0.25m
- Inorganic Mercury	0.39	40*	✓			
- Methyl Mercury	0.39	11*	✓			
- Nickel	32	180*	✓			
- Selenium	0.89	350#	✓			
- Zinc	410	3700*	✓			
OTHER INORGANICS						
- Asbestos	N.D.		✓			
- Cyanide (total)	0.80	20 (D)	✓			
- pH range	7.1 – 8.3		-			
- Sulphate (g/l)	<0.010	0.5 (B)	✓			
- Sulphide	1.5	250 (E)	✓			
- Thiocyanate	<5.0		✓			
-TOC range (%)	0.47 – 2.9		-			
-SOM Range	0.81 – 5.0		-			

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

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

Sources

- Soil Guideline Values ▲ - C4SL

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

® - CLEA 1.06 Software

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

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Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
PAHs						
- Acenaphthene	1.9	210*	✓			
- Acenaphthylene	0.89	170*	✓			
- Anthracene	2.8	2400*	✓			
- Benz(a)anthracene	7.0	7.2*	✓			
- Benzo(a)pyrene (BAP)*	6.4	2.2*	X			TH1 – 0.25m, TH2 – 0.25m, TH3 – 0.25m, TH5 – 0.25m
- Benzo(b)fluoranthene	8.3	2.6*	X			TH1 – 0.25m, TH2 – 0.25m, TH3 – 0.25m, TH5 – 0.25m
- Benzo(ghi)perylene	4.3	320*	✓			
- Benzo(k)fluoranthene	4.2	77*	✓			
- Chrysene	8.6	15*	✓			
- Dibenzo(ah)anthracene (DBA)	1.6	0.24*	X			TH1 – 0.25m, TH2 – 0.25m, TH3 – 0.25m, TH4 – 0.25m, TH5 – 0.25m
- Fluoranthene	17	280*	✓			
- Fluorene	1.6	170*	✓			
- Indene (123-cd) pyrene	4.4	27*	✓			
- Naphthalene	2.1	2.3*	✓			
- Phenanthrene	13	95*	✓			
- Pyrene	17	620*	✓			
OTHER COMPOUNDS						
Phenols	<0.10	280*	✓			

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

Hydrocarbon values derived using 1% 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

® - CLEA 1.06 Software

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

9 ANSLEIGH AVENUE, CRUMPSALL, M8 5SU

Comparison of Contamination Test Results with Various Thresholds

RESIDENTIAL WITH HOMEGROWN VEGETABLES

Hydrocarbons at 1% SOM

Contaminant	Max Value	Threshold	Pass/Fail	SSAC	Pass/Fail	Failed Samples
BTEX COMPOUNDS						
- Benzene	<0.001	0.087*	✓			
- Toluene	<0.001	130*	✓			
- Ethyl-benzene	<0.001	47*	✓			
- Xylene - O	<0.001	60*	✓			
- M/P	<0.001	56*	✓			
TPHs						
Aliphatics						
C ₅ – C ₆	<1.0	42*	✓			
C ₆ – C ₈	<1.0	100*	✓			
C ₈ – C ₁₀	<1.0	27*	✓			
C ₁₀ – C ₁₂	<1.0	130 (48 vap)*	✓			
C ₁₂ – C ₁₆	<1.0	1100 (24 sol)*	✓			
C ₁₆ – C ₃₅	12	65000 (8.48 sol)*	✓			
Aromatics						
C ₅ – C ₇	<1.0	70*	✓			
C ₇ – C ₈	<1.0	130*	✓			
C ₈ – C ₁₀	<1.0	34*	✓			
C ₁₀ – C ₁₂	<1.0	74*	✓			
C ₁₂ – C ₁₆	<1.0	140*	✓			
C ₁₆ – C ₂₁	<1.0	260*	✓			
C ₂₁ – C ₃₅	<1.0	1100*	✓			

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

Hydrocarbon values derived using 1% 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)



EQWWQ-KJR9Z-5J87N

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

Job name

9 Ansleigh Avenue, Crumpsall, M8 5SU

Description/Comments

Project

9 Ansleigh Avenue, Crumpsall, M8 5SU

Site

9 Ansleigh Avenue, Crumpsall, M8 5SU

Classified by

Name: **Emma Lord**
Date: **30 Jun 2021 09:04 GMT**
Telephone: **01282 414649**
Company: **Worms Eye Ltd**
52 Bank Parade
Burnley
BB11 1TS

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	TH1	0.25	Non Hazardous		2
2	TH2	0.25	Non Hazardous		5
3	TH3	0.25	Non Hazardous		7
4	TH4	0.25	Non Hazardous		9
5	TH5	0.25	Non Hazardous		11

