

GeoEnvironmental

Rochdale Road Manchester
Validation Report for Remediation Activities

For

Chartrange Ltd

Report Ref: 3345-26-R03v3
Report Date: March 2023

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1 Introduction

1.1 Scope of Services / Intended Purpose

Chartrange Ltd instructed Geoenvironmental Consulting Ltd (GECL) to provide a Validation Report for Remediation Activities undertaken at Rochdale Road Manchester.

The objective of this validation report is to set out what has been done to remediate the site to an acceptable standard such that it is suitable for its intended use.

This report has been produced using information provided by Chartrange Ltd and information gained during visiting supervision undertaken between July and November 2023.

1.2 The Proposed Development (Ground Floor)

The proposed development is shown in Figure 1 and comprises: Erection of a part 11, part 13 storey building to form residential apartments together with the erection of two blocks of 3 storey duplexes to form 237 residential homes in total with associated commercial floor, basement car parking, landscaping and public realm, and associated engineering and infrastructure works following demolition of existing buildings and structures. .

A copy of the design team's proposed ground floor layout drawing is included in Appendix A

Figure 1 – Proposed Development (Ground Floor)



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Layout:
Plan It IE Ltd,
Ref 2624-PLA-XX-XX-DR-L-0002

Base Plans:
Mastermap & OSM

1.3 The Proposed Development (Basement Level)

The proposed basement level layout is shown in Figure 2, and its extent is indicated by a blue dotted line. It comprises a single level basement beneath the northern apartment block, containing 29 car parking spaces, access ramps and utility areas. A reduced level dig will be required over the footprint of the basement level to reach proposed basement formation level.

A copy of the design team's proposed layout for the basement is included in Appendix A.

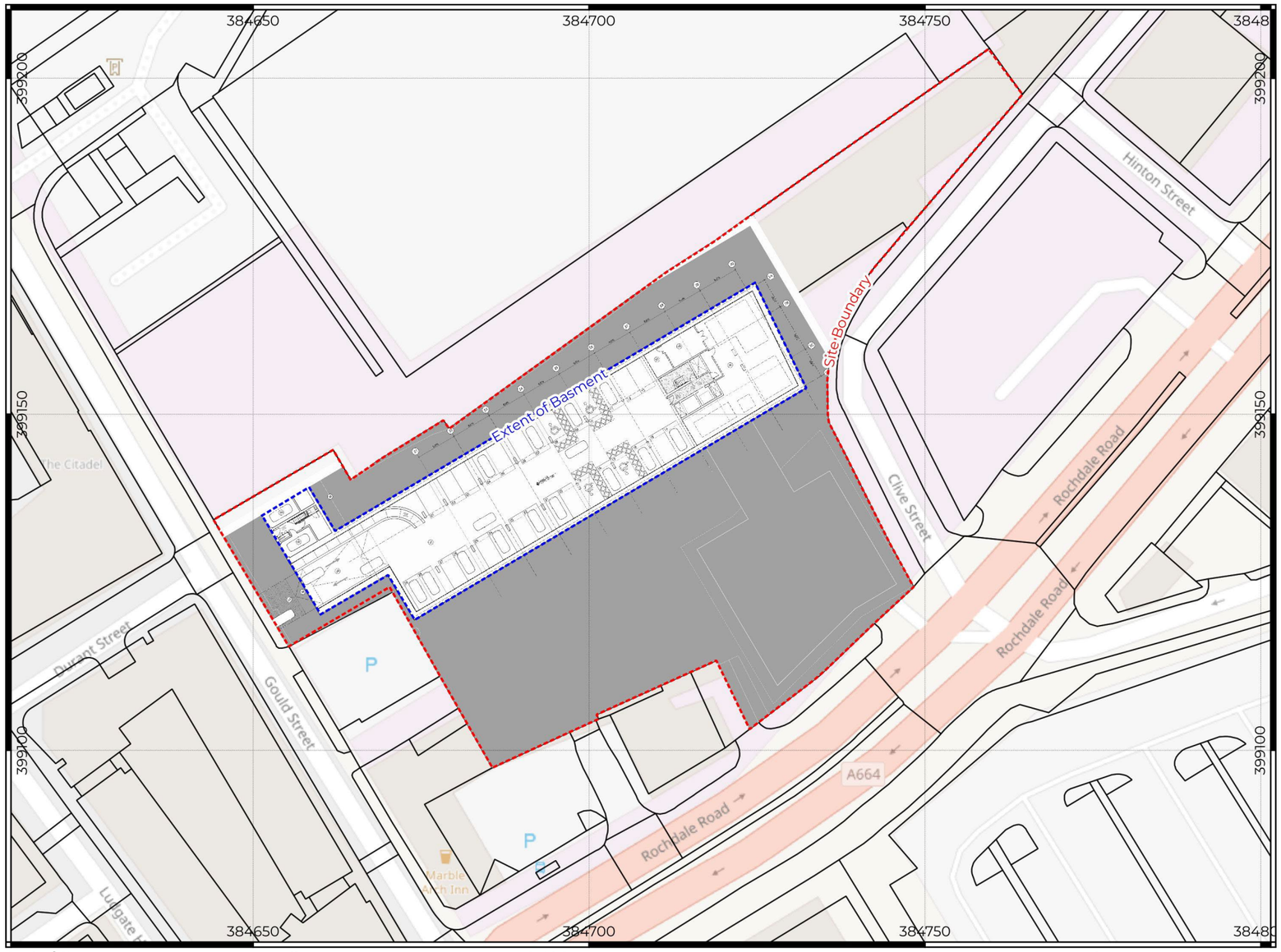
1.4 Planning Status

This report has been produced to discharge planning conditions relating to ground, included in the decision notice in Appendix B.

1.5 The Appointment

The scope of work is defined by and limited to "the Services" set out in the Appointment. A copy of the appointment including the agreed services and terms is included in Appendix C.

Figure 2 – Proposed Development – Basement Level



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Layout:
Jon Matthews Architects
Ref 136-JMA-mp-LG-P-A-022199

Base Plans:
Mastermap & OSM

2 The Site

2.1 Site Description

The site is located at OSGR 384700, 399150. The nearest postcode is M4 4 HY. An aerial photo of the site is shown in Figure 3.

The subject site is an irregular shaped parcel of land located to the east of Manchester City Centre. The site is currently occupied a carpark and Car Tyre depot repair garage and sales forecourt.

The site is predominantly hard standing. 3No. single and two-storey structures are located in the north east and south of the site.

The western site boundary is formed by what appears to be a brick retaining wall supporting the site with the adjacent land at a notably lower elevation.

2.2 Existing Information

The following reports and search information have been made available by the client team.

- GECL report: Rochdale Road Manchester Asbestos in Soils Management Plan For Chartrange Ltd Ref: 3345-26-R01-v3 Date: July 2023
- GECL Report: Rochdale Road Manchester MMP date issued 11/8/23.
- E3P Report - Phase I Geo-Environmental Site Assessment Land off Rochdale Road Manchester, M4 4HY Prepared for: Portwood Developments Ltd Report Ref: 12-922-R1 Date Issued: December 2018
- Waterman Infrastructure & Environment Limited Report - Generic Quantitative Risk Assessment Rochdale Road, Manchester January 2023
- Waterman Infrastructure & Environment Limited Report - Rochdale Road, Manchester Remediation Strategy December 2022 ref WIE19453-100-R-3-2-1-Rem Strat
- Waterman Structures Ltd Rochdale Road, Manchester Specification For Earthworks, ref 23C002-WSL-SPC-S-0006
- SEP Geophysical Report 87 Rochdale Road, Manchester Geophysical Report ref G-22_162-1(00)

The existing information has been used to inform the preliminary contaminated land and engineering assessments. Existing reports and information provided by others has been referred to in good faith as being accurate. GECL do not accept any liability for inaccuracies or deficiencies in third party information.

Figure 3 – The Site



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Base Plans:
Aerial photo

3 Validation

3.1 Site Attendance / Watching Brief

The contractor supervised the works full time and invited a suitably qualified and experienced geo-environmental / remediation engineer to attend on a visiting basis.

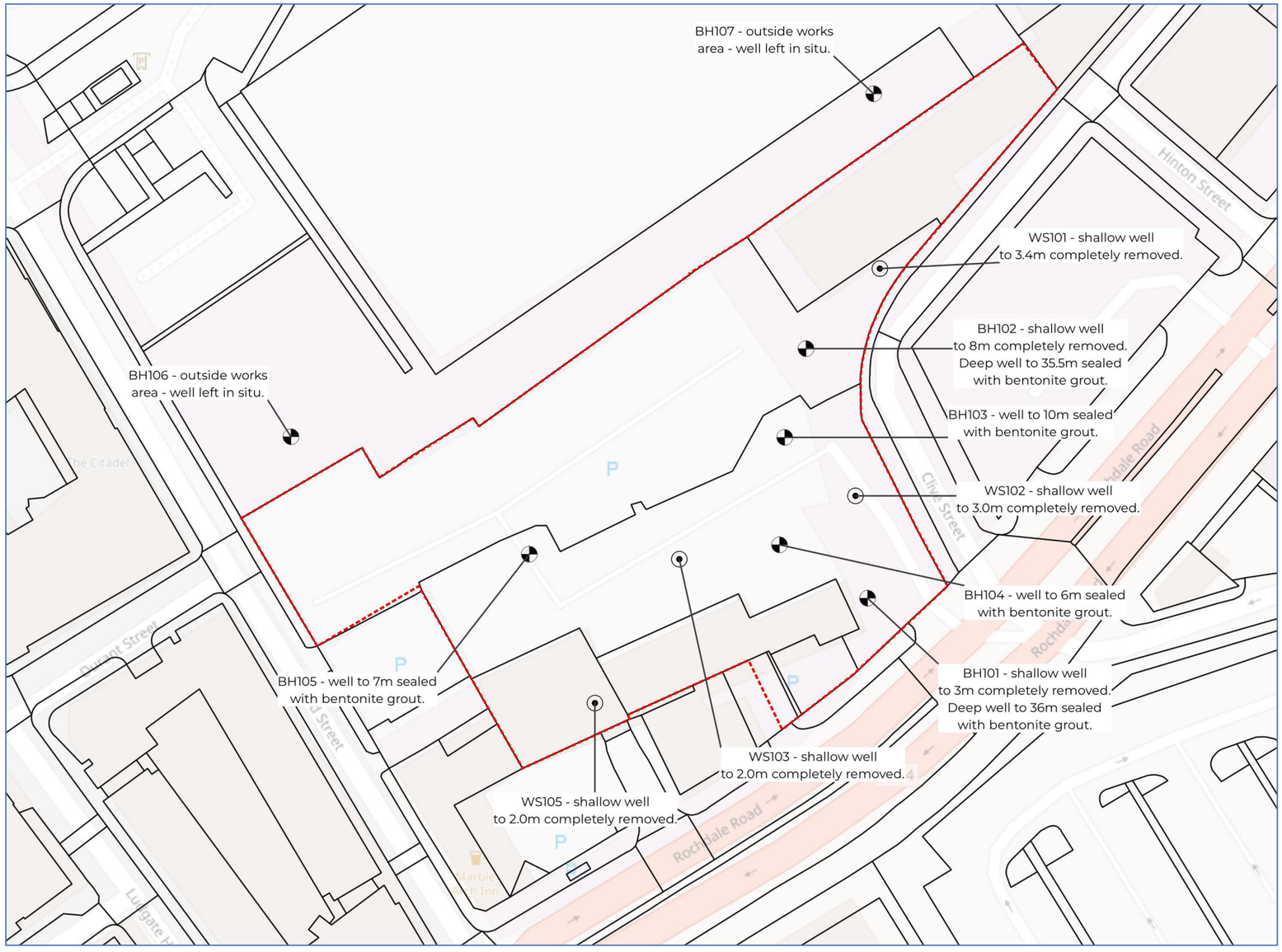
3.2 Well Decommissioning

Boreholes drilled during the previous ground investigations were located and decommissioned in line with a methodology approved by the Environmental Engineer.

Existing wells within the works areas were either removed completely as part of earthworks activities or located in the base of the earthworks area and sealed with bentonite to the base of the well to remove any existing pathways.

A summary of decommissioning work is provided in Figure 4. Photos of the decommissioned wells are provided in Appendix D.

Figure 4 – Well Decommissioning Works



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Base Plans:
Open Street Map

3.3 Asbestos in Air Monitoring

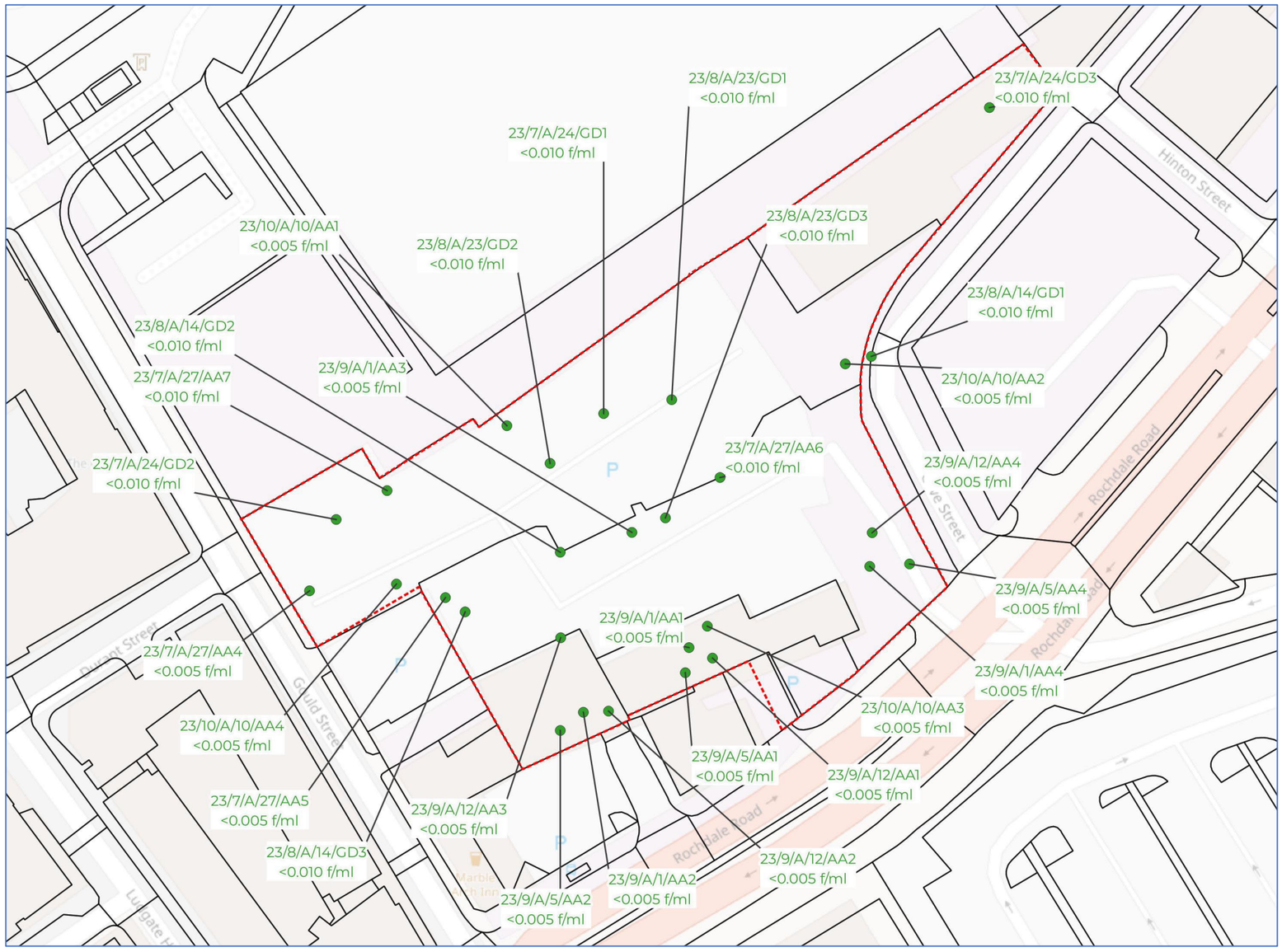
Asbestos in air monitoring was carried out by a specialist contractor during critical earthworks activities, including asbestos picking, hotspot removal and bulk earthworks. A combination of background, near source and far source monitoring was carried out.

The findings of the testing and analysis were that in all cases, the measured respirable airborne fibre concentrations were below the limit of quantification and no remedial measures were necessary.

A summary of the asbestos in air monitoring indicating the monitoring locations and the reported values of respirable fibre concentrations is given in Figure 5.

Copies of the air test certificates are included in Appendix E.

Figure 5 – Asbestos in Air Monitoring



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Base Plans:
Open Street Map

3.4 Asbestos in Soils Removal and Validation

Visual evidence of the presence of asbestos tiles was encountered in the ground investigation in TP111 and TP113. No observations relating to asbestos were made in any of the other exploratory holes.

Both of the occurrences of asbestos tiles were within the footprint area of the reduced level dig for the proposed basement.

On encountering asbestos in the vicinity of TP111 and TP113, work stopped, and the areas were cordoned off to prevent access.

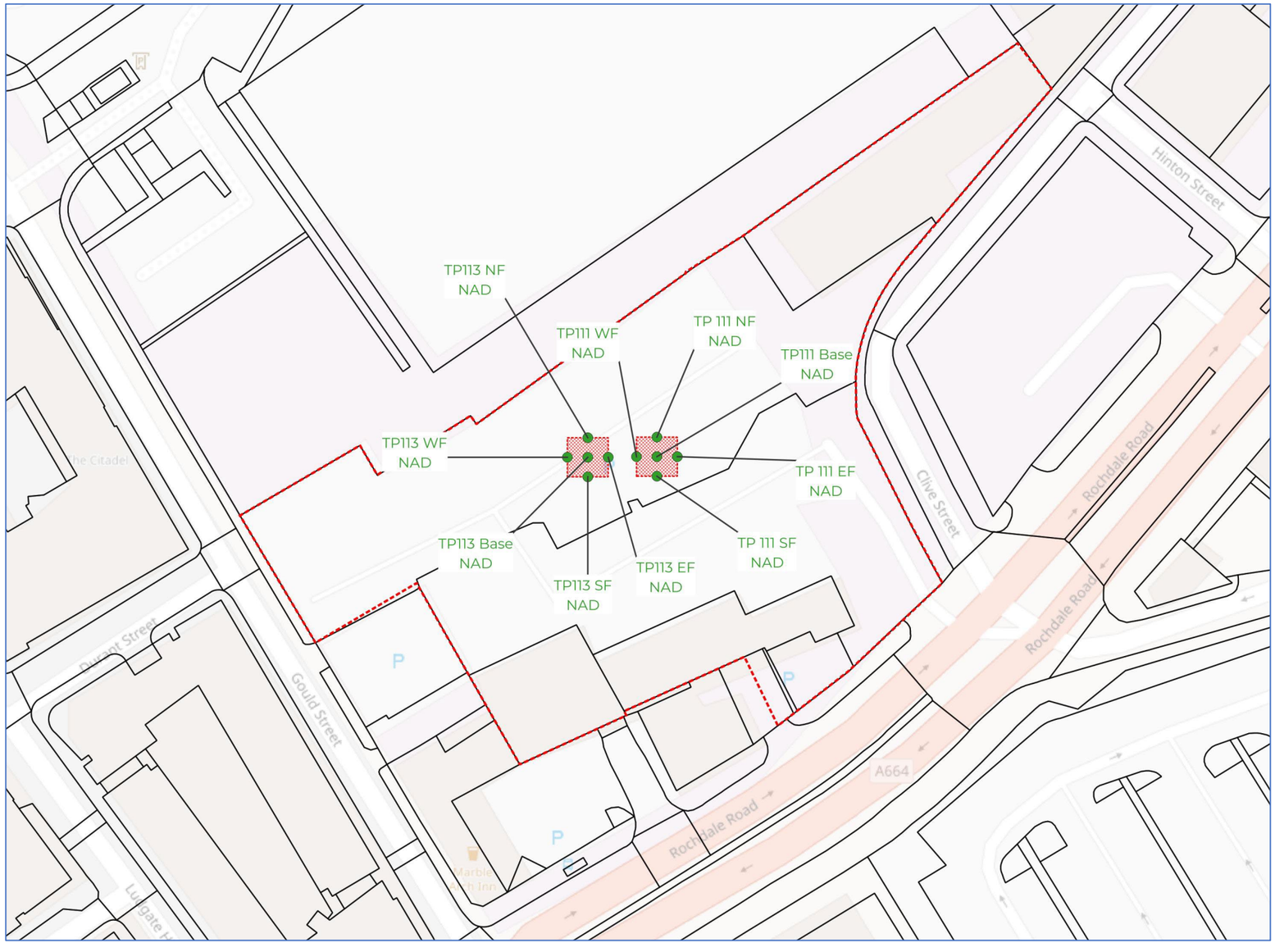
Asbestos containing materials (ACM) were hand-picked and disposed off-site to a suitably licenced facility by suitably qualified personnel.