Related documents

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

Report

Created by: Emma Lord

Created date: 30 Jun 2021 09:04 GMT

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	13
Appendix B: Rationale for selection of metal species	14
Appendix C: Version	15

Classification of sample: TH1

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

Sample details

Sample name:	LoW Code:	
TH1	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		
Moisture content:		
11%		
(no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
	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) }				25	mg/kg	1.462	36.539	mg/kg	0.00365 %		
		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 }				39	mg/kg	1.126	43.91	mg/kg	0.00439 %		
	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	190	mg/kg	1.56	296.365	mg/kg	0.019 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.19	mg/kg	1.353	0.257	mg/kg	0.0000257 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				28	mg/kg	1.579	44.226	mg/kg	0.00442 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				8.3	pH		8.3	pH	8.3 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 }				0.44	mg/kg	1.405	0.618	mg/kg	0.0000618 %		
	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				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				12 mg/kg		12 mg/kg	0.0012 %		
			TPH							
19	acenaphthene				0.89 mg/kg		0.89 mg/kg	0.000089 %		
		201-469-6	83-32-9							
20	acenaphthylene				0.89 mg/kg		0.89 mg/kg	0.000089 %		
		205-917-1	208-96-8							
21	anthracene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				4.1 mg/kg		4.1 mg/kg	0.00041 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				4.1 mg/kg		4.1 mg/kg	0.00041 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				5.1 mg/kg		5.1 mg/kg	0.00051 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				2.5 mg/kg		2.5 mg/kg	0.00025 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
		205-883-8	191-24-2							
27	chrysene				4.6 mg/kg		4.6 mg/kg	0.00046 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				9.7 mg/kg		9.7 mg/kg	0.00097 %		
		205-912-4	206-44-0							
30	fluorene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				3.1 mg/kg		3.1 mg/kg	0.00031 %		
		205-893-2	193-39-5							
32	naphthalene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				8.2 mg/kg		8.2 mg/kg	0.00082 %		
		201-581-5	85-01-8							
34	pyrene				11 mg/kg		11 mg/kg	0.0011 %		
		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:								0.0535 %		

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. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0012%)

Classification of sample: TH2

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

Sample details

Sample name:	LoW Code:
TH2	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
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				26	mg/kg	1.32	34.328	mg/kg	0.00343 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.59	mg/kg	1.285	0.758	mg/kg	0.000059 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32	mg/kg	1.462	46.77	mg/kg	0.00468 %		
		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 }				170	mg/kg	1.126	191.401	mg/kg	0.0191 %		
	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	400	mg/kg	1.56	623.926	mg/kg	0.04 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.39	mg/kg	1.353	0.528	mg/kg	0.0000528 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				32	mg/kg	1.579	50.544	mg/kg	0.00505 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				7.1	pH		7.1	pH	7.1 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 }				0.89	mg/kg	1.405	1.25	mg/kg	0.000125 %		
	034-002-00-8											
13	zinc { zinc oxide }				410	mg/kg	1.245	510.333	mg/kg	0.051 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
19	acenaphthene				1.9 mg/kg		1.9 mg/kg	0.00019 %			
		201-469-6	83-32-9								
20	acenaphthylene				0.61 mg/kg		0.61 mg/kg	0.000061 %			
		205-917-1	208-96-8								
21	anthracene				2.5 mg/kg		2.5 mg/kg	0.00025 %			
		204-371-1	120-12-7								
22	benzo[a]anthracene				7 mg/kg		7 mg/kg	0.0007 %			
	601-033-00-9	200-280-6	56-55-3								
23	benzo[a]pyrene; benzo[def]chrysene				6.4 mg/kg		6.4 mg/kg	0.00064 %			
	601-032-00-3	200-028-5	50-32-8								
24	benzo[b]fluoranthene				8.3 mg/kg		8.3 mg/kg	0.00083 %			
	601-034-00-4	205-911-9	205-99-2								
25	benzo[k]fluoranthene				4.2 mg/kg		4.2 mg/kg	0.00042 %			
	601-036-00-5	205-916-6	207-08-9								
26	benzo[ghi]perylene				4.3 mg/kg		4.3 mg/kg	0.00043 %			
		205-883-8	191-24-2								
27	chrysene				8.6 mg/kg		8.6 mg/kg	0.00086 %			
	601-048-00-0	205-923-4	218-01-9								
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				1.6 mg/kg		1.6 mg/kg	0.00016 %			
		201-695-5	86-73-7								
31	indeno[123-cd]pyrene				4.4 mg/kg		4.4 mg/kg	0.00044 %			
		205-893-2	193-39-5								
32	naphthalene				0.92 mg/kg		0.92 mg/kg	0.000092 %			
	601-052-00-2	202-049-5	91-20-3								
33	phenanthrene				13 mg/kg		13 mg/kg	0.0013 %			
		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:									0.135 %		