Following removal of the asbestos impacted materials, validation samples were taken in the sides and base of the excavations. The locations of the validation samples and a summary of the results of are indicated in Figure 6. All of the ten validation samples returned *no asbestos determined* (NAD) in the laboratory tests. Copies of the laboratory test certificates are included in Appendix F.

The waste was taken by a registered waste carrier in accordance with Waste Management Regulations.

The waste transfer notes for the removal, survey of the impacted material and asbestos analysis carried out on samples of the material is included in Appendix G.

Figure 6 – Asbestos in Soils Validation Sampling



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Base Plans:
Open Street Map

3.5 Hotspot Removal

A watching brief was carried out by suitably experienced engineers during earthworks activities to identify materials exhibiting evidence of gross visual or olfactory contamination such as brightly coloured or strongly smelling materials, free hydrocarbon product or gas works waste.

Hotspots requiring remediation were identified in the remediation strategy as being the soils encountered around TP113 and TP121 (as noted in section 3.1.2 of the remediation strategy).

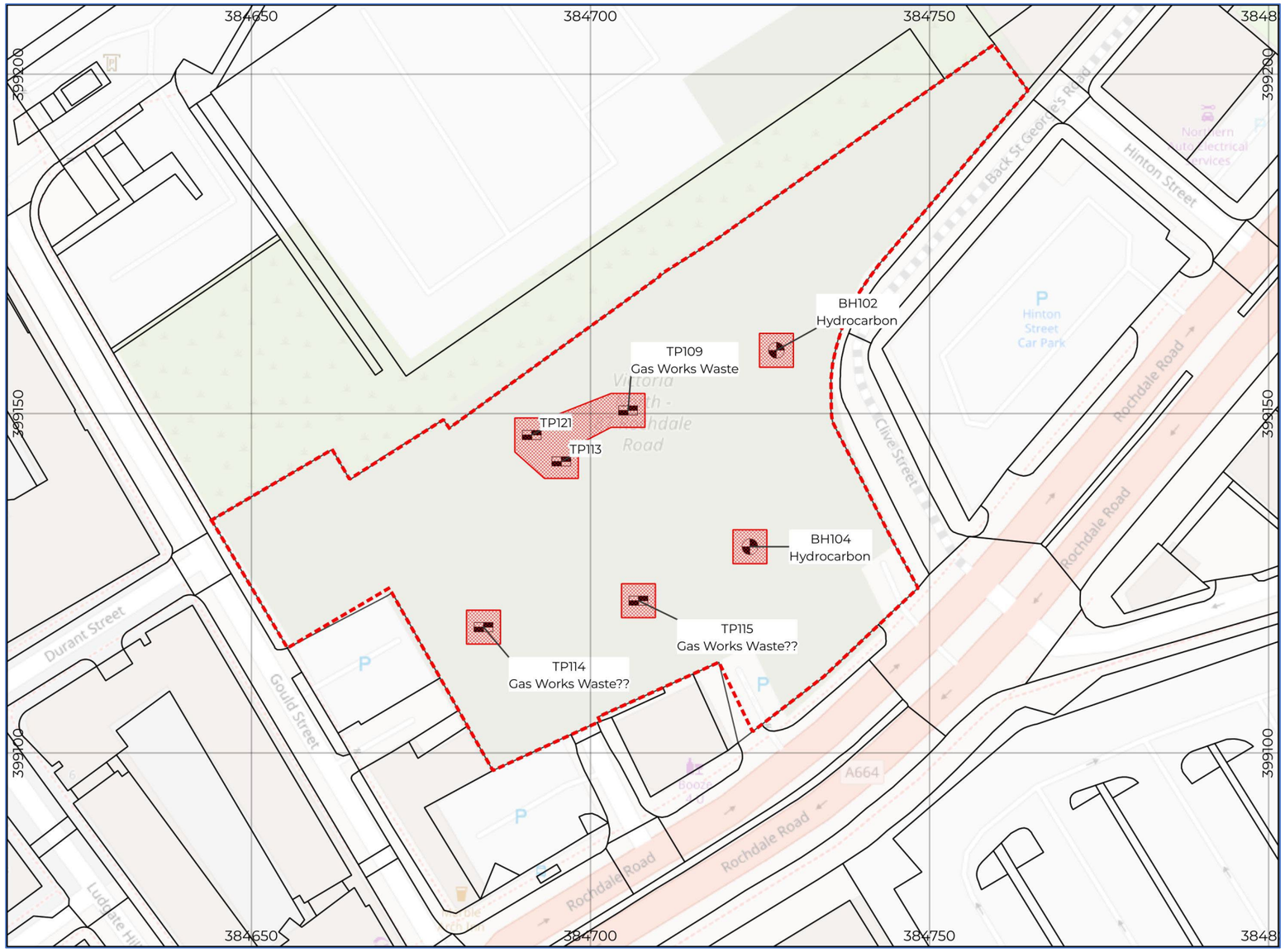
In addition to the hotspot around TP113 and TP121, other areas were identified as containing evidence of gross contamination which required removal from site. These included the areas around BH102 (hydrocarbon contamination), BH104 (hydrocarbon contamination), TP114 (gas works waste) and TP115 (gas works waste).

Materials deemed unsuitable by the engineer were segregated and disposed of by the contractor.

The extent of hotspot removals and descriptions of contamination types removed are shown indicatively with red hatching in Figure 7. As part of the reduced level dig, any soils exhibiting visual or olfactory evidence of contamination were stockpiled separately and removed from site.

Following removal of contaminated soils, validation samples were taken in the sides and base of the excavations. Copies of the laboratory test certificates are included in Appendix H.

Figure 7 Hotspot Removal Excavations



Scale / Site Area
1:750 / 0.5 Ha

Redline:
Planning Boundary

Grid System:
British National Grid (m)

Base Plans:
Open Street Map

3.6 Verification of Recycled 6F2

Recycled 6F2 was used for the piling mat. Testing was carried out on site for the general suite of contaminants contained in the remediation strategy referenced in Section 2.2

The lab data from recycled 6F2 were screened against the import criteria and are presented in the table opposite. Assessment criteria for each determinand are listed in bold text. Any soils data below the assessment criteria are highlighted green.

Of the 3 samples of recycled 6F2, all of the determinands returned concentrations below the required import criteria. Copies of the laboratory certificates for the recycled subsoils are included in Appendix I.

Recycled 6F2 Suitability Summary Table

Lab Sample ID		**23/10000/1**	**23/10000/2**	**23/10000/3**	**Units**	**LOD**	**Lab Sample ID**		**23/10000/1**	**23/10000/2**	**23/10000/3**	**Units**	**LOD**
Client Sample No		**1**	**2**	**3**			**Client Sample No**		**1**	**2**	**3**		
Client Sample ID		**6F2**	**6F2**	**6F2**			**Client Sample ID**		**6F2**	**6F2**	**6F2**		
	Import Criteria	**SOIL**	**SOIL**	**SOIL**				**Import Criteria**	**SOIL**	**SOIL**	**SOIL**		
Cyanide (total)	**26**	<1	<1	<1	mg/kg	1	Chrysene	**30**	1.63	2.26	2.20	mg/kg	0.06
Phenols - Total by HPLC	**750**	<0.2	<0.2	<0.2	mg/kg	0.2	Dibenzo(ah)anthracene	**0.31**	<0.40	<0.40	<0.40	mg/kg	0.04
Antimony	**550**	<5	<5	<5	mg/kg	5	Fluoranthene	**100**	3.39	4.60	4.34	mg/kg	0.08
Arsenic	**40**	3	5	3	mg/kg	1	Fluorene	**100**	0.33	0.39	0.60	mg/kg	0.01
Barium	**542**	96	125	96	mg/kg	1	Indeno(123-cd)pyrene	**45**	0.70	0.97	0.86	mg/kg	0.03
Beryllium	**1.7**	0.6	0.7	<0.5	mg/kg	0.5	Naphthalene	**2.3**	0.49	<0.30	1.76	mg/kg	0.03
Boron (water soluble)	**107**	<1.0	<1.0	<1.0	mg/kg	1	Phenanthrene	**100**	3	3.87	4.69	mg/kg	0.03
Cadmium	**85**	<0.5	0.5	<0.5	mg/kg	0.5	Pyrene	**100**	2.93	4.03	3.97	mg/kg	0.07
Copper	**200**	20	26	18	mg/kg	1	Total PAH-16MS	**100**	18.5	25.8	27.8	mg/kg	0.01
Chromium	**684**	15	18	14	mg/kg	1	Ali >C5-C6	**42**	<0.01	<0.01	<0.01	mg/kg	0.01
Chromium (hexavalent)	**6**	<1	<1	<1	mg/kg	1	Ali >C6-C8	**100**	<0.01	<0.01	<0.01	mg/kg	0.01
Lead	**310**	37	50	36	mg/kg	1	Ali >C8-C10	**27**	<1	<1	<1	mg/kg	1
Mercury	**1.2**	<0.17	<0.17	<0.17	mg/kg	0.17	Ali >C10-C12	**130**	<1	<1	<1	mg/kg	1
Molybdenum	**670**	<1	<1	<1	mg/kg	1	Ali >C12-C16	**500**	<1	2	2	mg/kg	1
Nickel	**110**	14	16	12	mg/kg	1	Ali >C16-C21	**500**	3	4	4	mg/kg	1
Selenium	**430**	<1	<1	<1	mg/kg	1	Ali >C21-C35	**500**	76	118	80	mg/kg	1
Vanadium	**1,200**	16	21	16	mg/kg	1	Ali >C35-C44	**500**	73	155	72	mg/kg	1
Zinc	**300**	51	66	50	mg/kg	5	Aro >C5-C7	**370**	<0.01	<0.01	<0.01	mg/kg	0.01
Asbestos in soil	**NAD**	NAD	NAD	NAD			Aro >C7-C8	**500**	<0.01	<0.01	<0.01	mg/kg	0.01
Asbestos Matrix (visual)	**NAD**	NAD	NAD	NAD			Aro >C8-C10	**47**	<1	1	<1	mg/kg	1
Asbestos Matrix (microscope)	**NAD**	NAD	NAD	NAD			Aro >C10-C12	**250**	2	1	2	mg/kg	1
Acenaphthene	**100**	0.40	0.53	0.63	mg/kg	0.01	Aro >C12-C16	**500**	10	8	7	mg/kg	1
Acenaphthylene	**100**	<0.10	<0.10	<0.10	mg/kg	0.01	Aro >C16-C21	**500**	55	39	36	mg/kg	1
Anthracene	**100**	0.76	0.88	1.09	mg/kg	0.02	Aro >C21-C35	**500**	147	146	138	mg/kg	1
Benzo(a)anthracene	**11**	1.59	2.36	2.22	mg/kg	0.04	Aro >C35-C44	**500**	41	91	39	mg/kg	1
Benzo(a)pyrene	**3.2**	1.14	1.76	1.67	mg/kg	0.04	BTEX - Benzene	**0.38**	<0.01	<0.01	<0.01	mg/kg	0.01
Benzo(b)fluoranthene	**3.9**	1.53	2.33	2.03	mg/kg	0.05	BTEX - Toluene	**6**	<0.01	<0.01	<0.01	mg/kg	0.01
Benzo(ghi)perylene	**100**	0.61	0.84	0.75	mg/kg	0.05	BTEX - Ethyl Benzene	**6**	<0.01	<0.01	<0.01	mg/kg	0.01
Benzo(k)fluoranthene	**100**	<0.70	0.98	1.01	mg/kg	0.07	BTEX - m & p Xylene	**6**	<0.01	<0.01	<0.01	mg/kg	0.01
							BTEX - o Xylene	6	<0.01	<0.01	<0.01	mg/kg	0.01

3.7 MMP - Materials Movement.

Before starting work, the EA were asked whether they objected to the use of the Definition of Waste Code of Practice (DoWCoP) to manage material movements at the site. The EA confirmed their approval to the use of DoWCoP and a copy of their confirmation is included in Appendix J.

A Materials Management Plan was developed and submitted to CL:AIRE by a Qualified Person (QP).

There were large basement voids across the majority of the site at circa 5m BGL, which were formed through a combination of masonry arch structures and steel bridging beams.

The basements were either completely voided or partially filled with construction material.

Sections of the masonry walls were removed to facilitate installation of the basement car park and foundations to the new blocks. Other sections were maintained as they form buttress support to the boundary retaining walls on site.

The ground slabs to the old basements were broken out and the underlying ground was turned over to a depth of approximately 1m to facilitate the installation of piled foundations. In line with the Materials Management Plan referenced in Section 2.2, existing made ground was re-used as engineered fill at the site. The MMP estimated approximately 5000m3 of void space in the old basements and a volume of 24,800m3 engineered fill to be placed beneath the proposed development site. This estimate was based on a site wide turnover to 1m below the underside of the basement slabs.

Around 70% of the site area required full turnover and the actual volume of placed fill was around 17,000m3.

The material movement areas and fill volumes, were generally in accordance with the Materials Management Plan and are indicated schematically in Figure 8.

Earthworks drawings confirming the base of cut, final levels and area where the materials were deposited are included in Appendix J.

Figure 8 – MMP Schematic Fill Areas



3.8 Developer's Tasks

The following remediation tasks have not yet been undertaken and should be carried out by the developer before planning conditions relating to contaminated land are discharged.

- Installation of an Engineered Cover System within soft landscaping/ garden areas.
- Installation of a suitable vapour membrane within future buildings and structures.
- Installation of barrier pipes for water supply, subject to confirmation by the local water provider.

4 Conclusions

The remediation activities carried out by Chartrange Ltd at Rochdale Road have been carried out in general accordance with the remediation strategy referenced in Section 2.2.

All pollutant linkages associated with those activities have been broken or effectively controlled.

When the developer's remediation tasks have been completed the site will be suitable for its proposed use. This verification report should be updated when the developer's remediation tasks have been completed and submitted to Manchester Council for approval.

Appendix A – Design Team's Proposed Layout Drawings



0m 5 10 15 20 25

Key

Mulbury Planning Application Boundary

HARDWORKS

Natural Stone Paving Mix 1
To public realm & shared community space
Type: Portuguese granite
Colour: TBC
Finish: TBC
Supplier: Hardscape or similar approved
Note: allow for galvanised 3x150mm excell edge

Clay Paving Mix 2
To match adjacent MCR site (H3 material) pedestrian areas throughout the site.
Type: Clay Paving
Colour: Various to complement architectural material palette
Finish: TBC
Supplier: Hardscape or similar approved
Note: allow for galvanised 3x150mm excell edge

Clay Paving Mix 3
To private garden space
Type: Neland Clay Paving
Colour: TBC
Finish: TBC
Supplier: Hardscape or similar approved
Note: allow for galvanised 3x150mm excell edge

Green gap concrete paving
To Residential spaces
Type: Concrete
Colour: TBC
Finish: TBC
Supplier: Hardscape or similar approved
Note: allow for galvanised 3x150mm excell edge

Granite Planks
To Residential spaces
Type: Portuguese granite
Colour: TBC
Finish: TBC
Supplier: Hardscape or similar approved

Natural Stone Paving
Type: Yorkstone
To match approved MCR site Gould street highway paving
Size, colour finish, to MCC standard detail
Note: allow for 125x255mm kerb edge

FURNITURE & STRUCTURES

Seating Edge
To Courtyards
Timber top corten frame

Picnic Table
Timber top picnic table with powdercoated galvanised frame

Tiered Seating Feature
Timber seating with integrated tree, details tbc

1.8m Rimini Galvanised Steel Fence
details tbc

Retaining Structure
Existing To Gould street & 87 Rochdale Road

1.1m Rimini Galvanised Steel Balustrade
To private spaces, details tbc

Timber play feature
To community shared spaces, details tbc

Proposed 1.1m wall with 500mm railing
Brickwork finish to match building facade

1.5m Pillar Wall
To courtyard edge
details tbc

Chess Board - Play
To courtyard edge

Table tennis
To courtyard edge

Planting Screen
2.5m high Galvanised steel planting screen to courtyard
finish: tbc

Cycle Stands
10no. Sheffield cycle stands to external spaces

Bin Store
Controlled accessed 3 No. 1100L & 1no.240L bins to town house & duplex's

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NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

NOTE:
General Arrangement drawing to be read in conjunction with drawings:
2624-PLA-XX-XX-DR-L-1001
2624-PLA-XX-XX-DR-L-1002
2624-PLA-XX-XX-DR-L-2000
2624-PLA-XX-XX-DR-L-3000

SOFTWORKS

Trees
A combination of single & multi-stem trees, Refer to drawing 2426-PLA-XX-XX-DR-L-2000 for specification.

Clipped Instant Hedge
To private garden boundaries
Size: 800mmW x 1200mmH approx.
Refer to drawing 2426-PLA-XX-XX-DR-L-2000 for specification.

Ornamental Shrub and Herbaceous Planting
Biodiversity rich planting,Refer to drawing 2426-PLA-XX-XX-DR-L-2000 for specification.

Marginal Ornamental Planting
To swales / rain gardens Refer to drawing 2426-PLA-XX-XX-DR-L-2000 for specification.