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: TH3

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

Sample details

Sample name:	LoW Code:
TH3	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)
16%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8.8	mg/kg	1.32	11.619	mg/kg	0.00116 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.25	mg/kg	1.285	0.321	mg/kg	0.000025 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	20.462	mg/kg	0.00205 %		
		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 }				33	mg/kg	1.126	37.154	mg/kg	0.00372 %		
	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 }				0.8	mg/kg	1.884	1.507	mg/kg	0.000151 %		
	006-007-00-5											
7	lead { lead chromate }			1	86	mg/kg	1.56	134.144	mg/kg	0.0086 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				7.9	pH		7.9	pH	7.9 pH		
			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 }				0.28	mg/kg	1.405	0.393	mg/kg	0.0000393 %		
	034-002-00-8											
13	zinc { zinc oxide }				77	mg/kg	1.245	95.843	mg/kg	0.00958 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
19	acenaphthene				1.3 mg/kg		1.3 mg/kg	0.00013 %			
		201-469-6	83-32-9								
20	acenaphthylene				0.37 mg/kg		0.37 mg/kg	0.000037 %			
		205-917-1	208-96-8								
21	anthracene				2.8 mg/kg		2.8 mg/kg	0.00028 %			
		204-371-1	120-12-7								
22	benzo[a]anthracene				3.8 mg/kg		3.8 mg/kg	0.00038 %			
	601-033-00-9	200-280-6	56-55-3								
23	benzo[a]pyrene; benzo[def]chrysene				3.2 mg/kg		3.2 mg/kg	0.00032 %			
	601-032-00-3	200-028-5	50-32-8								
24	benzo[b]fluoranthene				4.1 mg/kg		4.1 mg/kg	0.00041 %			
	601-034-00-4	205-911-9	205-99-2								
25	benzo[k]fluoranthene				2 mg/kg		2 mg/kg	0.0002 %			
	601-036-00-5	205-916-6	207-08-9								
26	benzo[ghi]perylene				2 mg/kg		2 mg/kg	0.0002 %			
		205-883-8	191-24-2								
27	chrysene				4.8 mg/kg		4.8 mg/kg	0.00048 %			
	601-048-00-0	205-923-4	218-01-9								
28	dibenz[a,h]anthracene				0.97 mg/kg		0.97 mg/kg	0.000097 %			
	601-041-00-2	200-181-8	53-70-3								
29	fluoranthene				9.8 mg/kg		9.8 mg/kg	0.00098 %			
		205-912-4	206-44-0								
30	fluorene				0.96 mg/kg		0.96 mg/kg	0.000096 %			
		201-695-5	86-73-7								
31	indeno[123-cd]pyrene				2.4 mg/kg		2.4 mg/kg	0.00024 %			
		205-893-2	193-39-5								
32	naphthalene				1.1 mg/kg		1.1 mg/kg	0.00011 %			
	601-052-00-2	202-049-5	91-20-3								
33	phenanthrene				9.8 mg/kg		9.8 mg/kg	0.00098 %			
		201-581-5	85-01-8								
34	pyrene				9.2 mg/kg		9.2 mg/kg	0.00092 %			
		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:									0.035 %		