Lawn
Medallion turf
Supplier: Rolawn or similar approved

Planting Bed
450mm high timber planter. planting to residential community choice

Revision	Date	Description	Drawn	Apprvd.
S1-P06	06-12-21	Bin storage and boundary update	AS	KR
S1-P05	11-11-21	Updated boundary	AS	KR
S1-P04	01-09-21	Planning Issue	AS	KR
S1-P03	02-08-21	Draft Planning	AS	KR
S1-P02	20-07-21	For information	AS	KR
S1-P01	27-05-21	For coordination	AS	KR

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T: 0207 253 5678
STANDISH
Standish Gatehouse, Stonehouse, Gloucestershire, GL10 3BZ
T: 0145 360 7080

Client: Portwood Development Ltd

Project: 87 Rochdale Road

Drg Title: General Arrangement

Created on	Created by	Approved by
02.08.21	AS	KR

Scale	Size	Workstage
1:250	A1	RIBA Stage 2

Drg No. 2624-PLA-XX-XX-DR-L-0002 | Suitability S1 | Revision P06

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Notes:

PLAN KEY:

01 Car park (29 parking spcaes)
02 Life safety room
03 Switch room
04 Tank room
05 Duplex coach house garage
06 Duplex coach houses (ground floor footprint above)
07 Vehicular entrance to basement
08 Automated roller shutter
09 Ramp down to basement

Project Name:
87 Rochdale Road

Title:
Basement Level
General Arrangement Plan

Scale:
1:125 @ A1

Drawn: JBe
Checked: MH
Status: Planning
Project: 136-JMA-MP-LG-P-A-022199
Drawing No:
Rev: -

Details:
13/08/21 Issued for Planning

Jon Matthews Architects

4th Floor Centurion House, 129 Deansgate, Manchester, M3 3WR 0161 974 3690

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Appendix B – Planning Conditions

MANCHESTER CITY COUNCIL

Town & Country Planning Act 1990 (as amended)

Planning Permission

Applicant	Agent (if used)
Portwood Developments Limited Great Oak Farm Mag Lane Lymm WA13 0TF	Matthew Hard WSP 8 First Street Manchester M15 4RP

Part 1 – Particulars of the application/development

Proposal: Erection of a part 11, part 13 storey building to form residential apartments (Use Class C3a) together with the erection of two blocks of 3 storey duplexes (Use Class C3a) to form 237 residential homes in total with associated commercial floor (Use Class E) (132 sqm), basement car parking, landscaping and public realm, and associated engineering and infrastructure works following demolition of existing buildings and structures

Location: 87 Rochdale Road, Manchester , M4 4JD

Date of application: 20 September 2021

Application number: 131708/FO/2021

Part 2 – Particulars of decision

Manchester City Council gives notice that the development referred to in Part 1 has been **Approved** in accordance with the application and plans submitted subject to the condition(s) listed below (if any).

Article 35 Declaration

Officers have worked with the applicant in a positive and proactive manner based on seeking solutions to problems arising in relation to dealing with the planning application. Pre application advice has been sought in respect of this matter where early discussions took place regarding the siting/layout, scale, design and appearance of the development and impact on the listed building. Further work and discussion shave taken place with the applicant through the course of the application. The proposal is considered to be acceptable and therefore determined within a timely manner.

Condition(s) attached to this decision

1) The development must be begun not later than the expiration of three years beginning with the date of this permission.

Reason - Required to be imposed pursuant to Section 91 of the Town and Country Planning Act 1990.

2) The development hereby approved shall be carried out in accordance with the following drawings and documents:

Drawings

136-JMA-B3-00-P-A-022300, 136-JMA-B3-N-E-A-042230, 136-JMA-B4-00-P-A-022240, 136-JMA-MP-01-P-A-022201, 136-JMA-MP-07-P-A-022207, 136-JMA-MP-09-P-A-022209, 136-JMA-MP-10-P-A-022210, 136-JMA-MP-11-P-A-022211, 136-JMA-MP-12-P-A-022212, 136-JMA-MP-13-P-A-022213 and 136-JMA-MP-LG-P-A-022199 stamped as received by the City Council, as Local Planning Authority 20 September 2021.

136-JMA-MP-XX-P-A-001005 Rev A and 136-JMA-MP-XX-P-A-022200 Rev A stamped as received by the City Council, as Local Planning Authority 6 November 2021

136-JMA-B1-00-E-A-104200 Rev B, 136-JMA-B2-00-E-A-104202 Rev B, 136-JMA-B2-10-E-A-104201 Rev C, 136-JMA-MP-AA-S-A-052200 Rev A, 136-JMA-MP-E-E-A-042201 Rev B, 136-JMA-MP-N-E-A-042202 Rev B, 136-JMA-MP-N-E-A-042205 Rev B, 136-JMA-MP-S-E-A-042200 Rev C, 136-JMA-MP-S-E-A-042204 Rev B and 136-JMA-MP-W-E-A-042203 Rev B stamped as received by the City Council, as Local Planning Authority 3 December 2021

2624-PLA-XX-XX-DR-L-0002 REV P06, 2624-PLA-XX-XX-DR-L-1001 REV P03, 2624-PLA-XX-XX-DR-L-1002 REV P04, 2624-PLA-XX-XX-DR-L-2000 REV P04 and 2624-PLA-XX-XX-DR-L-3000 REV P06 stamped as received by the City Council, as Local Planning Authority 6 December 2021

Supporting Information

Affordable Housing Assessment (WSP), Air Quality Impact Assessment (Miller Goodall); Archaeology and Heritage Desk Based Assessment (Salford University); Architectural Drawings including architectural drawings register (Jon Matthews Architects); Bat Survey (E3P); Blue and Green Infrastructure Statement (Planit-IE); Broadband Connectivity Assessment (Gtech Surveys), Construction Management Plan (Portwood Developments), Crime Impact Assessment (GMP); Daylight and Sunlight Assessment (Grey Scanlan Hill); Design and Access Statement including residential standards (Jon Matthews Architects with Planit_IE); Energy Strategy (Ridge) - in lieu of validation checklist requirement 'environmental standards'; Fire Statement (Design Fire Consultants); Flood Risk Assessment and Drainage Strategy Report (Ridge); Heritage Statement (University of Salford), Lighting Layout (Ridge), Local Labour Agreement (WSP); Management Strategy (Portwood Developments Limited); Noise Assessment (DBX Acoustics); Phase 1 Geo-technical Assessment (E3P); Planning Statement (WSP); Statement of Community Involvement (WSP); Tall Buildings Assessment (WSP); Townscape and Visual Impact Assessment (Planit-IE); Transport Assessment and Travel Plan (SK Transport), TV, Reception Assessment (Gtech Surveys); Viability Appraisal (Savills) and Wind Assessment (Architectural Aero) stamped as received by the City Council, as Local Planning Authority 20 September 2021.

- Fire Safety Statement dated 10 November 2021 (Design Fire Consultants)
- Fire Safety Statement dated 2 December 2021(Design Fire Consultants)

o Email correspondence from Greater Manchester Fire and Rescue dated 11 December 2021

Reason - To ensure that the development is carried out in accordance with the approved plans. Pursuant to policies SP1 and DM1 of the Core Strategy.

3) Prior to the commencement of the development, details of the method for piling, or any other foundation design using penetrative methods, for the development shall be submitted for approval in writing by the City Council, as Local Planning Authority. The approved details shall then be implemented during the construction of the development.

Reason - Piling or any other foundation using penetrative methods can result in risks to potable supplies (pollution/turbidity, risk of mobilising contamination) drilling through different aquifers and creating preferential pathways. It is therefore necessary to demonstrate that piling will not result in contamination of groundwater. In addition, pilling can affect the adjacent railway network which also requires consideration pursuant to policies SP1, EN17 and EN18 of the Manchester Core Strategy (2012).

4) No demolition works or vegetation clearance shall take place during the optimum period for bird nesting (March - September inclusive) unless nesting birds have been shown to be absent, or, a method statement for the demolition including for the protection of any nesting birds is agreed in writing by the City Council, Local Planning Authority. Any method statement shall then be implemented for the duration of the demolition works.

Reason - In order to protect wildlife from works that may impact on their habitats pursuant to policy EN15 of the Manchester Core Strategy (2012).

5) Notwithstanding the Flood Risk Assessment and Drainage Strategy Report (Ridge) stamped as received by the City Council, as Local Planning Authority, on the 20 September 2021, (a) the development shall not commence (except for clearance, demolition and remediation) until a scheme for the drainage of surface water from that phase of the new development shall be submitted for approval in writing by the City Council as the Local Planning Authority. This shall include:

- Details of surface water attenuation that offers a reduction in surface water runoff rate in line with the Manchester Trafford and Salford Strategic Flood Risk Assessment, i.e. at least a 50% reduction in runoff rate compared to the existing rates, as the site is located within Conurbation Core Critical Drainage Area. Where sites have existing drainage, efforts should be made to model the existing network to calculate the existing flow rates - proposed discharge rates should be then be based on these existing flow rates (including at least a 50% betterment).

- Runoff volume in the 1 in 100 year, 6 hours rainfall shall be constrained to a value as close as is reasonable practicable to the greenfield runoff volume for the same event, but never to exceed the runoff volume from the development site prior to redevelopment;

- Evidence that the drainage system has been designed (unless an area is designated to hold and/or convey water as part of the design) so that flooding does not occur during a 1 in 100 year rainfall event with allowance for 40% climate change in any part of a building;

- Assessment of overland flow routes for extreme events that is diverted away from buildings (including basements). Overland flow routes need to be designed to convey the flood water in a safe manner in the event of a blockage or exceedance of the proposed drainage system capacity including inlet structures. A layout with overland flow routes needs to be presented with appreciation of these overland flow routes with regards to the properties on site and adjacent properties off site.

- Where surface water is connected to the public sewer, agreement in principle from United Utilities is required that there is adequate spare capacity in the existing system taking future development requirements into account. An email of acceptance of proposed flows and/or new connection will suffice. Confirmation that connection via the 225mm diameter public combined sewer is suitable.

- Hydraulic calculation of the proposed drainage system;

- Construction details of flow control and SuDS elements.

(b) The development shall then be constructed in accordance with the approved details, within an agreed timescale.

Reason - To promote sustainable development, secure proper drainage and to manage the risk of flooding and pollution pursuant to policies SP1, EN14 and DM1 of the Manchester Core Strategy (2012).

6) No development works shall take place until the applicant or their agents or their successors in title has secured the implementation of a programme of archaeological works in accordance with a Written Scheme of Investigation (WSI) which has been submitted to and approved in writing by the local planning authority. The WSI shall cover the following:

1. A phased programme and methodology of investigation and recording to include:

- a historic building investigation (Level 2) of any historic buildings or structures that are to be removed;

- archaeological evaluation trenching;

- pending the results of the above, a targeted open-area excavation.

2. A programme for post-investigation assessment to include:

- production of a final report on the results of the investigations and their significance.

3. Deposition of the final report with the Greater Manchester Historic Environment Record.

4. Dissemination of the results of the archaeological investigations commensurate with their significance, including the installation of a heritage interpretation panel.

5. Provision for archive deposition of the report and records of the site investigation.

6. Nomination of a competent person or persons/organisation to undertake the works set out within the approved WSI.

Reason- To record and advance understanding of heritage assets impacted on by the development and to make information about the heritage interest publicly accessible pursuant to policy EN3 of the Manchester Core Strategy (2012), saved policy DC20 of the Unitary Development Plan for the City of Manchester (1995) and NPPF.

7) a) Notwithstanding the Phase 1, Geo-Environmental Site Assessment, Ep3, Reference: 12-922-R1, dated December 2018 and the preliminary risk assessment, prior to the commencement of the development the following information should be submitted for approval in writing by the City Council, as Local Planning Authority:

- Intrusive investigation assessment;
- Updated final risk assessment;
- Remediation Strategy.

In the event of the Preliminary Risk Assessment identifying risks which in the written opinion of the Local Planning Authority require further investigation, the development shall not commence until a scheme for the investigation of the site and the identification of remediation measures (the Site Investigation Proposal) has been submitted to and approved in writing by the City Council as local planning authority.

The measures for investigating the site identified in the Site Investigation Proposal shall be carried out, before the development commences and a report prepared outlining what measures, if any, are required to remediate the land (the Site Investigation Report and/or Remediation Strategy) which shall be submitted to and approved in writing by the City Council as local planning authority.

b) When the development commences, the development shall be carried out in accordance with the previously agreed Remediation Strategy and a Completion/Verification Report shall be submitted to and approved in writing by the City Council as local planning authority prior to the first occupation of the residential element of the scheme.

In the event that ground contamination, groundwater contamination and/or ground gas, not previously identified, are found to be present on the site at any time before the development is occupied, then development shall cease and/or the development shall not be occupied until, a report outlining what measures, if any, are required to remediate the land (the Revised Remediation Strategy) is submitted to and approved in writing by the City Council as local planning authority and the development shall be carried out in accordance with the Revised Remediation Strategy, which shall take precedence over any Remediation Strategy or earlier Revised Remediation Strategy.

Reason - To ensure that the presence of or the potential for any contaminated land and/or groundwater is detected and appropriate remedial action is taken in the interests of public safety, pursuant to policies DM1 and EN18 of the Core Strategy.

8)
8) The development shall not commence until a detailed construction management plan outlining working practices during construction have be submitted for approval in writing by the Local Planning Authority, which for the avoidance of doubt should include;

- Display of an emergency contact number;
- Details of Wheel Washing;
- Dust suppression measures;
- Compound locations where relevant;

Appendix C – The Appointment

GeoEnvironmental

GECL-334526-F01
05 June 2023

Mr J Kennedy
Chartrange Ltd
Company Number: 01935855
Wharf Street,
Dukinfield,
Cheshire, SK16 4NJ

Dear James

Rochdale Road Manchester

Further to your recent request, please find outlined below our proposals for providing consultancy services in connection with the above site. The extent of the site is shown indicatively in Figure 1.



Figure 1: Indicative extent of site, boundary shown dotted red.

The "**Services** "will comprise: -

1. ~~**Remediation & Validation**~~
   - ~~a. Review existing reports and information~~
   - ~~b. Provide a request for information to the client team~~
   - ~~c. Provide a verification plan~~
   - ~~d. Materials Management Plan & QP Sign-off~~
   - ~~e. Asbestos Management Plan~~
   - ~~f. Site Supervision (per visit)~~
   - g. Validation Report – Remediation Activities
   - h. Validation Report – Earthworks Activities
2. ~~**Consultancy**~~
   - ~~a. Attend meetings at Client's Invitation~~
3. ~~**Legal**~~
   - ~~a. Collateral Warranty (standard CIC)~~

The work will be overseen by an NQMS Suitably Qualified Person. The National Quality Mark Scheme (NQMS) for Land Contamination Management has been developed by the Land Forum to provide visible identification of documents that have been checked for quality by a Suitably Qualified and experienced Person (SQP). All reports intended for planning submission will carry the NQMS logo. More information on the NQMS Scheme can be found here.

Please note, the scope may include commenting on asbestos in soils as a contaminant where appropriate but excludes commenting on asbestos in buildings, structures, ducts or similar.

Data and Information

Please supply the following necessary / relevant data and information in good time to avoid delay to the programme:

- A copy of any available base mapping, such as the Mastermap or topographic survey (dxf format) for the site.
- Copies of any previous reports or information relevant to the services (e.g. previous investigation reports), including:-
    - Waterman Report - Generic Quantitative Risk Assessment, dated December 2022, reference WIE19453-100-R-2.2.1-GQRA
- The most up to date development layout.
- All available health and safety information relevant to the works. Please note, before any intrusive works are undertaken, we will require a comprehensive and up to date set of public and private utility plans for the site. If these are not available, please advise and we will obtain the publicly available information.

Thank you for providing the following information:

- SEP Geophysical Report 87 Rochdale Road, Manchester, Geophysical Report, ref: G-22_162-1(00), dated 23/09/2022.
- Waterman Report Rochdale Road, Manchester Specification for Earthworks, ref: 23C002-WSL-SPC-S-0006, Dated 7/03/23
- Waterman Report Rochdale Road, Manchester, Remediation Strategy, December 2022, ref: WIE19453-100-R-3-2-1-Rem Strat

To facilitate our review of factual data, we will request a full copy of factual data (field and lab) in AGS4 format. If the data is not available in AGS4 format it will take longer to review and process, in which case we may need to allow more time and additional fee to provide the services - we will advise you if this is the case.

For the purposes of this quotation we have taken the above information to be comprehensive and assumed that the factual data can be provided in AGS4 format. If any further information is required to carry out the services, please supply it in good time to avoid delay to the programme.

Fees and Expenses:

Our fees, expenses and travel costs for the Services shall be as set out in the attached quotation.

Please note the scope of our services does not include any third party work such as fieldwork, surveys, lab testing or in-situ testing.

Fees for items marked SPEC have been removed from the early / feasibility stage of the project and included in the later items to assist with your bid.

Programme:

We will commence SPEC work on receipt of the signed Appointment; however we will only commence fee paying work when you have been appointed on the project. Please provide as much notice as possible of your start date to enable us to plan ahead.

Health and Safety / CDM 2015

We are not appointed as a Designer, Principal Designer or Principal Contractor under CDM 2015.

We have assumed that we will be provided with safe access to working areas for survey and inspection purposes. Please confirm access and security arrangements for the site including liaison with security personnel, site caretakers etc. Any security requirements shall be made known to us prior to commencing on site and at a reasonable time to ensure site staff can comply with the requirements.

Terms of Appointment

Chartrange Ltd is our client for this project. This letter and the attached terms of appointment are our offer to provide the services and form the **Appointment**. Please countersign below and return a copy of this letter to confirm your acceptance of the Appointment. If you instruct us to proceed without countersigning, then you acknowledge that you have accepted the terms of the Appointment.

We hope the above meets your requirements - if you have any queries regarding the content of our proposal, please do not hesitate to contact the undersigned.

Yours sincerely



Richard Meredith
Director
GeoEnvironmental Consulting Ltd

We confirm our acceptance of the Appointment

Signature.....

Date.....
For and on behalf of Chartrange Ltd

Chartrange Ltd appoints GeoEnvironmental Consulting Ltd to provide the Services and GeoEnvironmental Consulting Ltd accepts the appointment in accordance with these terms.

1 GeoEnvironmental Consulting Ltd's Obligations

(i) GeoEnvironmental Consulting Ltd shall provide the Services and exercise reasonable skill and care in the performance of the Services.

(ii) GeoEnvironmental Consulting Ltd shall use reasonable endeavours to perform the Services in accordance with any programme set out in the Proposal Letter.

(iii) GeoEnvironmental Consulting Ltd shall inform Chartrange Ltd if he considers any change or instruction from Chartrange Ltd is outside the scope of the Services and will cause a change to the programme and/or change to the level of fees or expenses.

2 Client's Obligations

(i) Chartrange Ltd shall pay GeoEnvironmental Consulting Ltd for the performance of the Services the fees and expenses set out in the Proposal Letter.

(ii) Chartrange Ltd shall supply GeoEnvironmental Consulting Ltd with all relevant data and information necessary for GeoEnvironmental Consulting Ltd to perform the Services, and all instructions, decisions, consents or approvals in good time to avoid delay to the performance of the Services. Chartrange Ltd acknowledge that any error, failure or delay in providing the same may result in additional cost being incurred by GeoEnvironmental Consulting Ltd.

(iii) Chartrange Ltd shall make an additional payment to GeoEnvironmental Consulting Ltd if GeoEnvironmental Consulting Ltd has to carry out additional work and/or suffers delay or disruption in the performance of the Services for reasons beyond GeoEnvironmental Consulting Ltd's control, including instructions or decisions by or on behalf of Chartrange Ltd. The additional payment will be calculated on the basis of GeoEnvironmental Consulting Ltd's hourly rate (£85 per hour plus VAT) together with all reasonable fees, expenses and/or disbursements. GeoEnvironmental Consulting Ltd shall if requested by Chartrange Ltd and where practicable give an initial estimate of the additional payment likely to be charged and how it is to be calculated, but no failure by GeoEnvironmental Consulting Ltd to provide an initial estimate shall prevent GeoEnvironmental Consulting Ltd being entitled to the additional payment.

3 Payment

Chartrange Ltd shall pay GeoEnvironmental Consulting Ltd in the following manner:

(i) GeoEnvironmental Consulting Ltd shall send an invoice to Chartrange Ltd for each instalment of the fees and other sums payable under this Appointment (the "**Payment Application**"). Each Payment Application shall specify the sum that GeoEnvironmental Consulting Ltd considers will become due on the payment due date under Clause 3(ii) and the basis on which that sum is calculated.

(ii) Payment shall be due on the date GeoEnvironmental Consulting Ltd submits the Payment Application. The final date for payment shall be 28 days from the due date or such shorter period as specified in the Proposal Letter.

(iii) GeoEnvironmental Consulting Ltd's Payment Application under Clause 3(i) shall be the payee's payment notice for the purposes of Section 110A of the Housing Grants, Construction and Regeneration Act 1996 (as amended).

(iv) Not later than 5 days after the due date Chartrange Ltd shall issue a payment notice specifying the sum that he considers to be or have been due at the due date, and the basis on which that sum is calculated (the "**Payment Notice").**

(v) On or before the final date for payment Chartrange Ltd shall pay to GeoEnvironmental Consulting Ltd either the sum stated as due in the Payment Notice ("the Notified Sum"). In the absence of a Payment Notice, the Notified Sum shall be the amount stated in the Payment Application. If Chartrange Ltd has served a Pay Less Notice, then on or before the final date for payment Chartrange Ltd shall pay the sum stated as due in the Pay Less Notice.

(vi) Not later than seven days before the final date for payment Chartrange Ltd may give GeoEnvironmental Consulting Ltd a Notice that it intends to pay less than the Notified Sum (a "Pay Less Notice"). Any Pay Less Notice shall specify the sum that Chartrange Ltd considers to be due on the date the Notice is served and the basis on which that sum is calculated.

(vii) All sums due under this Appointment are exclusive of VAT which shall be paid in addition.

4 Liability and Insurance

(i) Notwithstanding anything to the contrary contained in this Appointment but without prejudice to any of its provisions by which liability is excluded or limited to a lesser amount the total liability of GeoEnvironmental Consulting Ltd under or in connection with this Appointment whether in contract, tort, negligence, breach of statutory duty or otherwise (other than in respect of fraud, personal injury or death) shall not exceed in the aggregate:

- fifty times the fees; or
- £250,000 (two hundred and fifty thousand pounds);

whichever is the lower amount save for claims arising from, or in any way connected, to asbestos, pollution or contamination where the limit shall be £100,000.00 (one hundred thousand pounds).

(ii) Save in respect of fraud, personal injury or death GeoEnvironmental Consulting Ltd's liability in respect of terrorism, and ionising radiations or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof (the

"Excluded Matters") whether in contract, tort, negligence, breach of statutory duty or otherwise is excluded.

If GeoEnvironmental Consulting Ltd's liability in respect of any of the Excluded Matters is excluded, the relevant Excluded Matters are outside the scope of this Appointment and GeoEnvironmental Consulting Ltd shall have no responsibility for advising or providing any Services in connection with the relevant Excluded Matters and shall not have any duty to consider the relevant Excluded Matters.

(iii) Without prejudice to clause 4(i) or 4(ii), GeoEnvironmental Consulting Ltd's liability under or in connection with this Appointment shall not exceed, the amount, if any, recoverable by GeoEnvironmental Consulting Ltd's against the claim or claims in question under the professional indemnity insurance maintained by it. The limitation on GeoEnvironmental Consulting Ltd's liability set out in this clause shall not apply in respect of fraud, death or personal injury.

(iv) No action or proceedings under or in respect of this Appointment shall be commenced against GeoEnvironmental Consulting Ltd after the expiry of six years from the date of this letter or the date that GeoEnvironmental Consulting Ltd first commenced its services (whichever is the earlier) which date shall not replace or override any earlier statutory limitation period.

(v) GeoEnvironmental Consulting Ltd shall maintain public liability insurance in the amount of £5,000,000.00 (five million pounds) and professional indemnity insurance in the amount of £2,000,000.00 (two million pounds) in the aggregate including defence costs (save for claims arising from pollution, contamination and asbestos which shall have an aggregate limit of £100,000 in the annual aggregate) and for the length of time sufficient to cover GeoEnvironmental Consulting Ltd's liabilities under this Appointment provided that in either case such insurance is available on reasonable terms and at reasonable commercial rates. If such insurance is not available on reasonable terms and/or at reasonable commercial rates, then GeoEnvironmental Consulting Ltd shall take out such lower amount of insurance as is available on reasonable terms and/or at reasonable commercial rates.

(vi) In relation to any claim brought by Chartrange Ltd in connection with this Appointment, GeoEnvironmental Consulting Ltd shall not be liable for any loss of profit, loss of use, loss of production or any indirect loss or consequential loss.

(vii) Nothing in this Appointment shall constitute a fitness for purpose obligation on GeoEnvironmental Consulting Ltd, and no statement made or report produced by GeoEnvironmental Consulting Ltd shall in any way be construed as GeoEnvironmental Consulting Ltd confirming or warranting the fitness for purpose of any particular site, land, development, or project. All statements, opinions, advice and other communications made and/or given by GeoEnvironmental Consulting Ltd are subject to the exercise by GeoEnvironmental Consulting Ltd of no higher obligation than the obligation to exercise reasonable skill and care.

5 Copyright, Licences and Confidentiality

(i) The copyright in all drawings and other documents (including material in electronic form) provided by GeoEnvironmental Consulting Ltd to Chartrange Ltd remains vested in GeoEnvironmental Consulting Ltd. Subject to all sums payable under this Appointment being paid in full, Chartrange Ltd shall have a licence to copy and use such material for the purposes for which they were provided and GeoEnvironmental Consulting Ltd shall not be liable for their use by any person for any purpose other than for which they were provided. If Chartrange Ltd is in default of payment of any amount under this Appointment GeoEnvironmental Consulting Ltd may revoke any licence granted by giving seven days' notice.

(ii) Neither party shall disclose to any other person any private or confidential information concerning the business of the other party unless authorised by that party or if disclosed to either party's professional advisors or insurers or as required or permitted by law.

6 Termination

(i) Chartrange Ltd may terminate the appointment of GeoEnvironmental Consulting Ltd in the event of a breach of this Appointment or if GeoEnvironmental Consulting Ltd becomes insolvent by giving two weeks' notice and GeoEnvironmental Consulting Ltd may terminate this Appointment and in the same manner if the same circumstances arise in relation to Chartrange Ltd. In the event of any such termination Chartrange Ltd shall pay GeoEnvironmental Consulting Ltd a fair and reasonable amount on account of fees due under this Appointment commensurate with the services performed to the date of termination and any outstanding expenses.

(ii) If circumstances arise for which GeoEnvironmental Consulting Ltd is not responsible (including non payment of fees and expenses due under this Appointment) and which GeoEnvironmental Consulting Ltd considers make it irresponsible to continue to perform all or any of the Services GeoEnvironmental Consulting Ltd may terminate the appointment by giving two weeks' notice. In such event Chartrange Ltd shall pay GeoEnvironmental Consulting Ltd a fair and reasonable amount on account of the fees due (under the Proposal Letter) and in respect of any Services to which GeoEnvironmental Consulting Ltd is irrevocably committed together with any outstanding expenses.

(iii) Termination of GeoEnvironmental Consulting Ltd's appointment under this Appointment shall not prejudice the accrued rights or claims of either party.

7 Disputes and Differences

(i) Without prejudice to the parties' other rights and remedies, the parties shall attempt in good faith to settle any dispute by mediation.

(ii) Where this Appointment is a construction contract within the meaning of the Housing Grants Construction and Regeneration Act 1996 (as amended) any dispute arising shall be referred to adjudication in accordance with the procedure stated in the Proposal Letter or if none is so stated the CIC Model Adjudication Procedure current at the time of the referral. If either party so requests the adjudicator shall be nominated by the ACE.

8 General

(i) Neither party may assign or transfer any benefit or obligation under this Appointment without the prior written consent of the other party.

(ii) Nothing in this Appointment confers or purports to confer on any third party any benefit or any right pursuant to the Contracts (Rights of Third Parties) Act 1999 or any other applicable law or statute to enforce any term of the Appointment.

(iii) This Appointment shall be governed by and construed in all respects in accordance with the laws of England and Wales.

(iv) In this Appointment a reference to a statute or statutory provision is a reference to it as amended, extended or re-enacted from time to time as at the date the Appointment.

9 Notices

Any notice under this Appointment shall be in writing, shall be sent to the address shown in the Proposal Letter and shall take effect when it has been received by Chartrange Ltd or GeoEnvironmental Consulting Ltd as the case may be. It may be in any form, including electronic, provided that a permanent record exists. Any such notice shall be assumed to have been received within two days of issue.

10 Building Information Modelling

Chartrange Ltd and GeoEnvironmental Consulting Ltd shall comply with their respective obligations set out in any BIM protocol referred to in the Proposal Letter. The parties shall have the benefit of any rights granted to them in the protocol and of any limitation or exclusion of liability contained within it.

11 Entire Agreement

This Appointment represents the entire agreement between Chartrange Ltd and GeoEnvironmental Consulting Ltd and supersedes any previous agreement or discussions relating to the Services the subject of this Appointment.

Appendix D – Well Decommissioning

384650
384700
384750
384800
399200
399150
399100

BH107 well to 2m

WS101 well to 3.4m

BH102 shallow well to 8m deep well to 35.5m

BH106 well to 4m

BH103 well to 10m

WS102 well to 3.0m

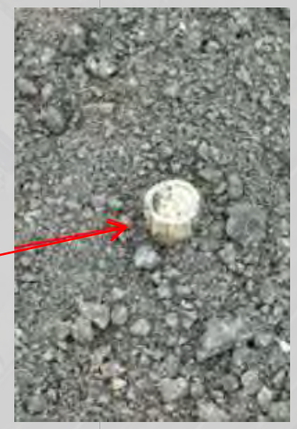
BH104 well to 6m

BH105 well to 7m

WS103 well to 2.0m

BH101 shallow well to 3m and deep well to 36m

WS105 well to 2.0m











Appendix E – Asbestos in Air Monitoring

SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

Email: info@apecuk.com Web: www.apecuk.com

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

UKAS TESTING 2136

Access this document online via your asbestos management portal: www.apecuk.org/data

Site Air Test Certificate Ref:	ST/23/7/24/GD1	Date of Issue:	24/07/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Greg Derrig	Signed by (APEC)		Date	24/07/2023

Air Testing

Purpose of Test

Far-Source Sampling		Near-Source sampling		Leak Test		Background Test	X	Reassurance Test	

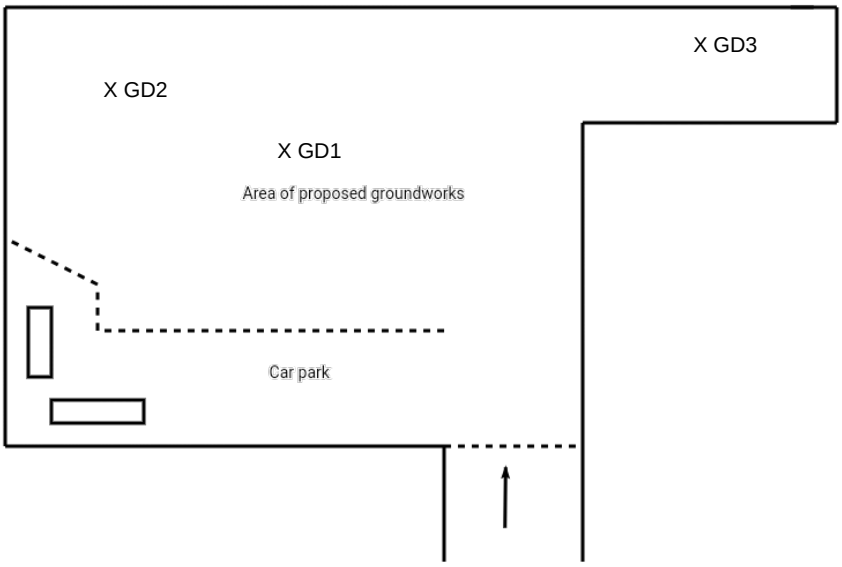
Site Photograph and Additional Site Information



Area Assessed:	External land
Description of reason for test (including the nature and extent of ACMs removed):	Background air monitoring to check ambient air prior to breaking ground

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/7/24/GD1	-

Sample Area Layout Plan



APEC ENVIRONMENTAL

SITE AIR TEST CERTIFICATE

Email: info@apecuk.com Web: www.apecuk.com

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

UKAS TESTING 2136

Access this document online via your asbestos management portal: www.apecuk.org/data

Air Test Summary

Field Blank No.	23/7/A/24/GD4	Fibres	-	Fields	-	Head No.	4D

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/7/A/24/GD1	External land	480	1	200	0.001	<0.010	0.010
23/7/A/24/GD2	External land	480	2	200	0.001	<0.010	0.010
23/7/A/24/GD3	External land	488	1	197	0.001	<0.010	0.010
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

APEC ENVIRONMENTAL

SITE AIR TEST CERTIFICATE

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Photographs

Photograph 1

Photograph 2

Photograph 3

Photograph 4

Sampling pump (sample ref: 23/7/A/24/GD1)



Sampling pump (sample ref: 23/7/A/24/GD2)



Sampling pump (sample ref: 23/7/A/24/GD3)



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Site Air Test Certificate Ref:	ST/23/7/24/GD1	Date of Issue:	24/07/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM53	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW34	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM21	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC26	**No. of bands seen**	5	**Microscope Number**	APM20
Samples counted by (APEC Analyst)	Greg Derrig	**Signed**		**Date Analysed**	24/07/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**1S (Background Airtest)**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Site office					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/7/A/24/GD1	JT2234	4A	N/A	N/A	8.0	10:06	-	--:--	8.0	11:06
23/7/A/24/GD2	JT2235	4B	N/A	N/A	8.0	10:07	-	--:--	8.0	11:07
23/7/A/24/GD3	JT2236	4C	N/A	N/A	8.0	10:09	-	--:--	8.0	11:10
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		**~~Signed by (APEC)~~**		**~~Date:~~**	
~~Trainee~~		**~~Signed by (APEC)~~**		**~~Date:~~**	

SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

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Site Air Test Certificate Ref:	ST/23/7/27/AA3	Date of Issue:	27/07/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Andy Alker	Signed by (APEC)		Date	27/07/2023

Air Testing

Purpose of Test

Far-Source Sampling		Near-Source sampling	X	Leak Test		Background Test		Reassurance Test	

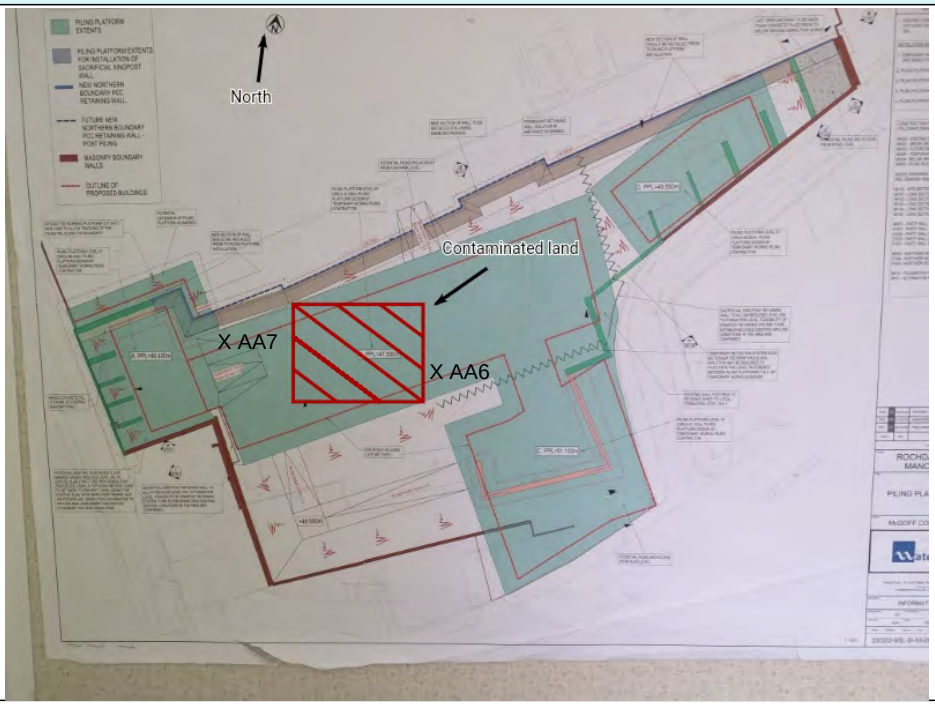
Site Photograph and Additional Site Information



Area Assessed:	Center of construction site where there is contaminated land
Description of reason for test (including the nature and extent of ACMs removed):	near source air monitoring to small area of contaminated land on the construction site is being excavated

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/7/27/AA3	NA

Sample Area Layout Plan



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SITE AIR TEST CERTIFICATE

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Air Test Summary

Field Blank No.	23/7/A/27/AA8	Fibres	-	Fields	-	Head No.	17B

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/7/A/27/AA6	South of the contaminated land area	480	3½	200	0.002	<0.010	0.010
23/7/A/27/AA7	North west of the contaminated land area	480	1	200	0.001	<0.010	0.010
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Overcast; ground wet; slight precipitation; slight south westerly breeze

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/7/27/AA3	Date of Issue:	27/07/2023	Page 3 of 4

Photographs

Contaminated After Excavation



Contaminated After Excavation



Live Construction Site



Photograph 4

Sampling pump (sample ref: 23/7/A/27/AA6)



Sampling pump (sample ref: 23/7/A/27/AA7)



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Site Air Test Certificate Ref:	ST/23/7/27/AA3	Date of Issue:	27/07/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM38	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	27/07/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**5S (Near-source monitoring)**					**Checked by:**	P. Keeling		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite office cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/7/A/27/AA6	AB8L0735	17A	N/A	N/A	8.0	13:25	-	--:--	8.0	14:25
23/7/A/27/AA7	V8-068	17C	N/A	N/A	8.0	13:28	-	--:--	8.0	14:28
-	-	-	-	-	-	-	-	-	-	-
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/7/27/AA2	Date of Issue:	27/07/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)					
Analyst	Andy Alker	**Signed by (APEC)**		**Date**	27/07/2023

Air Testing

Purpose of Test

Far-Source Sampling	X	Near-Source sampling		Leak Test		Background Test		Reassurance Test	