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: TH4

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

Sample details

Sample name:	LoW Code:
TH4	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)
9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				3.7	mg/kg	1.32	4.885	mg/kg	0.000489 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.11	mg/kg	1.285	0.141	mg/kg	0.000011 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.1	mg/kg	1.462	10.377	mg/kg	0.00104 %		
		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 }				17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
	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	31	mg/kg	1.56	48.354	mg/kg	0.0031 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				8	mg/kg	1.579	12.636	mg/kg	0.00126 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				7.1	pH		7.1	pH	7.1 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 }				<0.2	mg/kg	1.405	<0.281	mg/kg	<0.0000281 %		<LOD
	034-002-00-8											
13	zinc { zinc oxide }				35	mg/kg	1.245	43.565	mg/kg	0.00436 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
19	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
21	anthracene				0.21 mg/kg		0.21 mg/kg	0.000021 %			
		204-371-1	120-12-7								
22	benzo[a]anthracene				0.41 mg/kg		0.41 mg/kg	0.000041 %			
	601-033-00-9	200-280-6	56-55-3								
23	benzo[a]pyrene; benzo[def]chrysene				0.52 mg/kg		0.52 mg/kg	0.000052 %			
	601-032-00-3	200-028-5	50-32-8								
24	benzo[b]fluoranthene				0.59 mg/kg		0.59 mg/kg	0.000059 %			
	601-034-00-4	205-911-9	205-99-2								
25	benzo[k]fluoranthene				0.64 mg/kg		0.64 mg/kg	0.000064 %			
	601-036-00-5	205-916-6	207-08-9								
26	benzo[ghi]perylene				0.41 mg/kg		0.41 mg/kg	0.000041 %			
		205-883-8	191-24-2								
27	chrysene				0.64 mg/kg		0.64 mg/kg	0.000064 %			
	601-048-00-0	205-923-4	218-01-9								
28	dibenz[a,h]anthracene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
	601-041-00-2	200-181-8	53-70-3								
29	fluoranthene				0.65 mg/kg		0.65 mg/kg	0.000065 %			
		205-912-4	206-44-0								
30	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
31	indeno[123-cd]pyrene				0.3 mg/kg		0.3 mg/kg	0.00003 %			
		205-893-2	193-39-5								
32	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
33	phenanthrene				0.51 mg/kg		0.51 mg/kg	0.000051 %			
		201-581-5	85-01-8								
34	pyrene				0.81 mg/kg		0.81 mg/kg	0.000081 %			
		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:									0.014 %		

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: TH5

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

Sample details

Sample name:	LoW Code:
TH5	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)
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.25	mg/kg	1.285	0.321	mg/kg	0.000025 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27	mg/kg	1.462	39.462	mg/kg	0.00395 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	copper { dicopper oxide; copper (I) oxide }				42	mg/kg	1.126	47.287	mg/kg	0.00473 %		
	029-002-00-X	215-270-7	1317-39-1									
6	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
7	lead { lead chromate }			1	72	mg/kg	1.56	112.307	mg/kg	0.0072 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.14	mg/kg	1.353	0.189	mg/kg	0.0000189 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel dihydroxide }				30	mg/kg	1.579	47.385	mg/kg	0.00474 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
10	pH				7.6	pH		7.6	pH	7.6 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 selenide and those specified elsewhere in this Annex }				0.47	mg/kg	1.405	0.66	mg/kg	0.000066 %		
	034-002-00-8											
13	zinc { zinc oxide }				94	mg/kg	1.245	117.003	mg/kg	0.0117 %		
	030-013-00-7	215-222-5	1314-13-2									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
19	acenaphthene				0.81 mg/kg		0.81 mg/kg	0.000081 %		
		201-469-6	83-32-9							
20	acenaphthylene				0.82 mg/kg		0.82 mg/kg	0.000082 %		
		205-917-1	208-96-8							
21	anthracene				2 mg/kg		2 mg/kg	0.0002 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				6 mg/kg		6 mg/kg	0.0006 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				5.8 mg/kg		5.8 mg/kg	0.00058 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				7.2 mg/kg		7.2 mg/kg	0.00072 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				3 mg/kg		3 mg/kg	0.0003 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				4.1 mg/kg		4.1 mg/kg	0.00041 %		
		205-883-8	191-24-2							
27	chrysene				7.2 mg/kg		7.2 mg/kg	0.00072 %		
	601-048-00-0	205-923-4	218-01-9							
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				12 mg/kg		12 mg/kg	0.0012 %		
		205-912-4	206-44-0							
30	fluorene				1 mg/kg		1 mg/kg	0.0001 %		
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				4.3 mg/kg		4.3 mg/kg	0.00043 %		
		205-893-2	193-39-5							
32	naphthalene				0.98 mg/kg		0.98 mg/kg	0.000098 %		
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				8.1 mg/kg		8.1 mg/kg	0.00081 %		
		201-581-5	85-01-8							
34	pyrene				14 mg/kg		14 mg/kg	0.0014 %		
		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:								0.0431 %		

Key

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

Appendix A: Classifier defined and non CLP determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

CLP index number: 006-007-00-5

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

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

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

Reason for additional Hazards Statement(s):

14 Dec 2015 - 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)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

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

■ **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

Worst case species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

zinc {zinc oxide}

Suspected

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2021.162.4804.9151 (21 Jun 2021)

HazWasteOnline Database: 2021.162.4804.9151 (21 Jun 2021)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

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 2019 - UK: 2019 No. 720 of 27th March 2019