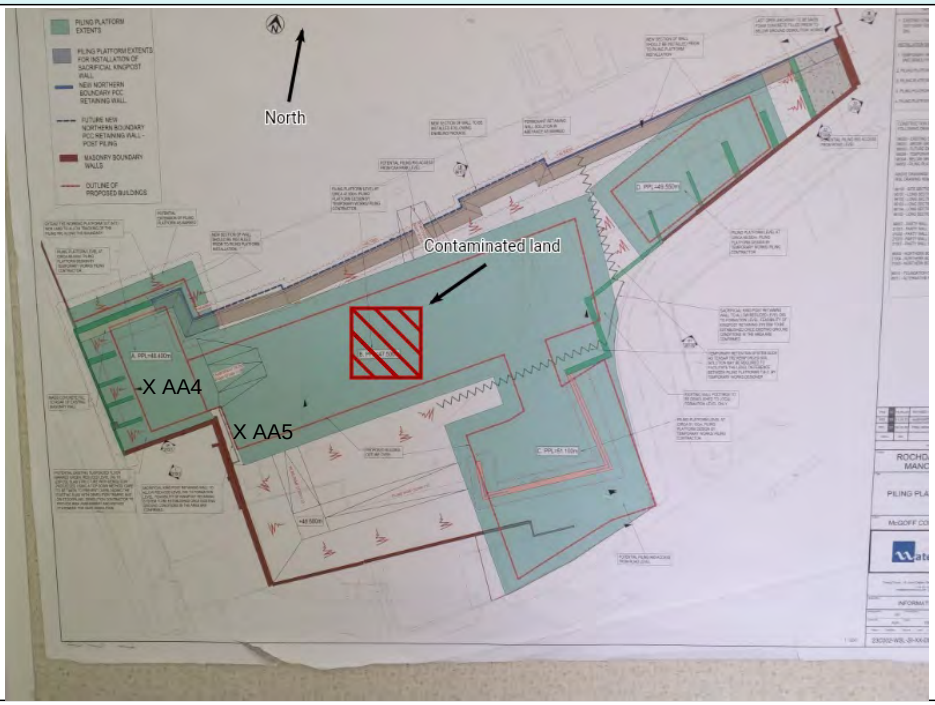
Site Photograph and Additional Site Information



Area Assessed:	Western edge of Construction site towards high-rise apartments
Description of reason for test (including the nature and extent of ACMs removed):	Far source monitoring to small area of contaminated land on the construction site is being excavated

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/7/27/AA2	NA

Sample Area Layout Plan



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SITE AIR TEST CERTIFICATE

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Air Test Summary

Field Blank No.	23/7/A/27/AA9	Fibres	-	Fields	-	Head No.	17G

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/7/A/27/AA4	Western edge of construction site towards high rise apartments	960	2	200	0.001	<0.005	0.005
23/7/A/27/AA5	South West edge of construction site towards high rise apartments	960	2½	200	0.001	<0.005	0.005
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Overcast; ground wet; slight precipitation; slight south westerly breeze

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/7/27/AA2	Date of Issue:	27/07/2023	Page 3 of 4

Photographs

Contaminated Area To be Excavated



Contaminated Area To be Excavated



Contaminated Area To be Excavated



Photograph 4

Sampling pump (sample ref: 23/7/A/27/AA4)



Sampling pump (sample ref: 23/7/A/27/AA5)



SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/7/27/AA2	Date of Issue:	27/07/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM38	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	27/07/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**6S (Far-source monitoring**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite office cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/7/A/27/AA4	AB8L1269	17E	N/A	N/A	8.0	12:40	-	--:--	8.0	14:40
23/7/A/27/AA5	JD03925	17F	N/A	N/A	8.0	12:42	-	--:--	8.0	14:42
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/8/14/GD1	Date of Issue:	14/08/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

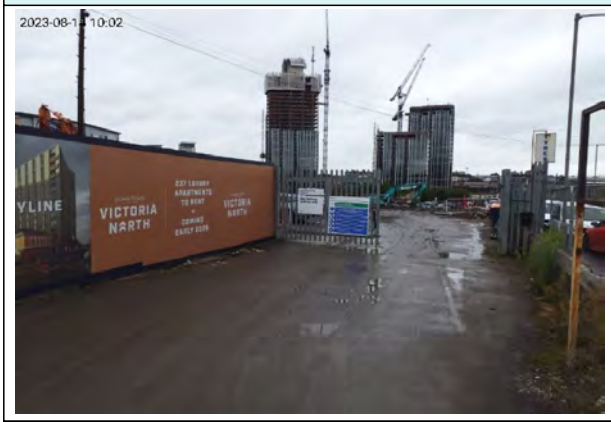
Analyst	Greg Derrig	Signed by (APEC)		Date	14/08/2023

Air Testing

Purpose of Test

Far-Source Sampling		Near-Source sampling	X	Leak Test		Background Test		Reassurance Test	

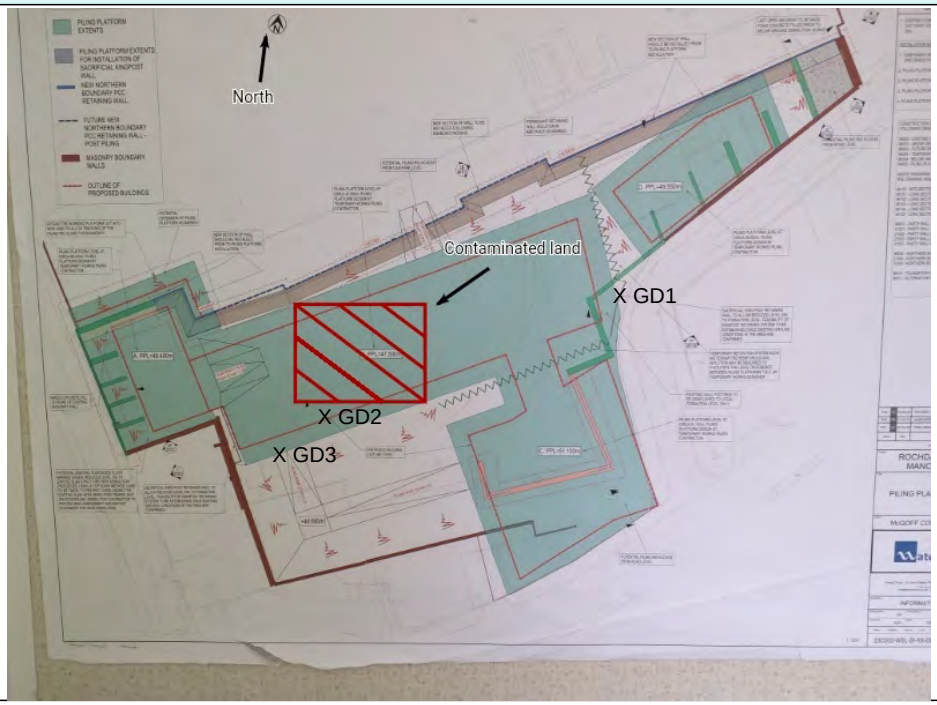
Site Photograph and Additional Site Information



Area Assessed:	External land undergoing excavation/groundwork
Description of reason for test (including the nature and extent of ACMs removed):	near source air monitoring to external land during excavation of below ground structures.

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/8/14/GD1	-

Sample Area Layout Plan



APEC ENVIRONMENTAL

SITE AIR TEST CERTIFICATE

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Air Test Summary

Field Blank No.	23/8/A/14/GD4	Fibres	-	Fields	-	Head No.	4D

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/8/A/14/GD1	Adjacent to Works	592	2	162	0.001	<0.010	0.010
23/8/A/14/GD2	Adjacent to Works	592	2	162	0.001	<0.010	0.010
23/8/A/14/GD3	Adjacent to Works	592	1½	162	0.001	<0.010	0.010
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Overcast; ground wet; light rainfall.

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/8/14/GD1	Date of Issue:	14/08/2023	Page 3 of 4

Photographs

Photograph 1	Photograph 2
Photograph 3	**Photograph 4**
Sampling pump (sample ref: 23/8/A/14/GD1)	**Sampling pump (sample ref: 23/8/A/14/GD2)**
	
Sampling pump (sample ref: 23/8/A/14/GD3)	
	

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/8/14/GD1	Date of Issue:	14/08/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM53	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW34	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM21	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC26	**No. of bands seen**	5	**Microscope Number**	APM20
Samples counted by (APEC Analyst)	Greg Derrig	**Signed**		**Date Analysed**	14/08/2023	**Analysis Location (Site / Lab)**	Lab		
Test Protocol:	**5L (Near-source monitoring)**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	**N/A**	**Counting Location (describe)**	Chester office					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/8/A/14/GD1	JT2234	4A	N/A	N/A	8.0	09:28	-	--:--	8.0	10:42
23/8/A/14/GD2	JT2235	4B	N/A	N/A	8.0	09:31	-	--:--	8.0	10:45
23/8/A/14/GD3	JT2236	4C	N/A	N/A	8.0	09:32	-	--:--	8.0	10:46
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		**~~Signed by (APEC)~~**		**~~Date:~~**	
~~Trainee~~		**~~Signed by (APEC)~~**		**~~Date:~~**	

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Greg Derrig	Signed by (APEC)		Date	23/08/2023

Air Testing

Purpose of Test

Far-Source Sampling		Near-Source sampling	X	Leak Test		Background Test		Reassurance Test	

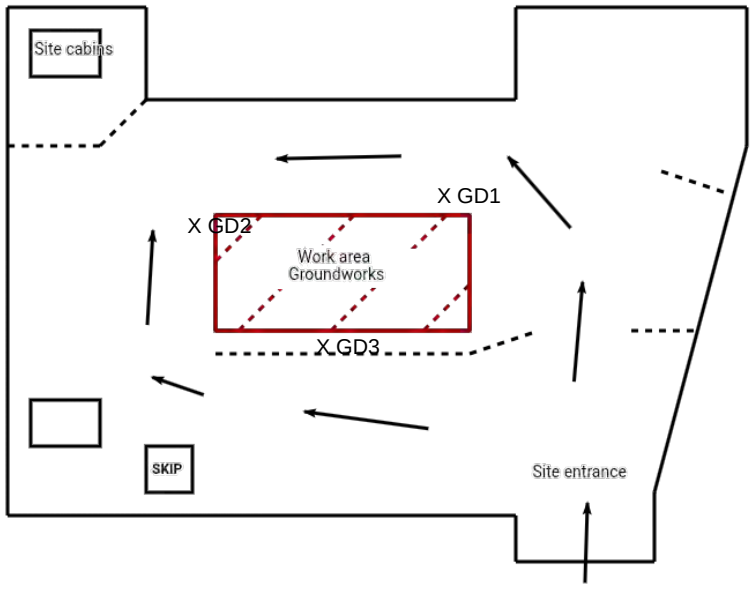
Site Photograph and Additional Site Information



Area Assessed:	External land undergoing excavation/groundwork
Description of reason for test (including the nature and extent of ACMs removed):	near source air monitoring to external land during excavation of below ground structures.

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/8/23/GD1	-

Sample Area Layout Plan



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Air Test Summary

Field Blank No.	23/8/A/23/GD4	Fibres	-	Fields	-	Head No.	4D

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/8/A/23/GD1	Adjacent to Works	480	3	200	0.002	<0.010	0.010
23/8/A/23/GD2	Adjacent to Works	488	1½	197	0.001	<0.010	0.010
23/8/A/23/GD3	Adjacent to Works	488	2½	197	0.001	<0.010	0.010
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Overcast; breezy

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 3 of 4

Photographs

Land Under Excavation



Photograph 2

Photograph 3

Photograph 4

Sampling pump (sample ref: 23/8/A/23/GD1)



Sampling pump (sample ref: 23/8/A/23/GD2)



Sampling pump (sample ref: 23/8/A/23/GD3)



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Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM53	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW34	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM21	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC26	**No. of bands seen**	5	**Microscope Number**	APM20
Samples counted by (APEC Analyst)	Greg Derrig	**Signed**		**Date Analysed**	23/08/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**5S (Near-source monitoring)**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Site cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/8/A/23/GD1	JT2234	4A	N/A	N/A	8.0	09:36	-	--:--	8.0	10:36
23/8/A/23/GD2	JT2235	4B	N/A	N/A	8.0	09:37	-	--:--	8.0	10:38
23/8/A/23/GD3	JT2236	4C	N/A	N/A	8.0	09:39	-	--:--	8.0	10:40
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		**~~Signed by (APEC)~~**		**~~Date:~~**	
~~Trainee~~		**~~Signed by (APEC)~~**		**~~Date:~~**	

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Site Air Test Certificate Ref:	ST/23/9/1/AA1	Date of Issue:	01/09/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Andy Alker	Signed by (APEC)		Date	01/09/2023

Air Testing

Purpose of Test

Far-Source Sampling	X	Near-Source sampling		Leak Test		Background Test		Reassurance Test	

Site Photograph and Additional Site Information



Area Assessed:	Site perimeter
Description of reason for test (including the nature and extent of ACMs removed):	Far source airtest during ongoing ground works on the Rochdale Road site

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/9/1/AA1	NA

Sample Area Layout Plan



APEC ENVIRONMENTAL

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Site Air Test Certificate Ref:	ST/23/9/1/AA1	Date of Issue:	01/09/2023	Page 2 of 4

Air Test Summary

Field Blank No.	23/9/A/1/AA5	Fibres	-	Fields	-	Head No.	17E

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/9/A/1/AA1	Site perimeter	960	1	200	0	<0.005	0.005
23/9/A/1/AA2	Site perimeter	960	1½	200	0	<0.005	0.005
23/9/A/1/AA3	Site perimeter	960	1	200	0	<0.005	0.005
23/9/A/1/AA4	Site perimeter	960	1	200	0	<0.005	0.005
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Ground slightly wet; dry day; no breeze;

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/9/1/AA1	Date of Issue:	01/09/2023	Page 3 of 4

Photographs

Work Area



Work Area



Work Area



Work Area



Sampling pump (sample ref: 23/9/A/1/AA1)



Sampling pump (sample ref: 23/9/A/1/AA2)



Sampling pump (sample ref: 23/9/A/1/AA3)



Sampling pump (sample ref: 23/9/A/1/AA4)



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Site Air Test Certificate Ref:	ST/23/9/1/AA1	Date of Issue:	01/09/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

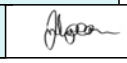
Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results in the Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02
5. Analysis has been undertaken in accordance with methods described in HSG248, The Analysts guide. The reported results are based on a count of all respirable fibres sampled.

APEC Analytical Equipment

Flow Meter	FM48	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	01/09/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**6S (Far-source monitoring**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite welfare cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/9/A/1/AA1	JT2238	17A	N/A	N/A	8.0	09:12	8.0	10:12	8.0	11:12
23/9/A/1/AA2	JT2239	17B	N/A	N/A	8.0	09:14	8.0	10:14	8.0	11:14
23/9/A/1/AA3	JT2240	17C	N/A	N/A	8.0	09:17	8.0	10:17	8.0	11:17
23/9/A/1/AA4	JT2241	17D	N/A	N/A	8.0	09:19	8.0	10:19	8.0	11:19
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/9/5/AA1	Date of Issue:	05/09/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Andy Alker	Signed by (APEC)		Date	05/09/2023

Air Testing

Purpose of Test

Far-Source Sampling	X	Near-Source sampling		Leak Test		Background Test		Reassurance Test	

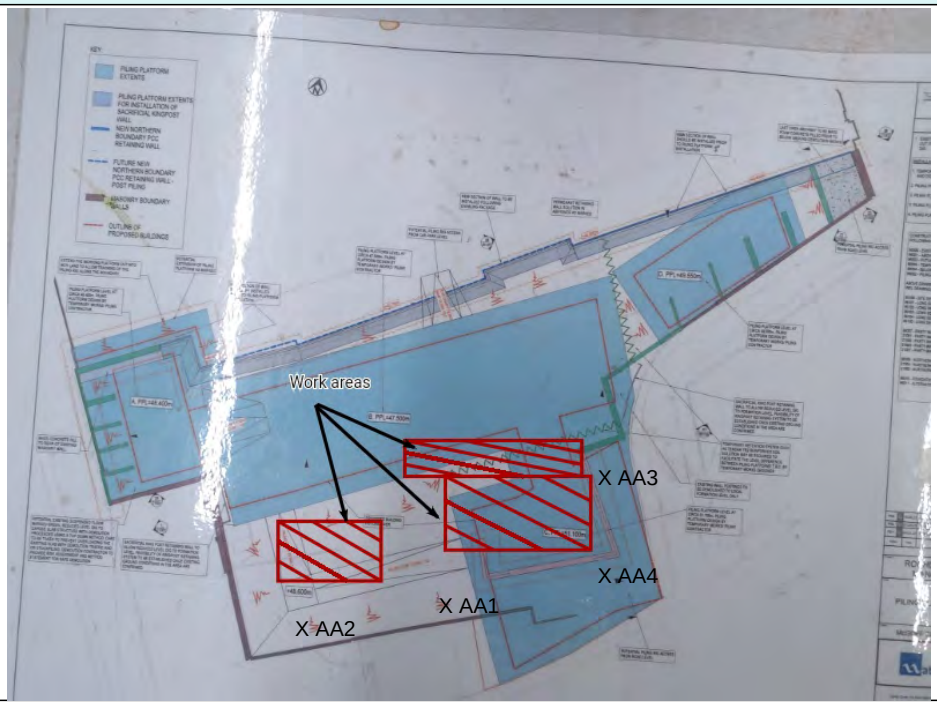
Site Photograph and Additional Site Information



Area Assessed:	Site perimeter
Description of reason for test (including the nature and extent of ACMs removed):	Far source airtest during ongoing ground works on the Rochdale Road site

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/9/5/AA1	NA

Sample Area Layout Plan



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SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/9/5/AA1	Date of Issue:	05/09/2023	Page 2 of 4

Air Test Summary

Field Blank No.	23/9/A/5/AA5	Fibres	-	Fields	-	Head No.	17E

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/9/A/5/AA1	Site perimeter	960	2	200	0.001	<0.005	0.005
23/9/A/5/AA2	Site perimeter	960	1	200	0	<0.005	0.005
23/9/A/5/AA3	Site perimeter	960	1½	200	0	<0.005	0.005
23/9/A/5/AA4	Site perimeter	960	2	200	0.001	<0.005	0.005
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Ground slightly wet; dry sunny day; no breeze;

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/9/5/AA1	Date of Issue:	05/09/2023	Page 3 of 4

Photographs

Photograph 1



Photograph 2



Photograph 3



Photograph 4

Sampling pump (sample ref: 23/9/A/5/AA1)



Sampling pump (sample ref: 23/9/A/5/AA2)



Sampling pump (sample ref: 23/9/A/5/AA3)



Sampling pump (sample ref: 23/9/A/5/AA4)



SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/9/5/AA1	Date of Issue:	05/09/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

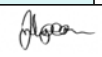
Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results in the Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02
5. Analysis has been undertaken in accordance with methods described in HSG248, The Analysts guide. The reported results are based on a count of all respirable fibres sampled.

APEC Analytical Equipment

Flow Meter	FM48	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	05/09/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**6S (Far-source monitoring**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite welfare cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/9/A/5/AA1	JT2238	17A	N/A	N/A	8.0	09:30	8.0	10:30	8.0	11:30
23/9/A/5/AA2	JT2239	17B	N/A	N/A	8.0	09:32	8.0	10:32	8.0	11:32
23/9/A/5/AA3	JT2240	17C	N/A	N/A	8.0	09:34	8.0	10:34	8.0	11:34
23/9/A/5/AA4	JT2241	17D	N/A	N/A	8.0	09:35	8.0	10:35	8.0	11:35
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

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Site Air Test Certificate Ref:	ST/23/9/12/AA1	Date of Issue:	12/09/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)					
Analyst	Andy Alker	**Signed by (APEC)**		**Date**	12/09/2023

Air Testing

Purpose of Test									
Far-Source Sampling	X	**Near-Source sampling**		**Leak Test**		**Background Test**		**Reassurance Test**	

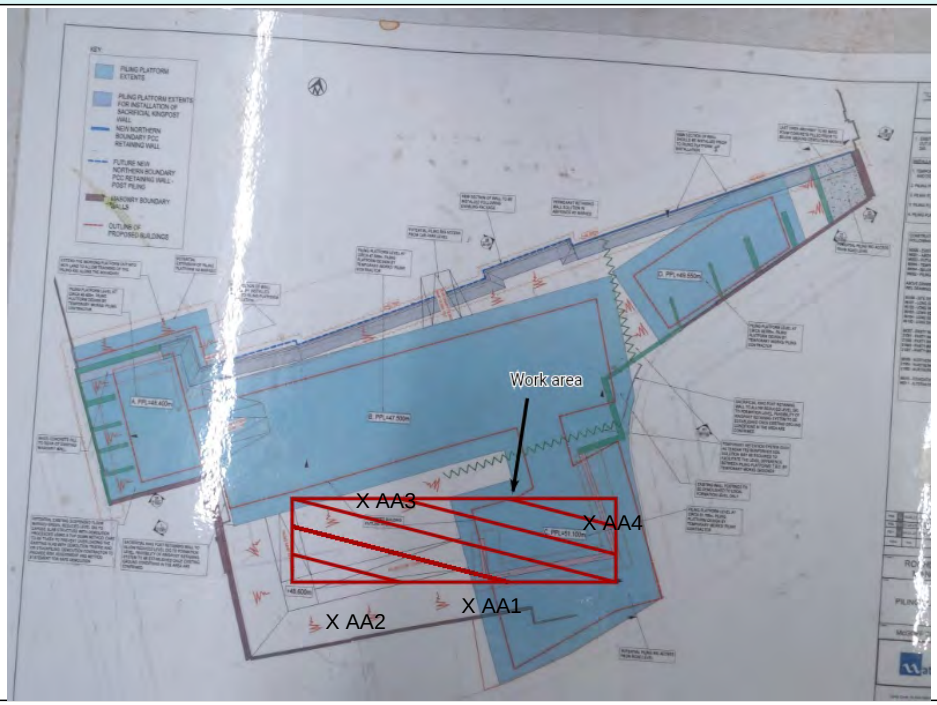
Site Photograph and Additional Site Information



Area Assessed:	Rochdale Road site
Description of reason for test (including the nature and extent of ACMs removed):	Far source airtest during the ongoing ground works to the Rochdale Road site

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/9/12/AA1	NA

Sample Area Layout Plan



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SITE AIR TEST CERTIFICATE

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Air Test Summary

Field Blank No.	23/9/A/12/AA5	Fibres	-	Fields	-	Head No.	17E

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/9/A/12/AA1	Site	960	1	200	0.001	<0.005	0.005
23/9/A/12/AA2	Site	960	1½	200	0.001	<0.005	0.005
23/9/A/12/AA3	Site	960	1	200	0.001	<0.005	0.005
23/9/A/12/AA4	Site	960	2	200	0.001	<0.005	0.005
-	-	-	-	-	-	-	-
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Rain; ground wet; overcast

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/9/12/AA1	Date of Issue:	12/09/2023	Page 3 of 4

Photographs

Ongoing Works



Ongoing Works



Ongoing Works



Ongoing Works



Sampling pump (sample ref: 23/9/A/12/AA1)



Sampling pump (sample ref: 23/9/A/12/AA2)



Sampling pump (sample ref: 23/9/A/12/AA3)



Sampling pump (sample ref: 23/9/A/12/AA4)



SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/9/12/AA1	Date of Issue:	12/09/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

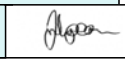
Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results in the Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02
5. Analysis has been undertaken in accordance with methods described in HSG248, The Analysts guide. The reported results are based on a count of all respirable fibres sampled.

APEC Analytical Equipment

Flow Meter	FM48	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	12/09/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**6S (Far-source monitoring**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite welfare cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/9/A/12/AA1	JT2238	17A	N/A	N/A	8.0	10:15	8.0	11:15	8.0	12:15
23/9/A/12/AA2	JT2239	17B	N/A	N/A	8.0	10:17	8.0	11:18	8.0	12:17
23/9/A/12/AA3	JT2240	17C	N/A	N/A	8.0	10:20	8.0	11:21	8.0	12:20
23/9/A/12/AA4	JT2241	17D	N/A	N/A	8.0	10:22	8.0	11:23	8.0	12:22
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

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Site Air Test Certificate Ref:	ST/23/10/10/AA1	Date of Issue:	10/10/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Andy Alker	Signed by (APEC)		Date	10/10/2023

Air Testing

Purpose of Test

Far-Source Sampling	X	Near-Source sampling		Leak Test		Background Test		Reassurance Test	

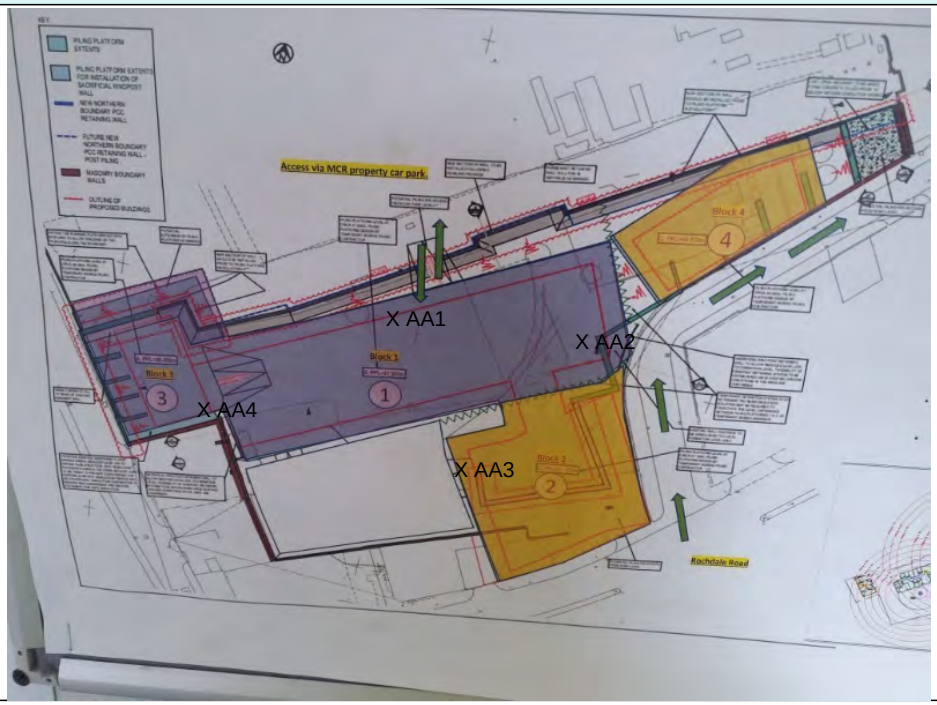
Site Photograph and Additional Site Information



Area Assessed:	Chartrange site perimeter
Description of reason for test (including the nature and extent of ACMs removed):	Far source airtest to measure airborne fibre levels during the ongoing ground works on the chartrange site

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/10/10/AA1	NA

Sample Area Layout Plan



APEC ENVIRONMENTAL

SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/10/10/AA1	Date of Issue:	10/10/2023	Page 2 of 4

Air Test Summary

Field Blank No.	23/10/A/10/AA5	Fibres	-	Fields	-	Head No.	17E

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/10/A/10/AA1	Site perimeter	960	1	200	0	<0.005	0.005
23/10/A/10/AA2	Site perimeter	968	1	198	0	<0.005	0.005
23/10/A/10/AA3	Site perimeter	960	2	200	0.001	<0.005	0.005
23/10/A/10/AA4	Site perimeter	968	1	198	0	<0.005	0.005
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The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Dry sunny day; no breeze; ground is wet.

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

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Site Air Test Certificate Ref:	ST/23/10/10/AA1	Date of Issue:	10/10/2023	Page 3 of 4

Photographs

Ongoing site Works



Ongoing site Works



Ongoing site Works



Ongoing site Works



Sampling pump (sample ref: 23/10/A/10/AA1)



Sampling pump (sample ref: 23/10/A/10/AA2)



Sampling pump (sample ref: 23/10/A/10/AA3)



Sampling pump (sample ref: 23/10/A/10/AA4)



SITE AIR TEST CERTIFICATE

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Site Air Test Certificate Ref:	ST/23/10/10/AA1	Date of Issue:	10/10/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

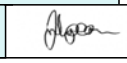
Site:	Client:	Contractor:
87 Rochdale Road Manchester Lancashire M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results in the Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02
5. Analysis has been undertaken in accordance with methods described in HSG248, The Analysts guide. The reported results are based on a count of all respirable fibres sampled.

APEC Analytical Equipment

Flow Meter	FM48	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW18	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM19	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC22	**No. of bands seen**	5	**Microscope Number**	M10
Samples counted by (APEC Analyst)	Andy Alker	**Signed**		**Date Analysed**	10/10/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**6S (Far-source monitoring**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Onsite welfare cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/10/A/10/AA1	JT2238	17A	N/A	N/A	8.0	09:30	8.0	10:29	8.0	11:30
23/10/A/10/AA2	JT2239	17B	N/A	N/A	8.0	09:31	8.0	10:32	8.0	11:32
23/10/A/10/AA3	JT2240	17C	N/A	N/A	8.0	09:33	8.0	10:35	8.0	11:33
23/10/A/10/AA4	JT2241	17D	N/A	N/A	8.0	09:34	8.0	10:36	8.0	11:35
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Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		~~**Signed by (APEC)**~~		~~**Date:**~~	
~~**Trainee**~~		~~**Signed by (APEC)**~~		~~**Date:**~~	

SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

Email: info@apecuk.com Web: www.apecuk.com

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

UKAS TESTING 2136

Access this document online via your asbestos management portal: www.apecuk.org/Chartrange

Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 1 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: NA	**Contact:** James Kennedy	**Contact:** N/A

Samples taken by (APEC)

Analyst	Greg Derrig	Signed by (APEC)		Date	23/08/2023

Air Testing

Purpose of Test

Far-Source Sampling		Near-Source sampling	X	Leak Test		Background Test		Reassurance Test	

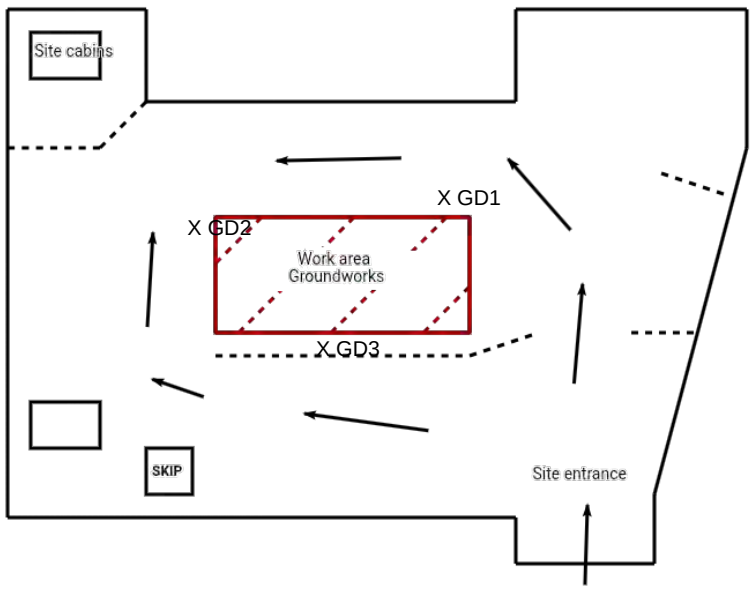
Site Photograph and Additional Site Information



Area Assessed:	External land undergoing excavation/groundwork
Description of reason for test (including the nature and extent of ACMs removed):	near source air monitoring to external land during excavation of below ground structures.

Site Specific Risk Assessment:	Project Information Sheet (if used):
RA/23/8/23/GD1	-

Sample Area Layout Plan



APEC ENVIRONMENTAL

SITE AIR TEST CERTIFICATE

Email: info@apecuk.com Web: www.apecuk.com

UKAS TESTING 2136

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

Access this document online via your asbestos management portal: www.apecuk.org/Chartrange

Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 2 of 4

Air Test Summary

Field Blank No.	23/8/A/23/GD4	Fibres	-	Fields	-	Head No.	4D

Sample Number	Sample Location and Description	Sample Volume (l)	Fibres	Fields	Calculated Concentration (f/ml)	Reported Concentration (f/ml)	Limit of Quantification (f/ml)
23/8/A/23/GD1	Adjacent to Works	480	3	200	0.002	<0.010	0.010
23/8/A/23/GD2	Adjacent to Works	488	1½	197	0.001	<0.010	0.010
23/8/A/23/GD3	Adjacent to Works	488	2½	197	0.001	<0.010	0.010
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-

The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:
N = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
d = measured diameter of Walton Beckett graticule

Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Overcast; breezy

Findings of Testing and Analysis

The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary	✓
One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative	

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

Access this document online via your asbestos management portal: www.apecuk.org/Chartrange

Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 3 of 4

Photographs

Land Under Excavation



Photograph 2

Photograph 3

Photograph 4

Sampling pump (sample ref: 23/8/A/23/GD1)



Sampling pump (sample ref: 23/8/A/23/GD2)



Sampling pump (sample ref: 23/8/A/23/GD3)



SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

Email: info@apecuk.com Web: www.apecuk.com

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

UKAS TESTING 2136

Access this document online via your asbestos management portal: www.apecuk.org/Chartrange

Site Air Test Certificate Ref:	ST/23/8/23/GD1	Date of Issue:	23/08/2023	Page 4 of 4

Note: Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

Site:	Client:	Contractor:
87 Rochdale Road Manchester M4 4HY	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ	Chartrange Chartrange Wharf Street Dukinfield Cheshire SK16 4NJ
Contact: N/A	**Contact:** James Kennedy	**Contact:** N/A

Appendix 1 - Additional Air Test Information

Notes:

1. This information supplements the air test results found on page 2 of the Site Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02

APEC Analytical Equipment

Flow Meter	FM53	**Barometer**	N/A	**Thermometer**	N/A	**Stop Watch**	SW34	**Effective filter diameter (mm)**	22.60
Stage Micrometer No	SM21	**Measured Graticule dia.**	100	**HSE / NPL Test Slide No.**	PC26	**No. of bands seen**	5	**Microscope Number**	APM20
Samples counted by (APEC Analyst)	Greg Derrig	**Signed**		**Date Analysed**	23/08/2023	**Analysis Location (Site / Lab)**	Site		
Test Protocol:	**5S (Near-source monitoring)**					**Checked by:**	N/A		
Suitability of Counting Location	**Location assessed and adequate (if not record details in Analyst Comments)**	✓	**Counting Location (describe)**	Site cabin					

Sample Number	Pump No.	Head No.	Temp	Pressure	Start Flow	Start Time	Interim Flow	Interim Time	End Flow	End Time
23/8/A/23/GD1	JT2234	4A	N/A	N/A	8.0	09:36	-	--:--	8.0	10:36
23/8/A/23/GD2	JT2235	4B	N/A	N/A	8.0	09:37	-	--:--	8.0	10:38
23/8/A/23/GD3	JT2236	4C	N/A	N/A	8.0	09:39	-	--:--	8.0	10:40
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-

Analysts in Training

To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.

Trainer / Lead		**~~Signed by (APEC)~~**		**~~Date:~~**	
~~Trainee~~		**~~Signed by (APEC)~~**		**~~Date:~~**	

Appendix F – Asbestos in Soils Validation Testing

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/07708
Issue Number: 1 S1 **Date:** 16 August, 2023

Client:
Chartrange Ltd
Wharf Street
Dukinfield
Cheshire
SK16 4NJ

Project Manager: Paul Brady
Project Name: Rochadale Road
Project Ref: Not specified
Order No: CR/036/42862
Date Samples Received: 01/08/23
Date Instructions Received: 02/08/23
Date Analysis Completed: 16/08/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/07708

Client Project Name: Rochadale Road

Client Project Ref: Not specified

Lab Sample ID	23/07708/1	23/07708/2	23/07708/3	23/07708/4	23/07708/5	23/07708/6	23/07708/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP 111 NF	TP 111 EF	TP 111 SF	TP 111 WF	TP 111 BASE	TP 113 NF	TP 113 EF			
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4A	4A	4A	4A	4A	4A	4A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 23/07708

Client Project Name: Rochadale Road

Client Project Ref: Not specified

Lab Sample ID	23/07708/8	23/07708/9	23/07708/10					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP 113 SF	TP 113 WF	TP 113 BASE							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4A	4A	4AE							
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD							A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-							A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A							A-T-045

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25ºC / 11550µS/cm @ 20ºC fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Chartrange Ltd, Wharf Street, Dukinfield, Cheshire, SK16 4NJ

Project No: 23/07708

Date Received: 02/08/2023 (am)

Project: Rochadale Road

Cool Box Temperatures (°C): 18.5

Clients Project No:

Lab Sample ID	23/07708/1	23/07708/2	23/07708/3	23/07708/4	23/07708/5	23/07708/6	23/07708/7	23/07708/8	23/07708/9	23/07708/10
Client Sample No										
Client Sample ID/Depth	TP 111 NF	TP 111 EF	TP 111 SF	TP 111 WF	TP 111 BASE	TP 113 NF	TP 113 EF	TP 113 SF	TP 113 WF	TP 113 BASE
Date Sampled										
Deviation Code										
E (no date)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Key
E (no date) *No sampling date provided (all results affected if not provided)*

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/07708/1	23/07708/2	23/07708/3	23/07708/4	23/07708/5	23/07708/6	23/07708/7	23/07708/8	23/07708/9	23/07708/10	23/07708/11	23/07708/12
Client Sample No												
Client Sample ID/Depth	TP 111 NF	TP 111 EF	TP 111 SF	TP 111 WF	TP 111 BASE	TP 113 NF	TP 113 EF	TP 113 SF	TP 113 WF	TP 113 BASE	SP1	SP2
Date Sampled												
A-T-019s											10/08/2023	10/08/2023
A-T-044											16/08/2023	16/08/2023
A-T-045	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Appendix G – Waste Transfer Notes

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

CONSIGNEE'S COPY [redacted] (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/00002

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

Job No.	
WAG No.	
Weighbridge Ticket No.	22655

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): MV18UDM

Signature

Date 27/07/2023 Time

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: Mr Darrell Cullen

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd,
1 George Court
Altrincham
WA14 5UA

Signature D Cullen

Date 27/07/2023 Time 1430

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	5360KG	✓	D5

1 I received this waste at the address given in A4 on: Date 27/07/2023 Time 1527

2 Vehicle registration no. (or mode of transport if not road): MV18UDM

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

DP3034YR

authorises the management of the waste described in B at the address given in A4.