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

POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019

CLEA Software Version 1.071

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Report generated 09-Jul-21

Report title 9 Ansleigh Avenue, Crumpsall

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)
21		
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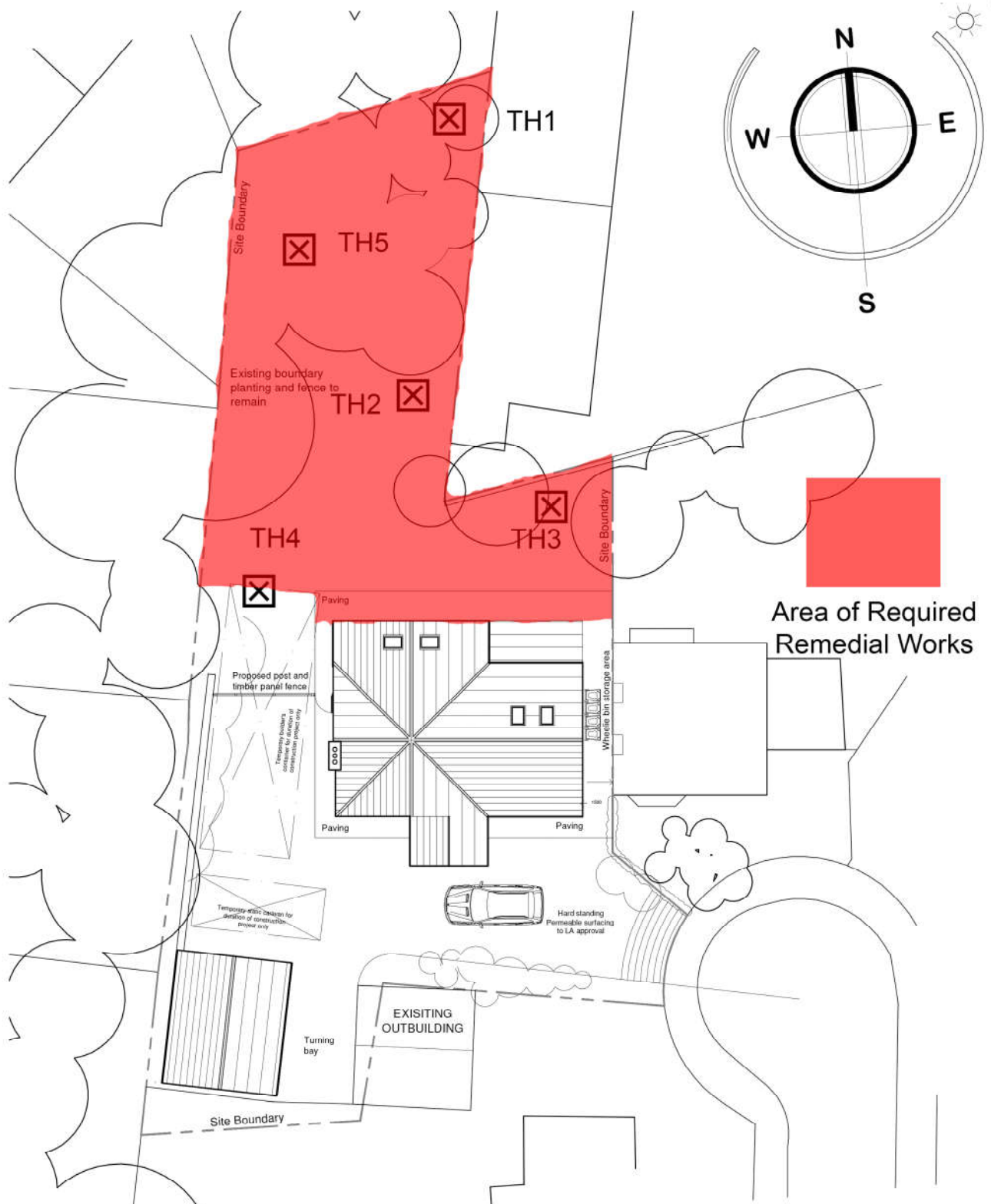
[illegible]

[illegible]

[illegible]

9 Ansleigh Avenue, Crumpsall, M8 5SU
Not to Scale

Plan Showing Area of Required Remedial Works

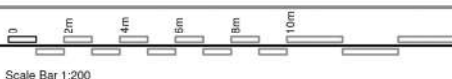


Proposed Site Plan

FuZED ARCHITECTURE +

Fuzed A+D Ltd, 74A Water Street, Radcliffe, Manchester, M26 4DF
Tel: 0161 724 8006 Email: fuzedarchitects@gmail.com

DESIGN



Project:	Detached dwelling @ No. 9 Ansleigh Avenue, Crumpsall
Client:	Mr O Senechko
Content:	Planning Submission Proposed Site Plan

Contract No.	1022
Dwg No.	5.04
Revision	D
Date	May '20