Name: DAVE ROWLOW

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Veolia Whitemoss Landfill Ltd,
Whitemoss Road South
Skelmersdale, WN8 9TH
Permit No. DP3034YR

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

Signature D Rowlow

Date 27/07/2023 Time 1537

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

WML 04947

Environment Agency

[redacted]Y/CARRIER'S COPY/[redacted] (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/00001

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

Job No.

WAC No.

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Weighbridge Ticket No. 22654

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): MV23 WVX

Signature A BROWN

Date 27/07/2023 Time 1300

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: Mr Darrell Cullen

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd,
1 George Court,
Altrincham
WA14 5UA

Signature D. Cullen

Date 27/07/2023 Time 1300

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	5280KG	✓	D05

1 I received this waste at the address given in A4 on: Date 27/07/2023 Time 1523

2 Vehicle registration no. (or mode of transport if not road): MV23 WVX

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

DP3034YR

authorises the management of the waste described in B at the address given in A4.

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

c/o Whitemoss Landfill Ltd,
Whitemoss Road South
Skelmersdale, WN8 9TH
Permit No. DP3034YR

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

Signature D Boulton

Date 27/07/2023 Time 1535

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

[redacted]/CARRIER'S COPY/[redacted] (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/0006

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): MV23 WVX

Signature

Date 06/09/2023 Time 0930

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: PAUL McGOFF

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

MCGOFF CONSTRUCTION
1 ST GEORGES COURT
ALTRINCHAM
WA14 5UA

Signature

Date 06/09/2023 Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	14600KG	✓	D5

1 I received this waste at the address given in A4 on: Date 06/09/2023 Time 10:30

2 Vehicle registration no. (or mode of transport if not road): MV23 WVX

3 Where waste is rejected please provide details:

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

I certify that waste management licence/permit/authorised exemption no(s).

DP3334YR

authorises the management of the waste described in B at the address given in A4.

Signature

Date 06/09/2023 Time

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

[redacted]/CARRIER'S COPY/[redacted] (Delete as appropriate)

PART A Notification details

1 Consignment note code: R O C H D A / 0 0 0 0 7

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 4 3 . 1 2 / 0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	1 7 0 5 0 3	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): P421 KPA

Signature [signature]

Date 0 6 0 9 2 0 2 3 Time 0 9 3 1

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: PAUL McGOFF

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

MCGOFF CONSTRUCTION
1ST GEORGES COURT
ALTRINCHAM
WA14 5UA

Signature [signature]

Date 0 6 0 9 2 0 2 3 Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	15780KG	✓	D05

1 I received this waste at the address given in A4 on: Date 0 6 0 9 2 0 2 3 Time 1 0 4 8

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details: P421 KPA

Name: [redacted]

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

I certify that waste management licence/permit/authorised exemption no(s).

DP3034RL

authorises the management of the waste described in B at the address given in A4.

Signature [signature]

Date 0 6 0 9 2 0 2 3 Time 0 9 4 9

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

~~CONSIGNEE'S COPY~~ /CARRIER'S COPY/ ~~CONSIGNOR'S COPY~~ (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/00005

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road):

P421 KPA

Signature

Date 04/09/2023 Time

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: PAUL McGOW

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

McGOFF CONSTRUCTION
1 ST. GEORGES COURT
ALTRINCHAM
WA14 5UA

Signature

Date 04/09/2023 Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/~~rejected~~	Waste management operation (R or D code)
170503	15520KG	✓	D05

1 I received this waste at the address given in A4 on: Date 04/09/2023 Time 1550

2 Vehicle registration no. (or mode of transport if not road):

P421 KPA

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

DP3034YR

authorises the management of the waste described in B at the address given in A4.

Name: [illegible]

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

Signature

Date 04/09/23 Time 1650

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

~~CONSIGNEE'S COPY~~ / CARRIER'S COPY / ~~CONSIGNOR'S COPY~~ (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/00004

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): PJ17 YNX

Signature L. Bowman

Date 04/09/2023 Time 13:05

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: PAUL McGOFF

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

McGOFF CONSTRUCTION
1 ST GEORGES COURT
ALTRINCHAM
WA14 5UA

Signature

Date 04/09/2023 Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	10180 KG	✓	R13

1 I received this waste at the address given in A4 on: Date 04/09/2023 Time 14:15

2 Vehicle registration no. (or mode of transport if not road): PJ17 YNX

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s). EP3034YR

authorises the management of the waste described in B at the address given in A4.

Name: DAVE ROWLOCK

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

Signature

Date 04/09/2023 Time 14:42

Form HWCN01v051

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

~~CONSIGNEE'S COPY~~ / CARRIER'S COPY / ~~CONSIGNOR'S COPY~~ (Delete as appropriate)

PART A Notification details

1 Consignment note code: ROCHDA/00003

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Rochdale Road, Greater Manchester, M4 4HY

3 Premises code (where applicable):

4 The waste will be taken to (name, address and postcode):

Whitemoss Landfill, Whitemoss Road South, Skelmersdale, WN8 9TH

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction Ltd, 1 St Georges Ct, Broadheath, Altrincham, WA14 5UA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Excavation

2 SIC for the process giving rise to the waste: 43.12/0

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Asbestos containing materials	170503	20000 KG Approx	Asbestos		Solid	HP7	1x8 Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: Chartrange Enviro

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

2 Carrier registration no./reason for exemption: CBDU177542

3 Vehicle registration no. (or mode of transport, if not road): P42 1KPA

Signature

Date 04/09/2023 Time 1205

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: Paul McCoy

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

McGoff Construction
1 St Georges Court
Altrincham
WA14 5UA

Signature

Date 04/09/2023 Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	10.12 (T)	—	D5

1 I received this waste at the address given in A4 on: Date 04/09/2023 Time 1300

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details: P42 1KPA

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Chartrange Enviro Ltd, Wharf Street, Dukinfield, Manchester, SK16 4NJ

I certify that waste management licence/permit/authorised exemption no(s).

P3034YR

authorises the management of the waste described in B at the address given in A4.

Signature

Date 04/09/2023 Time 1315

Appendix H – Hotspot Removal Validation Testing

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/07864
Issue Number: 1 **Date:** 16 August, 2023

Client: Chartrange Ltd
Wharf Street
Dukinfield
Cheshire
SK16 4NJ

Project Manager: Paul Brady
Project Name: Rochadale Road
Project Ref: Not specified
Order No: CR/036/42896
Date Samples Received: 04/08/23
Date Instructions Received: 07/08/23
Date Analysis Completed: 16/08/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/07864

Client Project Name: Rochadale Road

Client Project Ref: Not specified

Lab Sample ID	23/07864/1	23/07864/2	23/07864/3	23/07864/4	23/07864/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP109 NF	TP109 EF	TP109 WF	TP109 SF	TP109 Base					
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AE	4ABE	4ABE	4ABE	4AE					
% Stones >10mm$_A$	34.2	16.9	13.9	8.3	18.3			% w/w	0.1	A-T-044

Envirolab Job Number: 23/07864

Client Project Name: Rochadale Road

Client Project Ref: Not specified

Lab Sample ID	23/07864/1	23/07864/2	23/07864/3	23/07864/4	23/07864/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP109 NF	TP109 EF	TP109 WF	TP109 SF	TP109 Base					
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AE	4ABE	4ABE	4ABE	4AE					
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.52	0.56	0.24	0.19	0.32			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.09	0.17	0.08	0.03	0.07			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.74	1.08	0.47	0.34	0.60			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.25	1.95	1.49	0.60	0.84			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.05	1.65	1.56	0.57	0.66			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.20	1.92	1.75	0.58	0.68			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.65	0.89	0.83	0.28	0.27			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.51	0.76	0.71	0.25	0.30			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	1.42	2.03	1.63	0.73	0.90			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.15	0.22	0.20	0.06	0.07			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	2.83	4.56	2.61	1.43	2.23			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.47	0.63	0.23	0.17	0.40			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.80	1.08	1.12	0.34	0.34			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.54	0.83	0.26	0.26	0.46			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	2.90	4.74	1.84	1.55	2.80			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	2.50	4.17	2.59	1.35	2.04			mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	17.6	27.2	17.6	8.73	13			mg/kg	0.01	A-T-019s

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25ºC / 11550µS/cm @ 20ºC fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Chartrange Ltd, Wharf Street, Dukinfield, Cheshire, SK16 4NJ

Project No: 23/07864

Date Received: 07/08/2023 (am)

Project: Rochadale Road

Cool Box Temperatures (°C): 19.2

Clients Project No:

Lab Sample ID	23/07864/1	23/07864/2	23/07864/3	23/07864/4	23/07864/5
Client Sample No					
Client Sample ID/Depth	TP109 NF	TP109 EF	TP109 WF	TP109 SF	TP109 Base
Date Sampled					
Deviation Code					
E (no date)	✓	✓	✓	✓	✓

Key
E (no date) *No sampling date provided (all results affected if not provided)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/07864/1	23/07864/2	23/07864/3	23/07864/4	23/07864/5
Client Sample No					
Client Sample ID/Depth	TP109 NF	TP109 EF	TP109 WF	TP109 SF	TP109 Base
Date Sampled					
A-T-019s	16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
A-T-044	10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/09039
Issue Number: 1 **Date:** 22 September, 2023

Client: Chartrange Ltd
Wharf Street
Dukinfield
Cheshire
SK16 4NJ

Project Manager: Paul Brady
Project Name: Rochdale Road
Project Ref: N/A
Order No: CR/036/43253
Date Samples Received: 08/09/23
Date Instructions Received: 11/09/23
Date Analysis Completed: 22/09/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/1	23/09039/2	23/09039/3	23/09039/4	23/09039/5	23/09039/6	23/09039/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP115 NF	TP115 EF	TP115 SF	TP115 WF	TP115 B	BH104 NF	BH104 EF			
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	2ABE	2AB	2AB	2AB	2AB	2AE	2AB			
% Stones >10mm$_A$	45.4	34.7	36.6	34.7	39.5	22.6	30.9	% w/w	0.1	A-T-044
Arsenic$_D^{M\#}$	6	12	8	8	7	29	-	mg/kg	1	A-T-024s
Cadmium$_D^{M\#}$	0.9	1.0	1.1	1.1	0.9	1.3	-	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	43	48	58	48	45	80	-	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	13	16	16	16	16	20	-	mg/kg	1	A-T-024s
Lead$_D^{M\#}$	174	193	183	232	241	83	-	mg/kg	1	A-T-024s
Mercury$_D$	0.82	0.96	1.37	1.06	0.91	1.49	-	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	13	16	18	16	16	140	-	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1	<1	<1	<1	-	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	96	111	94	107	91	80	-	mg/kg	5	A-T-024s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/1	23/09039/2	23/09039/3	23/09039/4	23/09039/5	23/09039/6	23/09039/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP115 NF	TP115 EF	TP115 SF	TP115 WF	TP115 B	BH104 NF	BH104 EF			
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	2ABE	2AB	2AB	2AB	2AB	2AE	2AB			
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.77	0.69	0.78	1.15	0.66	0.90	2.73	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.25	0.22	0.19	0.38	0.18	0.28	0.22	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	1.50	1.47	1.54	2.37	1.42	1.98	2.63	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	3.11	3.63	3.76	4.42	2.95	4.50	4.85	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	2.28	2.80	2.79	3.25	2.34	3.23	3.27	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	2.38	3.50	3.46	3.87	2.76	3.86	4.08	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	1.26	1.52	1.48	1.74	1.48	1.75	1.83	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	1.40	1.68	1.44	1.79	1.18	1.85	2.05	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	3.15	3.80	3.80	4.46	3.06	4.54	4.88	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.25	0.28	0.28	0.34	0.23	0.35	0.30	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	7.94	8.73	8.92	10.5	6.63	10.9	11.7	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.81	0.74	0.79	1.38	0.67	0.94	2.13	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	1.48	1.75	1.73	2.03	1.70	2.13	2.06	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	1.45	1.09	1.02	3.58	0.91	1.89	2.45	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	6.13	5.79	5.95	8.46	5.15	7.92	11.2	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	7.40	8.18	8.19	9.71	6.21	9.84	10.9	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	41.6	45.9	46.1	59.4	37.5	56.9	67.3	mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/8	23/09039/9	23/09039/10	23/09039/11	23/09039/12	23/09039/13	23/09039/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH104 SF	BH104 WF	BH104 B	TP114 NF	TP114 EF	TP114 SF	TP114 WF			
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	2AB	2A	2ABE	2AB	2AB	2AB	2AB			
% Stones >10mm$_A$	27.4	22.5	16.4	18.8	27.0	39.1	24.9	% w/w	0.1	A-T-044
Arsenic$_D^{M\#}$	-	-	-	11	11	7	9	mg/kg	1	A-T-024s
Cadmium$_D^{M\#}$	-	-	-	1.5	1.6	1.0	1.3	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	-	-	-	63	87	66	53	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	-	-	-	20	17	18	17	mg/kg	1	A-T-024s
Lead$_D^{M\#}$	-	-	-	243	220	206	208	mg/kg	1	A-T-024s
Mercury$_D$	-	-	-	2.66	0.99	0.96	1.34	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	-	-	-	22	24	19	20	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	-	-	-	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	-	-	-	130	122	110	133	mg/kg	5	A-T-024s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/8	23/09039/9	23/09039/10	23/09039/11	23/09039/12	23/09039/13	23/09039/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH104 SF	BH104 WF	BH104 B	TP114 NF	TP114 EF	TP114 SF	TP114 WF			
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	2AB	2A	2ABE	2AB	2AB	2AB	2AB			
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.85	0.74	0.74	-	-	-	-	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.27	0.17	0.22	-	-	-	-	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	1.73	1.33	1.51	-	-	-	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	3.82	3.20	4.20	-	-	-	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	2.85	2.53	3.22	-	-	-	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	3.45	2.96	3.61	-	-	-	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	1.72	1.39	1.89	-	-	-	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	1.67	1.50	1.75	-	-	-	-	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	3.87	3.36	4.23	-	-	-	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.27	0.25	0.35	-	-	-	-	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	9.11	7.72	9.69	-	-	-	-	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.91	0.62	0.70	-	-	-	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	1.94	1.59	2.09	-	-	-	-	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	1.48	0.51	0.72	-	-	-	-	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	6.69	5.06	5.99	-	-	-	-	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	8.54	6.91	8.99	-	-	-	-	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	49.2	39.8	49.9	-	-	-	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/15	23/09039/16	23/09039/17	23/09039/18	23/09039/19	23/09039/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP114 B	BH102 NF	BH102 EF	BH102 SW	BH102 WF	BH102 B				
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	2ADE	2AB	2ABE	2AB	2ADE	2AB				
% Stones >10mm$_A$	24.1	19.6	5.1	25.7	10.5	18.5		% w/w	0.1	A-T-044
Arsenic$_D^{M\#}$	9	-	-	-	-	-		mg/kg	1	A-T-024s
Cadmium$_D^{M\#}$	1.3	-	-	-	-	-		mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	50	-	-	-	-	-		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	19	-	-	-	-	-		mg/kg	1	A-T-024s
Lead$_D^{M\#}$	209	-	-	-	-	-		mg/kg	1	A-T-024s
Mercury$_D$	1.02	-	-	-	-	-		mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	20	-	-	-	-	-		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	-	-	-	-	-		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	119	-	-	-	-	-		mg/kg	5	A-T-024s
1,3,5-Trimethylbenzene$_A^{\#}$	-	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
1,2,4-Trimethylbenzene$_A^{\#}$	-	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
2,4-Dichlorophenol$_A$	-	<100	<100	<100	<100	<100		µg/kg	100	A-T-052s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/15	23/09039/16	23/09039/17	23/09039/18	23/09039/19	23/09039/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP114 B	BH102 NF	BH102 EF	BH102 SW	BH102 WF	BH102 B				
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	2ADE	2AB	2ABE	2AB	2ADE	2AB				
PAH-16MS										
Acenaphthene$_A^{M\#}$	-	0.92	1.42	1.05	1.75	1.71		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	-	0.21	0.37	0.32	0.40	0.29		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	-	1.77	3.51	2.16	3.35	2.95		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	-	4.25	6.80	4.98	6.11	5.48		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	-	3.25	4.82	3.66	4.22	3.85		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	-	3.85	5.37	4.43	4.61	4.65		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	-	1.81	2.82	2.10	2.28	1.93		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	-	2.00	3.01	2.11	2.49	2.43		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	-	4.33	6.58	4.90	6.16	5.57		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	-	0.34	0.50	0.39	0.46	0.40		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	-	10.3	15.9	11.6	15.4	13		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	-	0.88	1.53	1.10	1.89	1.67		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	-	2.02	3.26	2.39	2.55	2.22		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	-	1.23	1.27	1.79	5.01	3.00		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	-	6.96	10.8	8.22	13.8	11.4		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	-	9.63	14.1	10.8	14.2	12.1		mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	-	53.8	82.1	62	84.7	72.7		mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/09039

Client Project Name: Rochdale Road

Client Project Ref: N/A

Lab Sample ID	23/09039/15	23/09039/16	23/09039/17	23/09039/18	23/09039/19	23/09039/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP114 B	BH102 NF	BH102 EF	BH102 SW	BH102 WF	BH102 B				
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	2ADE	2AB	2ABE	2AB	2ADE	2AB				
TPH CWG with Clean Up										
Ali >C5-C6$_A$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	-	2	1	2	1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	-	2	1	2	2	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	-	6	4	3	6	4		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	-	10	8	7	10	7		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	-	74	84	63	91	79		mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	93	98	77	110	92		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	-	3	2	2	2	2		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	-	25	5	5	12	7		mg/kg	1	A-T-055s
Aro >C12-C16$_A^{M\#}$	-	73	41	22	52	31		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	-	233	186	97	175	122		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	-	507	424	276	450	327		mg/kg	1	A-T-055s
Total Aromatics$_A$	-	840	659	401	691	490		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35)$_A$	-	929	757	478	800	582		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	-	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25ºC / 11550µS/cm @ 20ºC fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Chartrange Ltd, Wharf Street, Dukinfield, Cheshire, SK16 4NJ

Project No: 23/09039

Date Received: 11/09/2023 (am)

Project: Rochdale Road

Cool Box Temperatures (°C): 22.4

Clients Project No: N/A

Lab Sample ID	23/09039/1	23/09039/2	23/09039/3	23/09039/4	23/09039/5	23/09039/6	23/09039/7	23/09039/8	23/09039/9	23/09039/10	23/09039/11	23/09039/12
Client Sample No												
Client Sample ID/Depth	TP115 NF	TP115 EF	TP115 SF	TP115 WF	TP115 B	BH104 NF	BH104 EF	BH104 SF	BH104 WF	BH104 B	TP114 NF	TP114 EF
Date Sampled												
Deviation Code												
B1 (no VPH)												
D (no glass)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
E (no date)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	23/09039/13	23/09039/14	23/09039/15	23/09039/16	23/09039/17	23/09039/18	23/09039/19	23/09039/20
Client Sample No								
Client Sample ID/Depth	TP114 SF	TP114 WF	TP114 B	BH102 NF	BH102 EF	BH102 SW	BH102 WF	BH102 B
Date Sampled								
Deviation Code								
B1 (no VPH)				✓	✓	✓	✓	✓
D (no glass)				✓	✓	✓	✓	✓
E (no date)	✓	✓	✓	✓	✓	✓	✓	✓

Key

B1 (no VPH)	*Separate container not supplied for VPH/BTEX analysis*
D (no glass)	*Glass container not provided for extractable organics analysis*
E (no date)	*No sampling date provided (all results affected if not provided)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/09039/1	23/09039/2	23/09039/3	23/09039/4	23/09039/5	23/09039/6	23/09039/7	23/09039/8	23/09039/9	23/09039/10	23/09039/11	23/09039/12
Client Sample No												
Client Sample ID/Depth	TP115 NF	TP115 EF	TP115 SF	TP115 WF	TP115 B	BH104 NF	BH104 EF	BH104 SF	BH104 WF	BH104 B	TP114 NF	TP114 EF
Date Sampled												
A-T-006s												
A-T-019s	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023		
A-T-022s												
A-T-024s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023					22/09/2023	22/09/2023
A-T-044	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
A-T-052s												
A-T-055s												
Calc-As Recd												

Lab Sample ID	23/09039/13	23/09039/14	23/09039/15	23/09039/16	23/09039/17	23/09039/18	23/09039/19	23/09039/20
Client Sample No								
Client Sample ID/Depth	TP114 SF	TP114 WF	TP114 B	BH102 NF	BH102 EF	BH102 SW	BH102 WF	BH102 B
Date Sampled								
A-T-006s				14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
A-T-019s				20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
A-T-022s				14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
A-T-024s	22/09/2023	22/09/2023	22/09/2023					
A-T-044	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
A-T-052s				18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
A-T-055s				14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calc-As Recd				14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Appendix I – Recycled 6F2 Validation Testing

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/10000
Issue Number: 1 **Date:** 24 October, 2023

Client: Chartrange Ltd
Wharf Street
Dukinfield
Cheshire
SK16 4NJ

Project Manager: Paul Brady
Project Name: Rochdale Road
Project Ref: Not specified
Order No: CR/036/43507
Date Samples Received: 10/10/23
Date Instructions Received: 10/10/23
Date Analysis Completed: 24/10/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/10000

Client Project Name: Rochdale Road

Client Project Ref: Not specified

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3					Units	Limit of Detection	Method ref
Client Sample No	1	2	3							
Client Sample ID	6F2	6F2	6F2							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4AE	4AE	4AE							
% Stones >10mm$_A$	19.2	11.0	20.4					% w/w	0.1	A-T-044
Cyanide (total)$_A^{M\#}$	<1	<1	<1					mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2					mg/kg	0.2	A-T-050s
Antimony$_D$	<5	<5	<5					mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	3	5	3					mg/kg	1	A-T-024s
Barium$_D$	96	125	96					mg/kg	1	A-T-024s
Beryllium$_D$	0.6	0.7	<0.5					mg/kg	0.5	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0					mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	<0.5	0.5	<0.5					mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	20	26	18					mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	15	18	14					mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1					mg/kg	1	A-T-040s
Lead$_D^{M\#}$	37	50	36					mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17					mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1					mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	14	16	12					mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1					mg/kg	1	A-T-024s
Vanadium$_D^{M\#}$	16	21	16					mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	51	66	50					mg/kg	5	A-T-024s

Envirolab Job Number: 23/10000

Client Project Name: Rochdale Road

Client Project Ref: Not specified

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3					Units	Limit of Detection	Method ref
Client Sample No	1	2	3							
Client Sample ID	6F2	6F2	6F2							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4AE	4AE	4AE							
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD							A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-							A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A							A-T-045

Envirolab Job Number: 23/10000

Client Project Name: Rochdale Road

Client Project Ref: Not specified

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3					Units	Limit of Detection	Method ref
Client Sample No	1	2	3							
Client Sample ID	6F2	6F2	6F2							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4AE	4AE	4AE							
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.40	0.53	0.63					mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.10	<0.10	<0.10					mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.76	0.88	1.09					mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.59	2.36	2.22					mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.14	1.76	1.67					mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.53	2.33	2.03					mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.61	0.84	0.75					mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.70	0.98	1.01					mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	1.63	2.26	2.20					mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.40	<0.40	<0.40					mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	3.39	4.60	4.34					mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.33	0.39	0.60					mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.70	0.97	0.86					mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.49	<0.30	1.76					mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	3.00^U	3.87^U	4.69^U					mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	2.93	4.03	3.97					mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	18.5	25.8	27.8					mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/10000

Client Project Name: Rochdale Road

Client Project Ref: Not specified

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3					Units	Limit of Detection	Method ref
Client Sample No	1	2	3							
Client Sample ID	6F2	6F2	6F2							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4AE	4AE	4AE							
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003					mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002					mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007					mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006					mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
Total Speciated PCB-$EC7_A^{M\#}$	<0.007	<0.007	<0.007					mg/kg	0.003	A-T-004s

Envirolab Job Number: 23/10000

Client Project Name: Rochdale Road

Client Project Ref: Not specified

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3					Units	Limit of Detection	Method ref
Client Sample No	1	2	3							
Client Sample ID	6F2	6F2	6F2							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	4AE	4AE	4AE							
TPH UKCWG with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1					mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1					mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	2	2					mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	3	4	4					mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	76	118	80					mg/kg	1	A-T-055s
Ali >C35-C44$_A$	73	155	72					mg/kg	1	A-T-055s
Total Aliphatics$_A$	153	279	158					mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	1	<1					mg/kg	1	A-T-055s
Aro >C10-C12$_A$	2	1	2					mg/kg	1	A-T-055s
Aro >C12-C16$_A^{M\#}$	10	8	7					mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	55	39	36					mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	147	146	138					mg/kg	1	A-T-055s
Aro >C35-C44$_A$	41	91	39					mg/kg	1	A-T-055s
Total Aromatics$_A$	255	286	222					mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	408	565	380					mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **six weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25ºC / 11550µS/cm @ 20ºC fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Chartrange Ltd, Wharf Street, Dukinfield, Cheshire, SK16 4NJ

Project: Rochdale Road

Clients Project No:

Project No: 23/10000

Date Received: 10/10/2023 (pm)

Cool Box Temperatures (°C): 16.0

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3
Client Sample No	1	2	3
Client Sample ID/Depth	6F2	6F2	6F2
Date Sampled			
Deviation Code			
E (no date)	✓	✓	✓

Key
E (no date) *No sampling date provided (all results affected if not provided)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	23/10000/1	23/10000/2	23/10000/3
Client Sample No	1	2	3
Client Sample ID/Depth	6F2	6F2	6F2
Date Sampled			
A-T-004s	13/10/2023	13/10/2023	13/10/2023
A-T-019s	18/10/2023	18/10/2023	18/10/2023
A-T-022s	18/10/2023	18/10/2023	18/10/2023
A-T-024s	24/10/2023	24/10/2023	24/10/2023
A-T-027s	20/10/2023	20/10/2023	20/10/2023
A-T-040s	20/10/2023	20/10/2023	20/10/2023
A-T-042sTCN	21/10/2023	21/10/2023	21/10/2023
A-T-044	24/10/2023	24/10/2023	24/10/2023
A-T-045	11/10/2023	11/10/2023	11/10/2023
A-T-050s	16/10/2023	16/10/2023	16/10/2023
A-T-055s	17/10/2023	17/10/2023	17/10/2023
Calc-As Recd	18/10/2023	18/10/2023	18/10/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Appendix J – Earthworks Drawings and EA Approval for DoWCoP



GENERAL NOTES

S2

P01

Status	Date	Description	By	Chk

Amendments

Project

ROCHDALE ROAD, MANCHESTER

Title

TEMPORARY WORKS

Client

CUT AND FILL AREA PLAN

Designed By	Checked By	ID
Drawn By	Date	Scales @ A1

Project - Originator - Volume - Level - Type - Role - Number

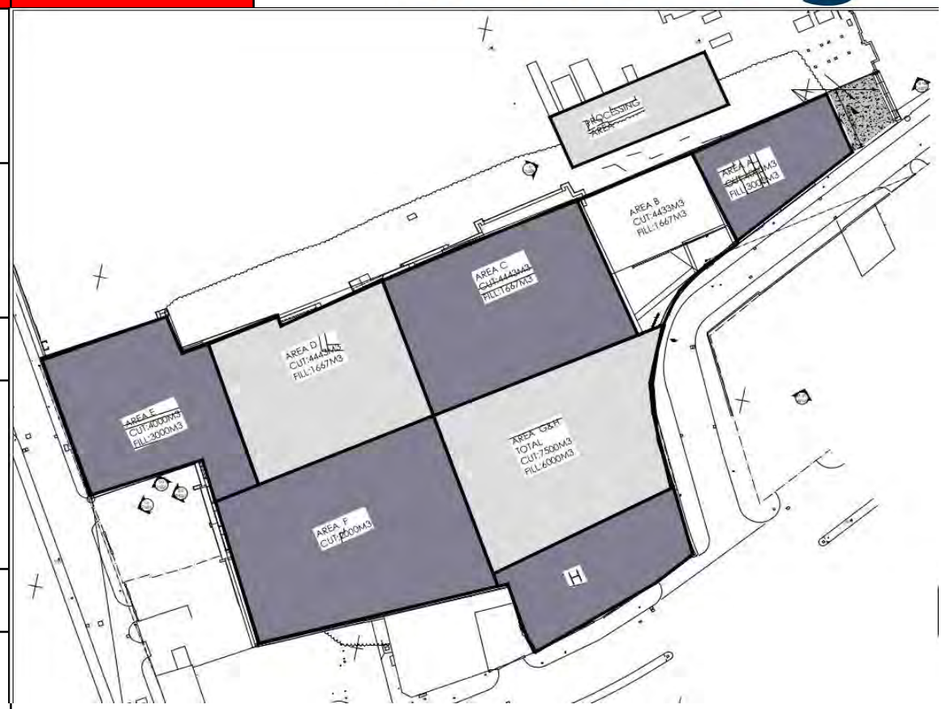
Revision

McGoff Construction, Rochdale Road Materials Management Plan

WEEK COMMENCEING	MATERIALS	MOVED FROM	MOVED TO	VOLUME (M3)	COMMENTS
24-Jul	Concrete Slabs & Below Ground Structures	C & B	F	4433	PROSSEED IN AREA F TO MAKE 6F2 TO INSTALL RAMP FROM G TO C
23-Jul	ACMs	TP111 & TP113&TP109	Whitemoss Land fill	16	ROCHDA/01,02
31-Jul	SITE PROCESSED 6F5	F	C & B	2000	INSTALL FROM FROM G TO C
31-Jul	TOP SOIL STRIP TO WALFARE AREA AND HAUL ROAD NOTH OF BUILDING FOOTPRINT	NORTH OF E,D &C	OFF SITE	405	WELFARE AREA
31-Aug	INSATLL SITE PROCESSED 6F5	Processing area	NORTH OF E,D &C	405	TEMP HAUL ROAD
31-Jul	Concrete Slabs & Below Ground Structures	C	Processing area	1672	
07-Aug	Concrete Slabs & Below Ground Structures	C	Processing area	2761	
07-Aug	Concrete Slabs & Below Ground Structures	D	Processing area	1896	
14-Aug	Concrete Slabs & Below Ground Structures	D	Processing area	1381	
21-Aug	Concrete Slabs & Below Ground Structures	D	Processing area	1156	
21-Aug	Concrete Slabs & Below Ground Structures	E	Processing area	4000	
28-Aug	Concrete Slabs & Below Ground Structures	G	Processing area	1350	
28-Aug	Concrete Slabs & Below Ground Structures	G	Processing area	2400	

Chartrange.

LOCATION PLAN



CUT- 30079M3

FILL -17000M3

REMOVAL OFF SITE - APROX 8000M3

APROX VOIDS 4000M3

04-Sep	Concrete Slabs & Below Ground Structures	H	Processing area	740	SLOW WORKS DUE TO ARCHIOLOGICAL TEAM ON SITE
04-Sep	Gas Works Waste	Contam Storage Area	Whitemoss Land fill	19	ROCHDA/03,04,05
06-Sep	Hot spots	TP114, TP115, BH104, BH102	Whitemoss Land fill	18	ROCHDA/06,07
11-Sep	Concrete Slabs & Below Ground Structures	H	Processing area	695	SLOW WORKS DUE TO ARCHIOLOGICAL TEAM ON SITE
11-Sep	Concrete Slabs & Below Ground Structures	H	Processing area	1175	SLOW WORKS DUE TO ARCHIOLOGICAL TEAM ON SITE
11-Sep	Concrete Slabs & Below Ground Structures	H	Processing area	1140	SLOW WORKS DUE TO ARCHIOLOGICAL TEAM ON SITE
18-Sep	Concrete Slabs & Below Ground Structures	B & A	Processing area	320	
18-Sep	Concrete Slabs & Below Ground Structures	A	Processing area	1050	
25-Sep	Concrete Slabs & Below Ground Structures	A	Processing area	1087	
02-Oct	Concrete Slabs & Below Ground Structures	A	Processing area	1103	
09-Oct	Concrete Slabs & Below Ground Structures	A	Processing area	440	
	MATERIALS	**MOVED FROM**	**MOVED TO**	**VOLUME (M3)**	**COMMENTS**
	CLASS A1 FILL	C,D	E	769	
	CLASS A1 FILL	B	D	1186	
	CLASS A1 FILL	F	E	1952	
	CLASS A1 FILL	H	G	987	
	CLASS A1 FILL	G	H	1355	
	CLASS A1 FILL	A	B	1478	
	CLASS A1 FILL	B	A	1548	
	CLASS A1 FILL	A	B	1725	
	SITE PROCESSED 6F2	Processing area	C & D	1349	
	SITE PROCESSED 6F2	Processing area	E	1315	
	SITE PROCESSED 6F2	Processing area	G & H	1097	
	SITE PROCESSED 6F2	Processing area	B	994	

	SITE PROCESSED 6F2	Processing area	F & A	1245	



GENERAL NOTES

ROCHDALE ROAD, MANCHESTER

TEMPORARY WORKS

Status	Date	Description	By	Chk
Amendments				

Project

Title

Client

FINAL PILING MAT LEVEL SURVEY

Designed By	Checked By	0
Drawn By	Date	Scales @ A1

Project - Originator - Volume - Level - Type - Role - Number | Revision



GENERAL NOTES

ROCHDALE ROAD, MANCHESTER

TEMPORARY WORKS

Status	Date	Description	By	Chk
Amendments				

Project

Title

Client

PROOF DIG LEVEL SURVEY

Designed By	Checked By	0
Drawn By	Date	Scales @ A1

Project - Originator - Volume - Level - Type - Role - Number | Revision

GeoEnvironmental

Richard Meredith <richard.meredith@geo-env.co.uk>

Development at Rochdale Road Machester, Planning Application ref 131708/FO/2021 Postcode M4 4HY - Waste Team No Objection to use of DoWCoP

5 messages

Richard Meredith <richard.meredith@geo-env.co.uk> 11 August 2023 at 13:51
To: GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk>

Hello Stephen - Many thanks for this.

Regards

Richard

Richard Meredith

Mobile: 07762 751411

www.geo-env.co.uk LinkedIn

GeoEnvironmental

[Quoted text hidden]

GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk> 11 August 2023 at 12:20
To: Richard Meredith <richard.meredith@geo-env.co.uk>

Good afternoon Richard

Thank you for informing us you intend to use the DoWCoP for materials re-use on this site, providing that the DoWCoP is followed in full we have no objections to materials use, in accordance with our Regulatory Position Statement.

Materials not used in accordance with the DoWCoP process in full may be deemed waste and will require a relevant permit for deposit. A formal Declaration must be submitted by a Qualified Person **before** any use of materials on site or transfer is permitted.

The Qualified Person should be aware that based on our records the Environment Agency has reviewed land quality documents associated with this development in respect of controlled waters through our enhanced advice and guidance scheme for planning..

We have identified to the customer, at that time, that we have no objection to the development and agreed with the remedial strategy which was proposed.

Kind regards

Stephen Bostock

The Waste Enquiries Helpdesk Team
Environment Agency | Richard Fairclough House, Knutsford Road, Warrington, WA4 1HT

GMMCWasteEnquiries@environment-agency.gov.uk
Environment incident hotline (24/7) | 0800 80 70 60
General Enquiries | 03708 506 506

From: Richard Meredith <richard.meredith@geo-env.co.uk>
Sent: 25 July 2023 11:15
To: GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk>
Cc: Paul Brady <paul.brady@chartrange.com>; James Kennedy <james.kennedy@chartrange.com>
Subject: Development at Rochdale Road Machester, Planning Application ref 131708/FO/2021 Postcode M4 4HY - Waste Team No Objection to use of DoWCoP

Hello Environment Agency Waste Team, I hope you are well.

[Quoted text hidden]

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Richard Meredith <richard.meredith@geo-env.co.uk> 26 July 2023 at 12:26
To: GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk>

Thanks Stephen - I'll be happy to talk it through if needed - give me a call. I have copies of all the SI reports etc, but didn't want to swamp you with info.

Regards

Richard

Richard Meredith

Mobile: 07762 751411

www.geo-env.co.uk LinkedIn

[Quoted text hidden]

GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk> 26 July 2023 at 11:59
To: Richard Meredith <richard.meredith@geo-env.co.uk>

Hi Richard

This has been passed on to our technical team to consider all the documentation. We always have several of these on the go, so I reply will be forthcoming in about a week depending on how complex it is.

Kind regards

Stephen Bostock

The Waste Enquiries Helpdesk Team
Environment Agency | Richard Fairclough House, Knutsford Road, Warrington, WA4 1HT

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Richard Meredith <richard.meredith@geo-env.co.uk> 25 July 2023 at 11:15
To: GMMCWasteEnquiries GMMCWasteEnquiries <GMMCWasteEnquiries@environment-agency.gov.uk>
Cc: Paul Brady <paul.brady@chartrange.com>, James Kennedy <james.kennedy@chartrange.com>

Hello Environment Agency Waste Team, I hope you are well.

I am preparing a Materials management Plan for the above site. The proposed development is a residential apartment block and 2 blocks of 3 storey duplexes. The planning consent is attached.

Planning conditions relating to ground and contaminated land have been signed off by the local authority and the groundwater team at the EA - (see correspondence attached) - the remediation and earthworks activities will be carried out in line with the approved remediation strategy.

Please confirm you have no objection to the use of the Definition of Waste Code of Practice (DoWCoP) for the proposed re-use of site won made ground as fill at the site.

The development site location is shown in the attached figure.

Regards

Richard

Richard Meredith

Director - GeoEnvironmental Consulting Ltd

Mobile: 07762 751411

www.geo-env.co.uk LinkedIn

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4 attachments



01A Figure 1 location.jpeg
2369K

131708_FO_2021-DECISION_NOTICE-1892345.pdf
226K

dps1.pdf
25K

DECISION_NOTICE-2300881.pdf condition 7.pdf
118K